RECEIPT OF APPLICATION

DATE BROUGH	IT IN:	2128/0	2)	
CHECK #:	368	AMOUNT:	48500	
DATE TO BE CI	HECKED IN BY: _	312	100	Sub.
PROJECT/LOC	$\mathbf{ATION:} \underbrace{HR}$	e, wof 3	D Systems	Mag pulim

If application is found to be complete, the Community Development Department guarantees that the review comments for this application will be available for pick up at our office by the end of the day on 3/3/00 or we'll refund up to \$100 of your application fee.

This guarantee does not include late comments from outside review agencies. The date that the comments will be ready only applies if the application is accepted as complete. It is possible that additional items and/or fees may be required.

Items to be checked for on application form at time of submittal:

 \square Application type(s)

Acreage

Zoning

Location

 \Box Tax #(s)

Project description

Property owner w/ contact person, address & phone #

Developer w/ contact person, address & phone #

Representative w/ contact person, address & phone #

Signatures of property owner(s) & person completing application

	Date 12,13.2000
Applicant North Crest LLC	Phone
Location H Road west of 3D System	Tax Parcel # 2701-254-00-280
Proposal Preliminary Plan, North	Crest Industrial Park
Preapp Staff TSILL & RICK	14000 - 2000
Related Files MS - 197-031	10-021 - 800-000-20

Please read the following carefully and sign below. This original signed checklist must be returned with your submittal package.

It is recommended that the applicant inform the neighboring property owners/tenants of the proposal prior to the public hearing and preferably prior to submittal to the City.

WE RECOGNIZE that we, ourselves, or our representative(s) must be present at all hearings relative to this proposal and it is our responsibility to know when and where those hearings are. In the event that the petitioner is not represented, the proposed item will be dropped from the agenda, and an additional fee shall be charged to cover rescheduling expenses. Such fees must be paid before the proposed item can again be placed on the agenda. Any changes to the approved plan will require a re-review and approval by the Community Development Department prior to those changes being accepted.

WE UNDERSTAND that incomplete submittals will not be accepted and submittals with insufficient information, identified in the review process, which has not been addressed by the applicant, may be withdrawn from the agenda.

WE FURTHER UNDERSTAND that failure to meet any deadlines as identified by the Community Development Department for the review process may result in the project not being scheduled for hearing or being pulled from the agenda.

*****This original signed checklist must be returned with your submittal package. *****

Signature(s) of Petitioner(s

Signature(s) of Representative(s)

APPLICATION COMPLETENESS REVIEW

Use "N/A" for items which are not applicable

Project Name: <u>Morth Crest Ind. Mark</u> (if applicable) Project Location: <u>H Rd., west of 3D System</u> (address or cross-streets) Check-In Staff Community Development: <u>PC</u> initials of check-in		
Dev PPLICATION TYPE(S): (e.g. Site Plan Review)	elopment Engineer: 	<u>pp</u> staff members <u>n Plat – Maj'.</u>
EE PAID: Application Acreage: Public Wor <i>TOTAL:</i>	r: <u>630</u> °° <u>300°°</u> ks: <u>\$930</u>	BALANCE DUE: o yes, amount \$ o no \$50 Cables
OMPLETENESS REVIE	W: ed w/signatures? • yes	o no, list missing items below
•		37 <u>5</u> 67
issing drawings, reports, o Note: use SSID checkl	ther materials? e no o ist	yes, list missing items below
•		

2 N I VOVION Professional stamp/seal missing from drawings/reports? о по o yes, list missing items below Other Please list below CAN'S. * . + PROJECT ASSIGNMENT AND PROCESSING Project Manager: Special Processing Instructions: mdforms\checkin.doc 5/3/98 draft



Gregg L. Cranston Broker Associate GRI, CRS



4/9/01

Greg Trainer-Public Works 240 N. 5th. City of Grand Junction, Colorado 81501 RE: File #PP20-1-57, North Crest Industrial Subdivision

Dear Sir-.

We are facing what we believe is an undue financial burden regarding the extension of Sewer from our proposed project to the existing line currently located in H Rd. at the SE corner of 3-D Systems property.

At the time that 3-D System's site was developed sewer was brought to, but not across, the width of their property to the west side. We believe this was contrary to the City's own development policy at that time. To our knowledge nothing has changed with regard to the City's policy on sewer extension since then. Per that policy we are being required to (as we expected) to connect to sewer and take our sewer completely across our property so the owner to the west of us will be able to hook on in the future.

However, in the interest of fairness, we believe that we are being unfairly financially burdened by the being forced to bear the full cost of extending this sewer line across another developer's property who did not comply with the then existing City Policy at the time of that development. In looking through that development file we found nothing exempting them from doing so.

We are talking about approx 600' to construct this portion of the sewer which was not installed by the prior developer. We estimate that the cost of this section of line including actual construction, traffic control for shutting down H Rd, tearing up and replacing H Rd, may well cost us \$40,000 to \$50,000. This is cost that, by City policy, we believe should have been borne by the prior developer.

This failure to extend the sewer line across the 3 D property was known to the City at the time and for what ever reason allowed without any provision to offset these cost to future users (us being next to develop).

We believe that this placed an undue and unfair financial burden on us which we are now asking the City to help mitigate these costs in some form.

Respectfully,

Cranston

POA for Kay Scott, North Crest Development, LLC

Cc: Land Design, Kay Scott, File & Nebeker

1401 N. 1st Street • Grand Junction, CO 81501 Office: (970) 241-4000 Fax: (970) 241-4015 Res: (970) 241-7248 Toll Free: (800) 777-4573



City of Grand Junction Public Works Department 250 North 5th Street Grand Junction CO 81501-2668 FAX: (970) 256-4022

April 11, 2001

Gregg Cranston Re/Max 4000, Inc. 1401 North First Street Grand junction, Colorado 81501

Re: North Crest Industrial Subdivision

Dear Gregg:

Generally, the City's sewer extension policy has always been for the developer, at his expense, to extend sewer from where it is existing to where it is needed. Subsequent and neighboring development then takes the sewer from there and extends to where *they* need it. This principle is tempered by the requirements of the sewer utility in the area, topography, and the type and needs of adjoining development. Usually these requirements are anticipated and addressed in the development reviews.

Your description, in paragraph 2 of the attached, of the City's sewer extension policy, is incorrect.

Years ago the sewer system looked at the policy of sewer extensions and examined the policy of requiring one property to extend sewer across the full width of their land to the furthest point of their property (as you describe) versus extending only to nearest edge of their property. It was felt that, because of uncertainties with <u>subsequent</u> and neighboring development and sewer basin needs, it would be best not to extend sewer until the requirements were known. Depending on which pattern you use--your understanding of policy or ours-- the impact is the same, assuming the extension pattern does not change. In this case, the pattern was initiated at Sundstrand.

As you know, 3D Systems was required to go to Sundstrand Way and extend the sewer to their SE corner, a distance of 1,200 feet and a depth of 21 feet. They picked up the sewer where Sundstrand ended. 3D was not required to extend the sewer west along H Road for several reasons:

1. It is not policy to require development to extend to the furthest edge of property, except where permanent surface improvements will be installed that would preclude future utility extensions without tearing up new asphalt, landscaping, etc.

2. At the time there was no indication of the type and depth of sewer needed for <u>your</u> development. Had 3D extended it, it would have been at minimum grade and would not have been deep enough to serve you, thus wasting money and not satisfying the needs of your development or the sewer system.

3. Had 3D Systems been required to put it at depth, they would have been bearing your utility costs, in addition to the 1,200 feet they had already extended from Sundstrand. There is a fairness issue here.

You are not being required to do anything more than 3D Systems, except in one instance. Like 3D systems, you will be required to go get the sewer and extend it to your SE corner. You will then be required to install your internal collection system.

Unlike 3D Systems, you would be required to stub out sewer to just behind your permanent improvements at Block 1, Lot 2, so those permanent improvements would not need to be dug up at a future date and reinstalled by owners of Lot 2.

I understand that your submittal shows an additional extension of 240 feet to the far west edge of Lot 2. I also understand that this will insure that this portion of the sewer would not have to be installed by the eventual owner of Lot 2 before his permanent improvements go in (parking, buildings, etc.) This cost should not exceed \$4,800 dollars, well below your estimate of \$50,000 for ADDITIONAL costs over what 3D was required to put in.

Respectfully

1sinn Greg Trainor

Utility Manager City of Grand Junction 970-244-1564

cc: Trenton Prall, Utility Engineer Mark Relph, Public Works Director Kathy Portner, Community Development Director

Feb-27-	01 02:48	·····; · GJ L()col	n DeVore	970	42-1561	P.01
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			Phone #		Phone #	
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Lincoln DeVore, Inc. Geotechnical Consultants —

1441 Motor St. Grand Junction, CO 81505 TEL: (970) 242-8968 FAX: (970) 242-1561

January 30, 1997

Northcrest Development c/o Remax 4000 1401 N. 1st St. Grand Junction, Co 81501

Re: Surficial Geology Investigation Northcrest Industrial Park, Approximately 2790 H Road, Grand Junction, CO

At the request of Mr. Mike Best of LANDesign, Inc., personnel from this office have completed a ground reconnaissance of the above referenced site in order to determine the general geologic conditions and constraints relating to construction on the site. Following are our findings.

TRACT LOCATION & DESCRIPTION

The tract lies in the Southeast Quarter of the Southeast Quarter of Section 25, Township 1N, Range 1W of the Ute Principal Meridian, Mesa County, Colorado. The tract is bounded on the south by H Road, on the east by recent industrial construction and 28 Road and on the north and west by undeveloped land which has been used for agricultural purposes. The tract is located approximately 1/2 mile south, southwest of the main terminal building of Walker Field Airport and is approximately 4 miles north, northeast of the main downtown business district of the City of Grand Junction. The tract contains approximately 20 acres.

The topography of the tract is a rather gentle slope toward the south, southwest. An existing irrigation ditch runs from approximately northwest to southeast in the northern one half of the tract and another ditch/gully is present in the southwest corner of the tract. The overall topography of the tract has a gentle slope to the south, southwest with a slope of approximately 2 to 4 percent, with an elevation range of approximately 4777 feet in the southwest corner to 4806 feet in the northwest corner, using topographic mapping provided by LANDesign, 1-13-97.

The tract has been used for agricultural purposes in the past. The tract has been subject to variable amounts of on site irrigation and is drained toward the gully to the southwest, which enters the drainage along Horizon Drive and eventually to the Received: 2/27/01 15:07; 970 242 1561 -> LANDesign; Page 2

Feb-27-01 02:48P GJ L coln DeVore

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Northcrest Development Surficial Geology Investigation Northcrest Industrial Park, Approximately 2790 H Road, Grand Junction, CO January 30, 1997 Page 2

Colorado River. Surface drainage is fair to good and the subsurface drainage is fair to poor.

GENERAL GEOLOGY

The general geology of this area consists of a thick series of dipping sedimentary beds, covered with thin deposits of alluvial, debris fan deposits which originate on the slopes of the Bookcliffs to the northeast. Seismic events have occurred near, and possibly, in the Grand Valley area. These events were evaluated as having Richter Magnitudes up to and including 4.4, with no reported damages.

SITE GEOLOGY

The surface soils on this site consist of a series of silty clay and sandy clay soils which are a product of mud flow/debnis flow features which originate on the south-facing slopes of the Bookcliffs. These mud flow/debris flow features are a small part of a very extensive mud flow/debris flow complex along the base of the Bookcliffs and extending to the Colorado River.

Previous subsurface exploration in this general area indicates the surface soils may be as thin as 3 feet thick to in excess of 20 feet. These upper soils are normally composed of a very stratified sequence of clays, silts and sands. These soils often times contain sand, gravel and occasionally small boulder sized fragments of sandstone, siltstone and mudstone. These fragments of sedimentary rocks are characteristic of the Ancient Debris Flow activity from the Bookcliffs. In addition, these soils are found in a low to very low density condition and contain large to very large amounts of soluble sulfate salts.

The surface soils are deposited over the dense formational material of the Mancos Shale of Cretaceous Age. The Mancos Shale is described as a thinbedded, drab, light to dark gray marine shale, with thinly interbedded fine grain sandstone and siltstone layers. Some portions of the Mancos Shale are bentonitic, and therefore, are highly expansive. The majority of the shale, however, has only a low to moderate expansion potential. The formational shale was not exposed on the site or in the gully at the southwest corner of the site. It is possible the bottom of this gully is very close to the erosional surface of the Mancos Shale. The weathered clays of the Mancos Shale can often times be very difficult to distinguish from the overlying Debris Fan Deposits as, some of the Debris Fans are composed almost entirely

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Northcrest Development Surficial Geology Investigation Northcrest Industrial Park, Approximately 2790 H Road, Grand Junction, CO January 30, 1997 Page 3

of shale chips from the Mancos Formation exposed on the Bookcliffs. It is anticipated that this formational shale will affect the construction and the performance of the proposed foundations on the site.

The Mancos Shale Formation is often highly fractured, with fillings of soluble sulfate salts being very common. Some seams of sulfate salts up to 1/4 inch thick have been observed in samples in the near vicinity.

Sulfate Salts exhibit variable strength, depending upon surrounding moisture conditions and their chemistry as related to water. In addition, Sulfate Salts are soluble and may be physically removed from the soil by ground moisture conditions. Such removal may leave significant amounts of void areas within the Mancos Shale, which may affect the load bearing capacity of the formation. Many of the fractures in the Mancos Shale Formation are open, allowing the rapid transmission of water to occur. Some sandstone and siltstone strata within the Mancos Shale Formation also exhibit elevated permeability.

GROUND WATER

The depth to a true ground water surface is expected to very deep in this area. Natural ground water in encountered in some siltstone and sandstone beds of the Mancos Formation, primarily horizons believed to be in excess of 1000 feet below the ground surface. In addition, other ground water levels are known to exist in deeper formations, believed to be in excess of 3000 feet below the present ground surface.

Shallow, perched water levels have been present on this site in the recent past. Some of these recent perched water levels have probably been associated with precipitation both on the site and in the area north and east of this tract. The majority of perched water which has recently been on this site and, may still be present, is associated with the agricultural activities in this area and the irrigation ditch which is present on the northern portion of this tract.

Recent, subsurface exploration drilling on adjacent tracts has not revealed true free perched water but, several very moist to very wet areas have been encountered in the near vicinity of this irrigation ditch and in the drainage ditch along H Road. Feb-27-01 02:49P GJ L coln DeVore

Northcrest Development Surficial Geology Investigation Northcrest Industrial Park, Approximately 2790 H Road, Grand Junction, CO January 30, 1997 Page 4

SURFACE WATER

No free flowing waters were observed in the gully on the southwest portion of this tract. The gullies on this tract and in the general area are Ephemeral (flows only in direct response to The gullies in this area are part of the drainprecipitation). age features associated with the Ancient Debris Fans which originate on the Bookcliffs to the north. Many of the existing gullies are incised into the Mancos Shale Formation which form some of the hill areas north of the tract and the Walker Field Air-This particular site is located within the Leach Creek port. drainage area, which has its origins in the crest of the Bookcliffs, approximately 5 1/2 to 6 1/2 miles to the north, north-The construction of the Walker Field Airport runways has east blocked some of the direct drainage onto this site and has redirected that drainage into the main channel of Leach Creek, to the west. The actual drainage basin above this site has not been studied as a part of this report but, is believed to be less than 1/4 square mile.

ECONOMIC GEOLOGIC DEPOSITS

No extractable minerals or aggregate deposits are known to exist in the upper 100 feet of the soil and Mancos Shale bedrock beneath this site. No gravels composed of competent aggregates was found on this site nor are any known to exist in the near vicinity of this site.

The middle and lower portions of the Mancos Formation, the underlying Dakota, Cedar Mountain and Morrison Formations contain permeable strata which produce significant quantities of natural gas and very small amounts of oil. This tract is located south of well defined natural gas production fields in the Bookcliffs. In addition, several small natural gas and minor oil production fields exist below the Bookcliffs 10 to 15 miles northwest of the site. It is probable that natural gas and possibly minor amounts of oil could be extracted from below this tract.

Many of the same rock units which produce natural gas in this area also contain naturally occurring water. In general, potable water has not been encountered in these deeper rocks north of the Colorado River. It is possible that very small, perched waters may be found which could be potable. Due to the high to very high soluble sulfate salts contents of the alluvial soils and the weathered portions of the Mancos Shale Formation, it is considered very unlikely that naturally occurring, potable ground water would be found on or near this tract. Feb-27-01 02:49P GJ L coln DeVore

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Northcrest Development Surficial Geology Investigation Northcrest Industrial Park, Approximately 2790 H Road, Grand Junction, CO January 30, 1997 Page 5

GEOLOGIC HAZARDS

Due to the very gentle topography on this site, it is not anticipated that slope stability of naturally occurring slopes or the Mancos Shale Formation will be a concern on this site. No areas of significant slope failure were observed. The banks against the small gully in the southwest portion of this tract contained very minor slump features and soil creep features. These failure features on the gully banks are considered very small and should be relatively easily controlled in future construction. It is believed that access to the northern portion of this tract may be along the west property line, which would cross this gully area. As the surface waters are redirected and any proposed access roads constructed, it is anticipated these small slope failure features will be removed and corrected with properly constructed slopes and drainage.

The tract is not located within a mapped flood plain but, the site is within the middle portion of the Leach Creek drainage. Lincoln DeVore does not have access to nor has any knowledge of a specific flood hazard study for the upper reaches of Leach Creek. It is recommended that the potential of significant stream flow from Leach Creek associated tributaries (probably thunderstorm activity) be evaluated and that the potential of debris flow activity originating on the slopes of the Bookcliffs in the Leach Creek drainage be addressed.

The underlying soils of the Mancos Shale Formation do exhibit expansive characteristics. Due to the desiccated nature of the majority of the Mancos Shale, these soils are primarily expansive, however, after significant site development occurs, these soils may exhibit very minor shrink/swell characteristics based upon yearly ground moisture fluctuations. The characteristics of the Mancos Shale Formation should be properly evaluated in a Subsurface Soils Exploration for the anticipated construction.

The upper, unconsolidated portions of the soils found on this site contain strata of very compressible soil and some strata of metastable soil, which is defined as an unsaturated soil that undergoes a radical rearrangement of particles and loss of volume upon wetting, with or without additional loading. The addition of moisture by <u>any</u> means whatsoever, will weaken the internal cohesion of the soil and saturation may destroy it until the granular structure is rearranged and a new stability achieved. Considerable settlement may take place before the internal structure is stabilized. Variable, deep wetting is the most serious coln DeVore

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Northcrest Development Surficial Geology Investigation Northcrest Industrial Park, Approximately 2790 H Road, Grand Junction, CO January 30, 1997 Page 6

settlement condition, since this causes uneven settlements. Protection from the addition of water, both surface and subsurface, is very important to maintaining stability in this soil. These upper soils should be properly evaluated in a Subsurface Soils Exploration which is specific for the proposed construction.

The presence of large amounts of soluble sulfate salts both in the upper, unconsolidated soils and the fractures and bedding plains of the Mancos Shale Formation need to be carefully and properly evaluated as part as a Subsurface Soils Exploration for the specific construction planned on this tract. These soluble salts appear to be responsible for some of the metastable properties of the upper soils and loss of strength for the upper portions of the weathered Mancos Shale Formation.

The tract is not within a well defined flood plain or within any mapped flood plain or flood hazard area, based upon information available to Lincoln DeVore. The tract is in the middle portion of an Ancient Debris Fan of which Leach Creek is the primary drainage feature. The actual primary drainage channel of Leach Creek is located approximately one mile northwest of this tract. The actual drainage characteristics above this tract, particularly as modified by the construction of the Walker Field Airport runway system, should be evaluated.

It is believed that all pertinent points have been addressed. If any further questions arise or if LINCOLN-DEVORE can be of any further service, please do not hesitate to contact this office at any time.

Respectfully submitted,

LINCOLN-DeVORE, INC. 11/1

by: Edward M. Morris PE Engineering Geologist

LD Job # 85887-1437 (J)

Lincoln DeVore, Inc. Geotechnical Consultants —

1441 Motor St. Grand Junction, CO 81505 TEL: (970) 242-8968 FAX: (970) 242-1561

January 30, 1997

Northcrest Development c/o Remax 4000 1401 N. 1st St. Grand Junction, CO 81501

Re: H Road Improvements, Northcrest Industrial Park, Approximately 2790 H Road, Grand Junction, CO

At the request of Mr. Mike Best of LANDesign, Inc., the proposed road section at for improvements along H Road at the above referenced site was drilled and sampled by personnel of LINCOLN De-VORE, INC.. The samples were subjected to Laboratory Testing and appropriate road sections were computed. Following are our findings and recommendations.

Samples of the surficial native soils that may be required to support pavements have been evaluated using the Hveem-Carmany method (ASTM D-2844) to determine their support characteristics. The results of the laboratory testing are as follows:

Two basic soil types were encountered on this site. Both soil types are alluvial soils which were deposited by Ancient Mudflows/Debris Flow features which originated in the Bookcliffs to the north. The coarser grained soil type was found to consist of significant amounts of sand and some gravel sized fragments of sandstone and siltstone. This soil type is not the predominate soil on this site and should not be used for road section design unless the final excavations indicate that significant amounts of these soils exist.

AASHTO Classification - A-4(1) Unified Classification - ML Soil Type # I R = 27

Expansion @ 300 psi = 7.56 psf Displacement @ 300 psi = 4.99

The second soil type encountered during this exploration program is an alluvial, debris fan type soil. This soil type is fine grained, contains variable amounts of soluble sulfate salts and is generally encountered in a low to occasionally very low condition. Northcrest Development H Road Improvements, Northcrest Industrial Park, Approximately 2790 H Road, Grand Junction, CO January 30, 1997 Page 2

AASHTO Classification - A-4(5) Unified Classification - ML-CL Soil Type # II R = 19 Expansion @ 300 psi = 8.74 psf Displacement @ 300 psi = 4.61

Displacement values higher than 4.00 generally indicate the soil is unstable and may require confinement for proper performance.

Traffic Counts or anticipated volumes of traffic have been provided to Lincoln DeVore by Mr. Mike Best of LANDesign. It is reported these traffic counts were obtained on H Road in April 1996. It is further reported these counts indicated 2,437 total vehicle trips should be utilized each way along H Road. For use in calculating the pavement sections, this 2,437 total trips was used assuming H Road is 2 lane and 60% of 2,437 total trips was used for each lane.

Two methods of design were utilized for this project. First, the 1986 AASHTO procedure, recognized by the Colorado Department of Transportation and second, The Asphalt Institute (MS-1). A design life of 20 years was used, with an annual growth rate of 2.2%.

Based upon the existing topography, the anticipated final road grades and subsurface soils conditions encountered during the drilling program, a Drainage Factor of 0.7 (1986 AASHTO procedure) and a mean average annual air temperature (MAAT) of 60° Fahrenheit (Asphalt Institute Method) has been utilized for the section analysis.

Calculated Pavement Sections

$18K EAL = 42.79$ Soil "R" Value = 191986 AASHOAsphalt InstituteDrainage Coefficient = 0.7MAAT = 60° FAC3" or 4"4" or 4"ABC13" or 8"6" or 12"Subbase0"Subbase		Existing 2 lane - to upgrade	main travel lane	
1986 AASHOAsphalt InstituteDrainage Coefficient = 0.7 MAAT = 60° FAC3" or 4"4" or 4"ABC13" or 8"6" or 12"Subbase0"Subbase		18K EAL = 42.79	Soil "R" Value = 19	
AC3" or 4"4" or 4"ACABC13" or 8"6" or 12"ABCSubbase0"0"Subbase		1986 AASHO Drainage Coefficient = 0.7	Asphalt Institute MAAT = 60 ⁰ F	
ABC 13" or 8" 6" or 12" ABC Subbase 0" 0" Subbase	AC	3" or 4"	4" or 4"	AC
Subbase 0" Subbase	ABC	13" or 8"	6" or 12"	ABC
	Subba	ise O"	0 "	Subbase

Northcrest Development H Road Improvements, Northcrest Industrial Park, Approximately 2790 H Road, Grand Junction, CO January 30, 1997 Page 3

4 lane upgrade or access equals travel lane

18K EAL = 34.1	Soil "R" Value = 19	
1986 AASHO Drainage Coefficient = 0.7	Asphalt Institute	
AC $3"$ or $4"$	4" or 4"	AC
Subbase O"	6 OF 12 0"	Subbase

Due to the probability of very high soil moisture in the subgrade soils along parts of this project, the use of a Geotextile Fabric for separation and minor reinforcement (such as Mirafi 500-X or 140-N), placed beneath the Structural Section, may be required in some areas along this road alignment. In general, it is recommended the woven fabric, such as Mirafi 500-X, be utilized unless free water is present in the excavation. If free water is present, the non-woven fabric, such as Mirafi 140-N, while possessing lower strength generally provides better constructability. The upper layer of Biaxial Geogrid or Geotextile for reinforcement, placed beneath the Aggregate Base Course and the subbase/structural fill, may not be required, depending on actual field conditions.

The additional materials and effort expended in subgrade stabilization is to provide a construction platform, so the actual Road Section can be placed and compacted. The specific areas which will require placement of either the Biaxial Geogrid or the Geotextile Fabric will depend on the actual conditions encountered during construction. The subgrade and road section construction should be monitored by representatives of the Geotechnical Engineer.

Geotextile Fabric for separation and minor reinforcement should be either a woven with a minimum Grab Strength of 180 lb., in the weakest direction (such as Mirafi 500-X). If free water is encountered, a non-woven/needle punched with a minimum Grab Strength of 110 lbs., in the weakest direction (such as Mirafi 140-N) may be utilized for better constructability, even though it is a weaker fabric.

Biaxial Geogrid for reinforcement shall have a minimum Tensile strength @ 5% Strain of 550 lb/ft., in the weakest direction (such as Tensar BX 1100).

Any Imported structural Fill (Hveem-Carmany \mathbb{R} <70 , swell not critical) is to be Granular, Medium to Coarse Grained, Very low

Northcrest Development H Road Improvements, Northcrest Industrial Park, Approximately 2790 H Road, Grand Junction, CO January 30, 1997 Page 4

plastic (PI<4), Non Freedraining, Compactable and within the following Gradation:

Maximum	size, by screening	<u>6''</u>
Passing	the #4 screen	20% - 85%
Passing	the #40 screen	10% - 60%
Passing	the #200 screen	3% - 15%

Imported Structural Fill and Aggregate Base Course (ABC) to be compacted to 90% of its maximum Modified Proctor dry density (ASTM-D-1557) at a moisture content within \pm 2% of optimum moisture. The use of light weight tracked equipment will minimize subgrade degradation, vibratory compaction equipment is not recommended.

During the placement of any structural fill, it is recommended that a sufficient amount of field tests and observation be performed under the direction of the Geotechnical Engineer. The Geotechnical Engineer should determine the amount of observation time and field density tests required to determine substantial conformance with these recommendations.

Any areas of Fill or Subgrade instability encountered during construction are to be immediately brought to the attention of the Geotechnical Engineer, so recommendations for stabilization can be given.

The Subgrade Stabilization is normally considered effective if the imported structural fill materials are confined, if specified imported fill and specified asphalt densities are obtained and the final traffic surface is stable according to local practices. Some 'pumping and rolling' of the finish Base Course (ABC) surface is anticipated but, rutting should not occur.

PAVEMENT SECTION CONSTRUCTION

We recommend that the asphaltic concrete pavement meet the State of Colorado requirements for a Grade C mix. In addition, the asphaltic concrete pavement should be compacted to a minimum of 95% of its maximum Hveem density. The aggregate base coarse should meet the requirements of State of Colorado Class 5 or Class 6 material, and have a minimum R value of 78. We recommend that the base coarse be compacted to a minimum of 95% of its maximum Modified Proctor dry density (ASTM D-1557), at a moisture content within + or -2% of optimum moisture. The native subgrade shall be scarified and recompacted to a minimum of 90% of their



Northcrest Development H Road Improvements, Northcrest Industrial Park, Approximately 2790 H Road, Grand Junction, CO January 30, 1997 Page 5

maximum Modified Proctor day density (ASTM D-1557) at a moisture content within + or -2% of optimum moisture.

All pavement should be protected from moisture migrating beneath the pavement structure. If surface drainage is allowed to pond behind curbs, islands or other areas of the site and allowed to seep beneath pavement, premature deterioration or possibly pavement failure could result.

It is believed that all pertinent points have been addressed. If any further questions arise regarding this project or if we can be of any further assistance, please do not hesitate to contact this office at any time.

Respectfully Submitted LINCOLN DeVORE, Inc. 30590 SS/ONAL by: Edward M. Morris

Edward M. Morris Parts Sional Engineer/Western Slopentaries er

LD Job No.: 85887-1437 (J)

JICAL_SURVEY



Mar 4,97 16:26 No.009 P.03

STATE OF COLORADO

COLORADO GEOLOGICAL SURVEY Division of Minerals and Geology

Department of Natural Resources 1313 Sherman Street, Room 715 Denver, Colorado 80203 Pilone (303) 866-2611 FAX (303) 866-2461

August 21, 1996

MA-97-0004



Rity Romer Governor

Jointh 5: Lochhead Executive Director

Michael B. Long. Division Director

Vicki Cowart State Ceologist and Director

City of Grand Junction Community Development Department 250 North 5th Street Grand Junction, Colorado 81501

Re: 3D Minor Subdivision -- Northwest of the Intersection of H Road and Falcon Way, Walker Field Airport Area, Grand Junction

Gentlemen:

At your request, we have reviewed the proposed plat submitted for and made a site inspection of the parcel indicated above. The following comments summarize our findings.

(1) The geology of this site consists of a clayey alluvial (water deposited) residual soil derived from sheetwash deposits that originated in the Mancos Shale bedrock outcrops of the Book Cliffs. The thickness of these deposits is not known (and cannot be determined without drilling) but they do overlie the Mancos Shale. It is possible that they are interbedded with ancient stream gravels and that perched water table(s) occur within them and that the highest water table is relatively shallow.

(2) The soils described above tend to be low density and subject to settlement if subjected to relatively heavy or concentrated structural and/or percussive wheel loads. Because of this and also because of the possibility of perched water, the most suitable kind of structure that could be constructed on them without incurring serious structural problems is a relatively light weight one using a shallow foundation system consisting of wide footings and pads. Their exact sizes should be determined by a qualified soils and foundation engineer after reviewing building plans with its architect and, for an industrial building, determining both live and dead floor and wall loads. For this particular site, the slopes in the vicinity make the parcel subject to shallow sheet flooding during heavy rainstorms. This and the possible water-table condition probably will preclude use of below-grade space unless active surface (surface-water interception by ditches) and subsurface drainage-control measures (such as pumped foundation drains) are incorporated into building design(s).

(3) During the course of fieldwork, I inspected the <u>exterior</u> of the existing 3D Building and noticed some settlement damage, especially in its parking lot(s). This problem can be par-

City of Grand Junction Community Development Department August 21, 1996 Page 2

tially avoided in the future by appropriate soil testing and precompaction in areas that are to be paved.

Generally, this site is completely suitable for continued development as an industrial site. If the recommendations made above are considered seriously in future development plans, then we have no geology-related objection to continued development in this area.

Sincerely,

Un. Soula

Annes M. Soule Engineering Gcologist

STATE OF COLORADO

COLORADO GEOLOGICAL SURVEY Division of Minerals and Geology

Department of Natural Resources 1313 Sherman Street, Room 715 Denver, Colorado 80203 Phone (303) 866-2611 FAX (303) 866-2461

March 4, 1997

MA-97-0026

Mr. Bill Nebeker City of Grand Junction Community Development Department 250 North 5th Street Grand Junction, Colorado 81501



Governar

Jones S. Loc bliead Executive Director

Michael B. Long Doision Director

Vicki Criwait Mate Casologist and Lines its

Re: Proposed North Crest Industrial Park Subdivision --Northwest of the Intersection of H Road and Horizon Drive, Walker Field Area, Grand Junction

Dear Mr. Nebeker:

At your request, we have reviewed the materials submitted for and made a field inspection of the site of the proposed industrial subdivision indicated above. The geologic conditions of this site are very similar to those in the nearby 3-D Minor subdivision which we reviewed for you last August. The following comments summarize our findings.

(1) The general surficial geology of this site is clayey residual soils derived from ancient to modern fine-grained alluvial deposits which originated in the Mancos Shale outcrop of the Book Cliffs.

(2) As in the earlier case, the potentially most serious geologyrelated problems for industrial development of this parcel are soil settlements and surface and subsurface drainage. Please see our comments made in the review response for 3-D. It will be <u>absolutely</u> <u>critical</u> for a detailed soils and foundation investigation to be made for all structures. As in the earlier case, the surface drainage of the parcel is generally poor, and provisions should be made to control it so that water does not pond or puddle near buildings or on parking lots.

If the recommendations made above and in the earlier correspondence are followed, the we have no geology-related objection to this proposal.

Sincerely James M. Engineering Geologist

encls.



Issuing Agent For:

TRANSNATION TITLE INSURANCE COMPANY

1114 N. 1st., Suite 201, Grand Junction, CO 81501, • (970) 242-8234 • FAX: (970) 241-4925

	AMUUNT	PREMIUM
Re/Max 4000, Inc.	OWNER \$ TBD	\$ 210.00
Gregg Cranston	MORTGAGE \$	\$
1401 N. 1st Street	COST OF TAX CERTIFICAT	E S
Grand Junction, CO 81501	FORM 100	\$
	ALTA 8.1	\$
		\$
		\$

Your Reference North Crest Development

CC's To: (2) Re/Max 4000-Gregg Cranston (1) LanDesign-Brian Hart

No. 00905097 C

Tax Schedule No. 2701-254-00-280

Property Address vacant land, Grand Junction, CO 81506

- COMMITMENT TO INSURE -

Transnation Title Insurance Company, an Arizona corporation, herein called the Company, for a valuable consideration, hereby commits to issue its policy or policies of title insurance, as identified in Schedule A, in favor of the proposed insured named in Schedule A, as owner or mortgagee of the estate or interest covered hereby in the land described or referred to in Schedule A, upon payment of the premiums and charges therefor; all subject to the provisions of Schedules A and B and to the conditions and stipulations shown on the reverse side.

Customer Contact: <u>Donna-Title</u> Phone: (970) 242-8234

By Alma AUTHORIZED SIGNATURE

The effective date of this commitment is February 16, 2001 at 7:00 A.M. At which time fee title was vested in:

North Crest Development LLC, a Colorado Limited Liability Company

SCHEDULE A

 Policies to be issued: (A) Owners':

(B) Mortgagee's:

2. Covering the Land in the State of Colorado, County of Mesa Described as:

A parcel of land in the SE 1/4 of Section 25, Township 1 North, Range 1 West of the Ute Meridian being more particularly described as follows:

Commencing at the Southeast corner of said Section 25 whence the South Quarter corner of said Section bears North 88°03'49" West 2635.72 feet;

thence along the East line of the SE 1/4 SE 1/4 of said Section North 1°57'20" East 30 feet;

thence running parallel to the South line of the SE 1/4 of said Section North 88°03'49" West 583.60 feet to the TRUE POINT OF BEGINNING;

thence North 88°03'49" West 467.65 feet;

thence North 1°57'20" East 2027.63 feet;

thence South 52°54'21" East 571.87 feet;

thence South 1°57'20" West 1698.33 feet to the TRUE POINT OF BEGINNING.

Commitment Schedule A - Continued Form 7242-3

SCHEDULE A — Continued

REQUIREMENTS

- 3. The following are the requirements to be complied with prior to the issuance of said policy or policies. Any other instrument recorded subsequent to the date hereof may appear as an exception under Schedule B of the policy to be issued. Unless otherwise noted, all documents must be recorded in the office of clerk and recorder of the county in which said property is located.
- A. Deed from : North Crest Development LLC, a Colorado Limited Liability Company to : parties to be determined

Note: This commitment is subject to such further exceptions and requirements as may appear necessary when the instruments called for above have been recorded and the name of the grantee has been disclosed.

Commitment No. 00905097

File No. 00905097

SCHEDULE B — Section 2

Schedule B of the policy or policies to be issued will contain exceptions to the following matters unless the same are disposed of to the satisfaction of the Company.

- 1. Rights or claims of parties in possession not shown by the public records.
- 2. Easements, or claims of easements, not shown by the public records.
- 3. Discrepancies, conflicts in boundary lines, shortage in area, encroachments, and any facts which a correct survey and inspection of the premises would disclose and which are not shown by the public records.
- 4. Any lien, or right to a lien, for services, labor, or material heretofore or hereafter furnished, imposed by law and not shown by the public records.
- 5. Unpatented mining claims; reservations or exceptions in patents or in Acts authorizing the issuance thereof.
- 6. Any and all unpaid taxes, assessments and unredeemed tax sales.
- 7. Reservation of right of proprietor of any penetrating vein or lode to extract his ore, in U.S. Patent recorded June 19, 1895 in Book 11 at Page 394.
- 8. Reservation of right of way for any ditches or canals constructed by authority of United States, in U.S. Patent recorded June 19, 1895 in Book 11 at Page 394.
- 9. Right of way, whether in fee or easement only, as granted to Mountain States Telephone and Telegraph Co. by instrument recorded August 23, 1960 in Book 785 at Page 335, as set forth on the sheet attached hereto.
- 10. Any right of way for Colorado Ute Electric Association as disclosed by Right of Way recorded November 10, 1961 in Book 814 at Page 157, as set forth on the sheet attached hereto.

NOTE: EXCEPTION N/A WILL NOT APPEAR IN THE MORTGAGE POLICY TO BE ISSUED HEREUNDER.

ABSTRACT & TITLE CO.
OF MESA COUNTY, INC.

Issuing Agent For:

TRANSNATION TITLE INSURANCE COMPANY

- CONDITIONS AND STIPULATIONS -

Please read carefully

- 1. This is a Commitment to issue one or more policies of title insurance in our Standard Form when the requirements set forth in the Commitment have been satisfied. The policy is available and should be examined before this Commitment is used if there is any question about coverage.
- 2. Only the policies shown are committed to. If there are any changes in the transaction, order an amendment from us.
- 3. The date on this Commitment is important. Nothing after that date has been considered by us.
- 4. This Commitment is good for 6 months only. Extensions should be ordered from us if they are needed.

PURSUANT TO SENATE BILL 91-14 (CRS 10-11-122) NOTICE IS HEREBY GIVEN THAT:

(a) THE SUBJECT REAL PROPERTY MAY BE LOCATED IN A SPECIAL TAXING DISTRICT;

(b) A CERTIFICATE OF TAXES DUE LISTING EACH TAXING JURISDICTION SHALL BE OBTAINED FROM THE COUNTY TREASURER OR THE COUNTY TREASURER'S AUTHORIZED AGENT;

(c) INFORMATION REGARDING SPECIAL DISTRICTS AND THE BOUNDARIES OF SUCH DISTRICTS MAY BE OBTAINED FROM THE BOARD OF COUNTY COMMISSIONERS, THE COUNTY CLERK AND RECORDER, OR THE COUNTY ASSESSOR.

NOTE:

A TAX CERTIFICATE WILL BE ORDERED FROM THE COUNTY TREASURER BY THE COMPANY AND THE COSTS THEREOF CHARGED TO THE PROPOSED INSURED <u>UNLESS WRITTEN</u> <u>INSTRUCTIONS TO THE CONTRARY ARE RECEIVED BY THE COMPANY PRIOR</u> TO THE ISSUANCE OF THE TITLE POLICY ANTICIPATED BY THIS COMMITMENT.

> 1114 N. 1st Street, Suite 201 Grand Junction Colorado 81501 970-242-8234 Fax 970-241-4925

RIGHT OF MAY ACREMENT

DReceived of THE HOUTTALE STATE TLISPHONE AND TELETRAPH COMPANY, the Hundred Perty-Mise and me/100 - - - - - - - - - - - Dollars (\$ 210.00 in consideration of which the undersigned hereby grants, bargains, sells and convey Junto said Company, its associated and allied companies, its and their respective successore, assigne, lessees and agents, a right of way and ease 117. 13 operate, maintain, replace, and renove such communication systems as the grantees may from time to time require, consisting of underground conduit, cables, wh ever, and under a strip of land Birtoon & One helf width across the land which the undersigned owns and which is located within the Nesa . State of denter line of said strip being particularly located and described as followss ginning at the Southwest corner of Sec. 25, 7-1-N of 2-1-W of the Die P.M.); shence Read 1362 foot; thence Herth 42 feet to the true point of beginning, there East \$100 feet (248-55 reds) to the East property 11me 21ministra 542 M 12-1-1-1 This grant and conversince also provides and includes the following rights the granteest Of ingress and egress over, along and across the land owned by for

for the grantees: Of ingress and egress over, along and across the following rights the undersigned to and from the above described strip for the purpose of emercialize all rights herein granten; to place surface markers beyond the above described strip; to clear and keep cleared all trees, roots, brush, and other obstructions is from the surface and subsurface of said strip.

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The undersigned granter, and the undersigned's successors, assigns, and i lessees, shall have the following rights which are hereby reserveds To use the surface area of the Easement and the property upon which the easement is located, i such use to include the placement of fences, provided, however, that no such use if which interfere with or darage the communications system or property of Grantee installed pursuant to this grant, or with the maintenance, repair, and replacement

10345100 lyste and 'pr to repairs pessonable relocation of any limits of the Right of Way and Ensement hereby granted. Bar Lie's The Grantees agree that the said communication systems shall be originally placed at least Trust-Four) inches deep in order to reduce \mathcal{A}^{m} 24 rossibility of interference with the ordinary and reasonable use of the Dreate to reinburse the owner for actual losses resulting from damage to fances, and growing crops caused by or arising out of the construction and maintenance add 1. 1. 1. 1. 1. 12. 4 11. IN WITNESS WHEREOF, these presents have been executed this daj άť. 60 [10] WITHESS OT:D. Reit 1.11 16 4 ab anat well shade 0.0 Une Ornes Acres 1049 12

60) anter anticipation of the second statement of the statement of the second UNITED STATES DEPARTMENT OF THE INTERIOR Bureau of Land Management Colorade Land Office 371 New Custom House P. 0. Box 1018 Denver 1, Colorado

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CERTIFIED MAIL

County of Mesa

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INCISION

RIGHT - OF - WAY GRANTED

Details of Grant

Serial number of grant

Name of grantee

COLORADO OGI 164

COLORADO-UTE ELECTRIC ASSOCIATION, INC.

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Anaio M: Dunston ...

100 814 FAGE 157

C-061164

Recorder

APRIL 20, 1961

Map showing the location and dimensions of grant;

Map designations

Date filed

Permitted use by grantee

Authority for grant

Regulations applicable to grant;

Code reference

Circular numbers

Date of grant

Expiration date of grant

Rental:

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When payable by grantee

GRAND JUNCTION - BOOKCLIFF - ORCHARD MESA AND BOOKCLIFF - LOMA APRIL 12, 1961

TRANSMISSION LINES AND SUBSTATIONS

ACT OF FEBRUARY 15, 1901 (43 U.S.C. 959)

43 CFR 244 SUPPORTS A AND D

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APRIL 28, 1961

NONE

NONE (REA)

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Terms and Conditions of Ger

Pursuant to the authority veste by Order So. 541 of the Director, Sursen dated April 21, 1954 (19 F.R. 2473), as a the details of which are shown above, is) d in th ST.ST a of L to the following terms and conditions; 11 sect 2

1. All valid rights existing on the date of the great.

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- 2. All regulations in the circulars specified above (except 43 CFR 244.9m).
- Filing of proof of construction within 5 years of date of the grant,
- 4. WHERE THE VEGETATIVE GOVER IS REMOVED OR DISTURSED ON THE RIGHT-OF-WAY, OR ON OTHER AREAS OF PUBLIC . LAND USED IN CONNECTION WITH THE RIGHT-OF-WAY, SAID AREAS SHALL BE SEEDED AT A RATE OF SIX POUNDS OF CREATED WHEAT GRASS AND ONE POUND OF YELLOW SWEET CLOVER PER ACRE.
- 5. WATER BAR SHALL BE CONSTRUCTED ALONG THE CLEARED RIGHT-OF-WAY AND ON SERVICE ROADS, IN SUCH A MANNER AS TO ELIMINATE ANY WATER CONCENTRATION.
- 6. NO EXISTING STRUCTURE SHALL BE DISTURBED OR MADE INOPERATIVE BY THE POWER LINE.
- 7. IF ANY FENCE IS CROSSED BY THE POWER LINE AND CON-TINUED INGRESS AND EGRESS ARE REQUIRED, A GATE SHALL BE INSTALLED USING THE SAME STANDARDS AS THOSE BET UP BY THE BUREAU OF LAND MANAGEMENT.
- G. WHERE THE RIGHT-OF-WAY IS CLEARED THROUGH BRUSH TYPE OTHER THAN SALTBRUSH AND SAGEBRUSH, THE DEBRIS SHALL BE DISPOSED OF IN THE FOLLOWING MANNER;
 - (A) WHERE FEASIBLE, BRUSH SHALL BE PLACED IN WASHES AND GULLIES TO ACT AS CHECK DAMS,

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- AND GULLIES TO ACT AS CHECK DANS;
 (B) WHERE THE POWER LINE RIGHT-OF-WAY IS CUT INTO THE SIDE OF A STEEP HILL, BRUSH MAY BE PLACED AT THE LOWER SIDE OF FILL TO ACT AS A RETAINER;
 (C) WHERE IT IS NOT FEASIBLE TO PLACE BRUSH IN WASHES; THE BRUSH SHALL BE FILED AND BURNED; THE BURNING SHALL BE DONE WHEN THERE IS NO DANGER OF THE FIRE SPREADING

TO THE ADJACENT AREAS, THE COMPANY SHALL ASSUME ALL RESPONSIBILITY FOR ANY DAMAGE, THE BUREAU OF LAND MANAGEMENT SHALL BE NOTIFIED BEFORE BURGH ING COMMENCES,

FURTHER DETAILS REGARDING STIPULATIONS NUMBERED 4 THROUGH & ABOVE SHOULD BE OBTAINED FROM THE DISTRICT MANAGER, BUREAU OF LAND MANAGEMENT, GHAND, JUNCTION, COLORADO.

THIS DECISION BECOMES FINAL 30 DAYS FROM ITS RECEIPT UNLESS AN APPEAL TO THE DIRECTOR, BUREAU OF LAND MANAGEMENT, IS FILED. IF AN APPEAL IS TAKEN, THERE MUST BE STRICT COMPLIANCE WITH THE REGULATIONS IN 43 CFR, PART 221 (SEE ENCLOSED FORM 4-1364).

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ENCLOSURES - FORM 4-1364 CIRCULAR No. 1915

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C-061164

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RIGHT - OF - WAY GRANTED

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Rental:

Amount

When payable by grantee

GRAND JUNCTION - BOOKCLIFF - ORCHARD Mesa and Bookcliff - Loma April 12, 1961

TRANSMISSION LINES AND SUBSTATIONS

Act of FEBRUARY 15, 1901 (43 U.S.C. 959)

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 (C) WHERE IT IS NOT FEASIBLE TO PLACE BRUSH IN WASHES, THE BRUSH SHALL BE PILED AND BURNED, THE BURNING SHALL BE DONE WHEN THERE IS NO DANGER OF THE FIRE SPREADING

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FURTHER DETAILS REGARDING STIPULATIONS NUMBERED 4 THROUGH & ABOVE SHOULD BE OBTAINED FROM THE DISTRICT MANAGER, BUREAU OF LAND MANAGEMENT, GHAND, JUNCTION, COLORADO.

THIS DECISION BECOMES FINAL 30 DAYS FROM ITS RECEIPT UNLESS AN APPEAL TO THE DIRECTOR, BUREAU OF LAND MANAGEMENT, IS FILED, IF AN APPEAL IS TAKEN, THERE MUST BE STRICT COMPLIANCE WITH THE REGULATIONS IN 43 CFR, PART 221 (SEE ENCLOSED FORM 4-1364).

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ENCLOSURES - FORM 4-1364 CIRCULAR No. 1915

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CC + GRAND JUNCTION DISTRICT OFFICE





STATE OF COLORADO

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DEVELOPMENT APPLICATION

Community Development Dept 250 North 5th Street Grand Junction CO 81501 (970) 244-1430

We, the undersigned, being the owner's of the property adjacent to or situated in the City of Grand Junction, Mesa County, State of Colorado, as described herein do hereby petition this:

Petition for (check all appropriate boxes):		
 Subdivision Plat/Plan - Simple Subdivision Plat/Plan - Major Preliminary Subdivision Plat/Plan - Major Final Planned Development - ODP Planned Development - Preliminary Planned Development - Final 	 Site Plan Review - Major Site Plan Review - Minor Conditional Use Permit Vacation, Right-of-Way Vacation, Easement Extension of Time 	 Concept Plan Minor Change Change of Use Revocable Permit Variance
Annexation/Zone of Annexation	🗀 Rezone <u> </u>	Growth Plan Amendment
From:	From:	From:
То:	То:	то:
Site Location:		
H Road, west of 3D Systems	ti and	
Site Tax No.(s): 2701 - 254 - 00-280	Site Acreage/Square footage: 20 Acres	
Project Description: 11 Lots on 20 Acres, zoned	I-0	
1		11/

North Crest LLC	📙 North Crest LLC	LANDesign, LLC
Property Owner Name	Developer Name	Representative Name
Route 2 Box 81	Route 2 Box 81	244 N 7th Street
Address	Address	Address
Merino, CO 80741	Merino, CO 80741	Grand Junction, CO 81501
City/State/Zip	City/State/Zip	City/State/Zip
(970) 241-4000 Business Phone No.	(970) 241-4000	(970) 245-4099
- X - 1		brianh@landesign-gj.com
E-Mail	E-Mail	E-Mail
1.000	R.	(970) 245-3076
Fax Number	Fax Number	Fax Number
Gregg Cranston		Brian Hart
Contact Person	Contact Person	Contact Person
		(970) 245-4099
Contact Phone No.	Contact Phone No.	Contact Phone No.

Note Legal property owner is owner of record on date of submittal.

We hereby acknowledge that we have familiarized ourselves with the rules and regulations with respect to the preparation of this submittal, that the foregoing information is true and complete to the best of our knowledge, and that we assume the responsibility to monitor the status of the application and the review comments. We recognize that we or our representative(s) must be present at all required hearings. In the event that the petitioner is not represented, the item may be dropped from the agenda and an additional fee charged to cover rescheduling expenses before it can again be placed on the agenda.

Signature of Person Completing Application

Required Signature of Legal Property Owner(s) - attach additional sheets if necessary

ADJACENT PROPERTY OWNER LABEL ORDER FORM

01-254-00-280
Kay Scott for North Crest ILC Route 2 Box 81 Merind, Co 80741
Same
ATIVE: Brian Harts LANDesign L 24410 744 81501 245-4099

*REQUEST FOR LABELS MUST BE SUBMITTED A MINIMUM OF 2 WEEKS PRIOR TO SUBMITTAL OF PROJECT.

FEE: \$50.00

DATE PAID:

RECEIPT #: _____

The adjacent property mailing list is created by pulling all property owners within 500 feet and all Homeowners Associations or citizen groups within 1000 feet of all properties involved in the project. The property owner information is put together using the information in the Mesa County Assessor's records and the HOA's and citizens groups are on record with the City of Grand Junction Community Development Department.

COMMUNITY DEVELOPMENT CITY OF GRAND JCT 250 N 5TH ST GRAND JUNCTION, CO 81501

NORTH CREST DEVELOPMENT LLC KAY SCOTT RR 2 BOX 81 MERINO, CO 80741

3D SYSTEMS CORPORATION 26081 AVENUE HALL VALENCIA, CA 91355-1241

ALVIN SCHIESSWOHL JEAN 570 HALL AVE GRAND JUNCTION, CO 81501-2138



LANDESIGN BRIAN HART 244 N 7TH ST GRAND JUNCTION, CO 81501

BRUCE C CURRIER WILMA M CURRIER 2760 H RD GRAND JUNCTION, CO 81506-1749

COLORADO WEST IMPROVEMENTS 360 GRAND AVE GRAND JUNCTION, CO 81501-2448 W R HALL LLC 2522 HIGHWAY 6 AND 50 GRAND JUNCTION, CO 81505-7166

WALKER FIELD PUBLIC AIRPORT AU 2828 WALKER FIELD DR UNIT 21 GRAND JUNCTION, CO 81506

SUNDSTRAND CORPORATION 4949 HARRISON AVE ROCKFORD, IL 61108-7987



BOARD MEETING

#713

MAY 9, 2001

Meeting number seven hundred thirteen of the Board of Directors of the Ute Water Conservancy District and the Ute Water Activity Enterprise was called to order by Chair, Dorothy Hoskin, at 7:30 p.m. at the District Office on May 9, 2001.

ROLL CALL

Answering to roll call were Santo Bertuzzi, James Burkhalter, Bruce Currier, Wallace Downer, Dick Fletcher, Robert Gobbo, Dorothy Hoskin, Harley Jackson, Ronald Jaynes, Robert King, James Rooks and Robert Saunders.

Also in attendance were Larry Clever, Charlie Stockton, Rex Ricks, Tom Crumpton, Ralph Ohm, Bob Dyreng and Tim Moore, Ute Staff members; Rita Crumpton, Recording Secretary; Mark Hermundstad, Ute's Counsel; Patti Herland, Steve Ryken, Mike Seeley and Ed Tolen, Ute employees. Guests present: Gregg Cranston, Developer.

PUBLIC COMMENTS

There were none.

ACTION ITEMS

MINUTES

The Chair noted that each Board member had received a copy of the draft minutes of the April regular meeting in the mail previous to this meeting. She then called for additions, corrections or deletions.

Motion to approve the minutes as distributed made by Santo Bertuzzi, second by Dick Fletcher and carried.

BILLS

Bills totaling \$2,697,548.14 were presented to the Board for approval. A listing of all checks written prior to this meeting, totaling \$154,629.01, was also presented.

Motion to approve the bills for payment in the amount of \$2,697,548.14 and the checks written prior to board meeting in the amount of \$154,629.01, made by Dick Fletcher, second by Santo Bertuzzi. The Chair requested that the bills from Barnard Construction Company and Affholder, Inc. be excepted from the motion until change orders could be discussed later in the meeting. Mr. Fletcher and Mr. Bertuzzi agreed to that modification of the motion, changing the

The second Order for Inclusion presented for approval encompassed several relatively isolated areas on the Redlands and in scattered sections of land near Kingsview Estates.

The Chair opened the public hearing on the Petition for Inclusion at 7:50 p.m. There were no comments and the public hearing was closed at 7:51 p.m.

Motion to adopt the Order for Inclusion for scattered properties on the west end of the Redlands and near Kingsview Estates made by Dick Fletcher, second by James Rooks and carried.

IRRIGATION TAP REQUEST - GREGG CRANSTON

The Assistant Manager explained that Mr. Cranston has submitted a proposal for a commercial subdivision to the Planning Department of the City of Grand Junction. The property is located north of H Road in the airport area, immediately west of 3D. The City Planning Department has required the construction of a storm drainage detention pond. They have also required landscaping at the pond. There is no irrigation water available. District staff has issued Mr. Cranston a letter stating that the District does not sell taps for irrigation/landscape purposes (copy attached) and the City has sent him to the board to appeal staff's decision.

Mr. Cranston explained that the project was originally submitted with desert landscaping and the City planning staff decided that the detention pond (which is 20,000 sq. ft.) should not be cobbled, rather, it should be landscaped. Their final decision is that the detention pond is a separate tract and can be approved "with turf or substantial xeriscaping material which minimizes the use of gravel or cobble". Mr. Cranston originally talked with Ute's staff and was told no. He then made those comments at the planning commission meeting, with no acceptable results. The approval of his project by the planning commission is predicated upon either turf or xeriscape.

In answer to a question from Mr. King, Mr. Cranston explained that the only irrigation water that might be available would be at Paradise Hills, which is at least one-half mile west of the proposed industrial development.

Motion to deny the request for an irrigation tap to Gregg Cranston, in keeping with District policy, made by James Burkhalter, second by Ronald Jaynes, with Mr. King and Mr. Jackson voting NAY and Mr. Currier ABSTAINING.

U.S.G.S. GAUGING STATION ON PLATEAU CREEK

The Manager reported that the District has received a request from the U.S. Geologic Survey for permission to install a gauging station on District property at the mouth of Plateau Canyon (the Ostranger property). The site is very close to Big Wash and will not interfere with the operation of the new pipeline. **COLORADO GEOLOGICAL SURVEY**

SUBMITTAL FORM FOR LAND-USE REVIEWS

County:	MEST Date:	2 28 01					
Project Name:	NOIZTH CIZEST INDUSTRY	L PAZK					
(or App	<u>APPLICANT</u> licant's Authorized Representative responsible	for paying CGS-review fee)					
Name:	NORTH CREST LLC						
Address: ROUTE 2 Box 81							
	METRINO CO BOTAL						
Phone No.:	241-4000 FAX No.:	241-4015					
	FEE SCHEDULE						
Reviews for	FEE SCHEDULE	Prepayment*					
Reviews for Small Subdivis	FEE SCHEDULE Counties ion (less than 10 dwellings or 20 acres)	Prepayment* \$ 485 \$ 595					
Reviews for Small Subdivis Large Subdivis Very Large or 0	FEE SCHEDULE Counties ion (less than 10 dwellings or 20 acres) ion (more than 10 dwellings or 20 acres) Complex Subdivision	Prepayment* \$ 485 \$ 595 At hourly rate of reviewer					
Reviews for Small Subdivis Large Subdivis Very Large or 0 Reviews for	FEE SCHEDULE Counties ion (less than 10 dwellings or 20 acres) ion (more than 10 dwellings or 20 acres) Complex Subdivision Municipalities	Prepayment* \$ 485 \$ 595 At hourly rate of reviewer At hourly rate of reviewer					

* Important: a \$25 processing fee will be added to invoice if not prepaid.

CGS LAND USE REVIEWS

Geological studies are required by Colorado counties for all subdivisions of unincorporated land into parcels of less than 35 acres, under State statute C.R.S. 30-28-101 et seq. (Senate Bill 35, 1972). Some Colorado municipalities require geological studies for subdivision of incorporated land. In addition, local governments are empowered to regulate development activities in hazardous or mineral-resource areas under C.R.S. 24-65.1-101 et seq. (House Bill 1041, 1974) and C.R.S. 34-1-301 et seq. (House Bill 1529, 1973), respectively.

Local-government agencies submit proposed subdivision applications and supporting technical reports to the Colorado Geological Survey "...for evaluation of those geologic factors which would have significant impact on the proposed use of the land," in accordance with State statutes. The CGS reviews the submitted documents and serves as a technical advisor to local-government planning agencies during the planning process. Since 1984, the CGS has been required by law to recover the full direct cost of performing such reviews.

The adequate knowledge of a site's geology is essential for any development project. It is needed at the start of the project in order to plan, design, and construct a safe development. Proper planning for geological conditions can help developers and future owners/users reduce unnecessary maintenance and/or repair costs.

Colorado Geological Survey 1313 Sherman St., Rm. 715, Denver, CO 80203 Phone (303) 866-2611, Fax (303) 866-2461 White copy to CGS Yellow copy to Planning Agency Pink copy to Applicant

g.Nurd\application_form.xls created 03/16/98; revised 03/16/98 http://www.dnr.state.co.us/geosurvey

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CITY GRAND JUNCTION COMMUNITY DEVELOPMENT DEPARTMENT 250 NORTH 5TH STREET GRAND JUNCTION CO 81501

СC

COMMUNITY DEVELOPMENT CITY OF GRAND JCT 250 N 5TH ST GRAND JUNCTION, CO 81501

Ai301%2628



PLANNING COMMISSION REVIEW SCHEDULE

MARCH 2001

16

- FRIDAY Comments due from review agencies
- 21 WEDNESDAY Review Agency comments to petitioner; may be picked up <u>AFTER</u> 4:00 p.m.
- 26 MONDAY Petitioner may pick up Public Hearing sign
- 30 FRIDAY Response to comments due from petitioner at 5:00 p.m. (NO EXCEPTIONS!!)

<u>PETITIONER</u> MUST POST PUBLIC HEARING SIGN (*) ON SITE <u>NO LATER</u> THAN THIS DATE, OTHERWISE YOUR ITEM WILL NOT BE SCHEDULED ON THE NEXT AGENDA.

(*) \$50.00 deposit required for Public Hearing sign - deposit will be refunded, in full, if sign(s) are returned within <u>5 working days</u> after the final meeting.

APRIL 2001

9

- 3 TUESDAY Legal ad appears in the Daily Sentinel Newspaper
- 5 THURSDAY STAFF REPORT, WITH RECOMMENDATIONS, WILL BE AVAILABLE TO PETITIONER AND/OR REPRESENTATIVE <u>AFTER</u> 12:00 NOON.
 - MONDAY Display ad appears in the Daily Sentinel Newspaper

Public may access CITYDIAL @ 244-1500 Ext. 211 to receive a faxed copy of the agenda.

10 TUESDAY Planning Commission meeting - 7:00 p.m., 250 N 5th St Projects might be reassigned if a second Planning Commission meeting is necessary.

REMAINDER OF SCHEDULE APPLIES ONLY TO THOSE ITEMS REQUIRING CITY COUNCIL ACTION

20 FRIDAY

Appeal deadline (if necessary) - Appeal must be submitted in writing to the Community Development Department @ 250 N 5th St. Verify appeal deadline and City Council dates with your Project Planner.

MAY 2001

2 WEDNESDAY

City Council meeting at 7:30 p.m. – 1st Reading, City Auditorium 250 N 5th St.

16 WEDNESDAY

City Council meeting at 7:30 p.m. – 2nd Reading, City Auditorium 250 N 5th St.

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF RETURN ADDRESS

	COMPLETE THIS SECTION ON DELIVERY
SENDER: COMPLETE THIS SECTION	
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to: K. C. SCOH Family ETD Partner 4155 E. Jewell and steam Denver, CO. SODDZ 	A. Received by (Please Print Clearly) B. Date of Delivery C. Signature
2. Article Number (Copy from service label) 1099 34	100 001 1654 2754
PS Form 3811, July 1999 Domestic Rei	tum Receipt 102595-00-M-0952



REVIEW SENCY COVER SHEET

FILE NO. PD- 2001-057

Community Development Department 250 North 5th Street, Grand Junction, CO 81501 (970)244-1430

Petitioner Please Fill In: Petitioner Please Fill In: **Review Agency** PROPOSAL North Crest Public Service LOCATION H Road West of 3D Systems ENGINEER/REPRESENTATIVE Brian Hart - LANDesign Return to Community Development Dept By 3100 PETITIONER _____ North Crest LLC Route 2 Box 81 Merino 000 ADDRESS Staff Planner CO 80741 PHONE NO (970) 241-4000 COMMENTS - For Review Agency Use Only ELECTRIC: Grand Valley Power service area. 0 objections. 13. Bit RECEIVED MAR 14 COMMUNITY DEVELOPMENT nEP1. Use Additional Sheets If Necessary And Refer To File Number REVIEWED BY JOHN Salazar PHONE 244-2781 DATE 3-13-0



REVIEW GENCY COVER SHEET



Community Development Department 250 North 5th Street, Grand Junction, CO 81501 (970)244-1430

Petitioner Please Fill In:	Petitioner Please Fill In:
Review Agency	PROPOSALNorth Crest
Walker Field	LOCATION H Road West of 3D Systems
	ENGINEER/REPRESENTATIVE
	Brian Hart - LANDesign
Return to Community Development Dept By 311001	PETITIONER North Crest LLC
Staff Planner Rell	ADDRESS Route 2 Box 81 Merino
	CO 80741 PHONE NO (970) 241-4000
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WALKER FIELD AIRPORT AUTHORITY 2828 Walker Field Drive, Suite 211 • Grand Junction, CO 81506 (970) 244-9100 • FAX: (970) 241-9103 • www.walkerfield.com

March 13, 2001

Community Development Department City of Grand Junction FILE NO: PP-2001-057; North Crest



Walker Field Airport Authority has reviewed the proposed North Crest development. This development lies within the Airport Influence Area and between the 65 and 75 DNL noise contours but is outside the critical zones as identified in the Airport Master Plan. Since the location of the development appears to be within the 65 and 75 DNL noise contours, the Airport Authority requests a layout plan of the development showing the location of the long range noise exposure contours as identified in the Airport Master Plan before the Airport Authority makes its final determination of comments to the City. Any noise intrusion might be mitigated with appropriate design and construction methods if required. Additionally, if this development is approved and due to the close proximity to the Airport, we suggest that each individual lot applicant submit a Federal Aviation Administration form 7460-1 to the Denver Airports District Office for their review. Their office can be contacted at (303) 342-1251.

The Walker Field Airport Authority requests that an Avigation Easement specific to this property be filed with the City of Grand Junction with a copy provided to the Airport Authority.

All exterior lighting must be downward directional and lighting elements must be chosen to reduce or eliminate any possible glare that might affect aircraft operations.

Thank you for this opportunity to comment.

Gary Mancus

Properties Manager



REVIEW ... GENCY COVER SHEET

FILE NO. PP-2001-057

Community Development Department 250 North 5th Street, Grand Junction, CO 81501 (970)244-1430

Petitioner Please Fill In: Petitioner Please Fill In: **Review Agency** PROPOSAL North Crest LOCATION H Road West of 3D Systems **GVRP** ENGINEER/REPRESENTATIVE Brian Hart - LANDesign Return to Community Development Dept By 311601 PETITIONER North Crest LLC Route 2 Box 81 Merino ADDRESS Staff Planner CO 80741 PHONE NO (970) 241-4000 COMMENTS - For Review Agency Use Only 1.) MAY NEED EASEMENT ALONG EAST SIDE OF PROJECT TO KLLESS EXISTING UNDERGROUND POWE LINE, (30 COMMUNITY DEVELOPMENT Use Additional Sheets If Necessary And Refer To File Number REVIEWED BY PERRY RUPP PHONE 242-0040 DATE 3-6-01



Petitioner Please Fill In:

Review Agency

REVIEW AGENCY COVER SHEET

E

Community Development Department 250 North 5th Street, Grand Junction, CO 81501 (970)244-1430

Petitioner Please Fill In:
PROPOSAL <u>North Crest</u>
LOCATION <u>H Road West of 3D Systems</u>
ENGINEER/REPRESENTATIVE
Brian Hart - LANDesign
PETITIONER North Crest LLC

FILE NO. PP-2001-657

Route 2 Box 81 Merino ADDRESS CO 80741 PHONE NO (970) 241-4000

BL Staff Planner

COMMENTS - For Review Agency Use Only

City Community Development

Return to Community Development Dept By 3110101

Use Additional Sheets If Necessary And Refer To File Number

REVIEWED BY

PHONE

DATE _____









From:	Bill Nebeker
To:	Rick Dorris
Date:	3/20/01 9:40AM
Subject:	North Crest

I assume that you'll be changing your comments #1 and 9. See my comments for wording on commercial street section. Maybe you should ask, Who is AI?

Also you should really enter your comments into impactAP as draft comments, rather than entered so they don't accidently go out in their draft form.

bill

STATE OF COLORADO

COLORADO GEOLOGICAL SURVEY Division of Minerals and Geology

Department of Natural Resources 1313 Sherman Street, Room 715 Denver, Colorado 80203 Phone: (303) 866-2611 FAX: (303) 866-2461

March 26, 2001

MAN & 9 2001

Riel

COMMUNITY DEVELOPMENT DEPT.

Mr. Bill Nebeker City of Grand Junction Community Development Department 250 North 5th Street Grand Junction, Colorado 81501



MA-01-0013





Bill Owens Governor

Greg E. Walcher Executive Director

Michael B. Long Division Director

Vicki Cowart State Geologist and Director

Re: Proposed North Crest Industrial Park: North of H Road, South of Landing View Lane and Immediately West of the 3D Systems Facility, Walker Field Airport Area, Grand Junction

Dear Mr. Nebeker:

At your request, we have reviewed the materials submitted for and made a field inspection of the site of the proposed industrial park indicated above. The following comments summarize our findings.

(1) The general surficial geology of this site consists of clayey surficial sheetflood alluvium(s) derived from drainages the source of which was near or at the base of the Book Cliffs. The Book Cliffs are composed of shales and sandstones of the Mancos and Mesa Verde Formations. The thickness of these surficial materials is not known but they may be quite thick as seen in the modern arroyo which has downcut them immediately to the east of this parcel. It is also possible that they may be relatively thin in places as evidenced by the small low shale hill about 500 yds to the west of the parcel. The parcel slopes gently to the south and southwest except where it is incised by the indicated arroyo. Because of episodic shallow flooding across this parcel and the soils and bedrock types present, there is a shallow perched water table across the entire parcel. The overall surface drainage is poor and the drainage, both surface and subsurface, has been adversely affected by runoff from the Walker Field runways and the industrial development areas that are immediately to the north of Landing View Lane.

(2) Development of this parcel as planned will be problematical because of the indicated soils and drainage conditions.

NOTICE OF DEVELOPMENT APPLICATION

An application for the development proposal described below, located near property you own, has been received by the Grand Junction Community Development Department. The Department encourages public review of proposed development to public hearings. The application, including plans, reports and supporting documentation, is available for review of going normal business hours (7:30 a.m. - 5:30 p.m. Monday-Friday) at City Hall, 250 North 5th Street. City Planning staff is also available to answer questions and explain the development review process.

PP-2001-057 PRELIMINARY PLAN - NORTH CREST INDUSTRIAL PARK- H Rd, West of 3D Systems Request for approval of a Preliminary Plat to subdivide 20 acres into 11 lots in an I-O (Industrial Office) zoning district. Planner: Bill Nebeker

Courtesy notification cards will be mailed to adjoining property owners prior to a public hearing on this item. However, we encourage you to also verify scheduling in one of the following ways:

- call the Community Development Department at (970) 244-1430
- Ck for a display ad in the Daily Sentinel one day prior to the public hearing (held on the second and sometimes the third cesday of each month)
- You may receive a FAX copy of the Planning Commission agendas by calling CITY DIAL at (970) 244-1500 ext. 211.
- Agendas for Planning Commission, City Council, and Board of Appeals items are available prior to the hearing at City Hall, 250 North 5th Street.

Please do not besitate to contact the Community Development Department at (970) 244-1430 if you have any questions.

Grand Junchon Community Development Department. The Department encourages public review of proposed development print to public hearings. The application, including plans, reports and supporting documentation, is available for review on gnormal business hours (7:30 a.m. - 5:30 p.m. Monday-Friday) at City Hall, 250 North 5th Street. City Planning staff is also available to answer questions and explain the development review process.

> PP-2001-057 PRELIMINARY PLAN - NORTH CREST INDUSTRIAL PARK- H Rd, West of 3D Systems Request for approval of a Preliminary Plat to subdivide 20 acres into 11 lots in an I-O (Industrial Office) zoning district. Planner: Bill Nebeker

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- Agendas for Planning Commission, City Council, and Board of Appeals items are available prior to the hearing at City Hall, 250 North 5th Street.

Please do not heritate to contact the Community Dural mouth Down to (070) 214 \$ 120 if Low and it

Mr. Bill Nebeker March 26, 2001 Page 2

(2a) The clayey soils on this parcel are most likely low bearing strength and will be prone to settle if subjected to relatively heavy or concentrated structural loads. For industrial-building construction, a reinforced concrete mat-on-grade system might be used to offset this condition for realatively light weight buildings with large footprints by widely distributing their structural loads on the underlying soil. An alternative might be a conventional shallow foundation system that places footings and pads on properly compacted structural fill after overexcavation of the native materials. In any instance, building sites should be investigated, in detail, by a qualified soils and foundation engineer prior to selecting a foundation design and commencing construction. This should include drilling and possibly trenching of the near surface soils followed by field and laboratory testing to determine their physical characteristics.

(2b) The surface and subsurface drainage across this site is fair to poor. This is because of the indicated historic and modern sheetflooding and the effects of the airport and industrial development to the north of the site. Depending on what is specifically planned to be placed on each of the proposed lots, moderate to extensive drainage improvements probably will be advisable to absolutely necessary. This may include installation of a subsurface underdrain system and redirecting surface drainage from Walker Field away from this site.

(3) Because of the indicated conditions, this will not be a problem free site for industrial development. From the submitted materials, which include a proposed lot-layout plan, topography, and a generalized drainage-control plan, it can be deduced that the developer is aware of the need for surfacedrainage control. What is not clear is whether there will be a commitment for additional soils and foundation engineering and probably drainage-control improvements after the specific development plans for the individual building sites are developed. Typically, industrial developments create large impervious areas (e.g. parking lots and large roof square footages) which can alter the on-lot and down-gradient drainage significantly. The runoff from this project area could, if not adequately controlled, adversely affect the *Crossroads* development to the south and possibly other future contiguous or nearby developments.

Sincerely, James M. Soule Engineering Geologist From:Bill NebekerTo:Rick DorrisDate:3/6/01 9:41AMSubject:North Crest Industrial Park

I don't know who you've assigned this project to yet, but please forward this to them.

With the uses that are allowed in the I-O zone I believe the commercial street section that includes sidewalks is the more appropriate street section for North Crest Drive and Court. I will be including this as my review comment unless told to do so otherwise.

CC: Kathy Portner; Pat Cecil



July 3, 2001

City of Grand Junction Planning Commission c/o Community Development Department City of Grand Junction 250 North 5th Street Grand Junction, CO 81501

Re: Amendment to the Approved Preliminary Plan North Crest Industrial Park Subdivision File No. #PP-2001-057

Dear Planning Commission Members:

Please accept this letter on behalf of the petitioner for North Crest Industrial Park Subdivision. On April 10, 2001 the City of Grand Junction Planning Commission approved the project with 5 conditions. This correspondence is submitted to you requesting an amendment to condition of approval number 3.

The condition of approval states the following, "The detention pond in Tract A shall be improved with turf or substantial xeriscaping material, which minimizes the use of gravel or cobble at Final approval rather than a more unsightly alternative". The petitioner is requesting an amendment to this condition because no source of irrigation water is available. This is because no traditional irrigation water is available to the site and because Ute Water Conservancy District has determined that no tap will be granted for irrigation purposes. A copy of the May 9, 2001 Ute Water Board Meeting minutes is included with this letter that summarizes the denial of the petitioner's irrigation tap request.

The reason for the requested amendment to the condition is because the petitioner has exhausted all options available in providing reliable irrigation water supply to the detention pond. In addition, because substantial irrigation supply is required to sustain turf landscaping or even xeriscaped landscaping as mentioned in the condition, the petitioner feels they can not comply with the condition as written. Therefore, the petitioner respectfully requests that condition of approval number 3 be deleted from the Preliminary Plan approval.

Respectfully,

Buenchas Brian C. Hart, P.E.

cc: Gregg Cranston



CITY GRAND JUNCTION COMMUNITY DEVELOPMENT DEPARTMENT 250 NORTH STHEET GRAND JUNCTION CO \$1501

> COMMUNITY DEVELOPMENT CITY OF GRAND JCT 250 N 5TH ST GRAND JUNCTION, CO 81501

A1501%282A

PLANNING COMMISSION NOTICE OF PUBLIC HEARING

DATE: APR 1 0 2001

TIME: 7:00 p.m.

PLACE: City Hall Auditorium, 250 North 5th Street

A petition for the following request has been received and tentatively scheduled for a public hearing on the date indicated above.

If you have any questions regarding this request or to confirm the hearing date, please contact the Grand Junction Community Development Department at (970) 244-1430 or stop in our office at 250 North 5th Street.

PP-2001-057 PRELIMINARY PLAN - NORTH CREST INDUSTRIAL PARK- H Rd, West of 3D Systems Request for approval of a Preliminary Plat to subdivide 20 acres into 11 lots in an I-O (Industrial Office) zoning district. Planner: Bill Nebeker

PP-2001-057 NORTH CREST APRIL 3, 2001 Rick Dorris

ROUND TWO

MISCELLANEOUS

- 1. This property does have significant offsite improvements to be constructed according to City and professional engineering standards. The City understands that this imposes additional cost to the development. However, the ZDC requires these improvements be constructed by the applicant. Please refer to the following code citations.
 - 6.2.A.1 "Public Improvements. The improvements described in this section must be built by the applicant and constructed in accordance with adopted standards." Listed below this are "a. roads, streets, and alleys" and "b. Sanitary sewer pipes and facilities."
 - 6.2.B.1.d "Streets, alleys, sidewalks, trails and bikepaths shall be constructed in accordance with applicable City standards. If needed to provide safe and adequate access and circulation for residents, visitors, users and occupants, the applicant shall provide off-site infrastructure."

Granted the section you cited refers to half-street improvements; however, this development requires improvements to both sides of H Road. Consequently, both sides, and the existing H road, must be improved to adopted standards. Another option would be to prove that the existing road meets City standards.

- 2. 3D systems was developed in the county. Evidently, they didn't required extension of the sewer line. The code sections cited above apply here as well. The sewer must be extended for this development to have the necessary sanitary sewer service.
- 3. The sanitary sewer manhole near the south end must still be in the street. This avoids having sanitary sewer at acute angles under concrete which could unnecessarily increase replacement costs.


CITY OF GRAND JUNCTION COMMUNITY DEVELOPMENT DEPARTMENT 250 N 5TH STREET GRAND JUNCTION, CO 81501

> COMMUNITY DEVELOPMENT CITY OF GRAND JCT 250 N 5TH ST GRAND JUNCTION, CO 81501

NOTICE OF DEVELOPMENT APPLICATION

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RECEIVED

APR 9 2001 COMMUNITY DEVELOPMENT DEPT.

DF///IX 4000, Inc.

Gregg L. Cranston Broker Associate GRI, CRS

4/9/01

Greg Trainer-Public Works 240 N. 5th. City of Grand Junction, Colorado 81501 RE: File #PP20-1-57, North Crest Industrial Subdivision

Dear Sir-.

We are facing what we believe is an undue financial burden regarding the extension of Sewer from our proposed project to the existing line currently located in H Rd. at the SE comer of 3-D Systems property.

At the time that 3-D System's site was developed sewer was brought to, but not across, the width of their property to the west side. We believe this was contrary to the City's own development policy at that time. To our knowledge nothing has changed with regard to the City's policy on sewer extension since then. Per that policy we are being required to (as we expected) to connect to sewer and take our sewer completely across our property so the owner to the west of us will be able to hook on in the future.

However, in the interest of fairness, we believe that we are being unfairly financially burdened by the being forced to bear the full cost of extending this sewer line across another developer's property who did not comply with the then existing City Policy at the time of that development. In looking through that development file we found nothing exempting them from doing so.

We are talking about approx 600' to construct this portion of the sewer which was not installed by the prior developer. We estimate that the cost of this section of line including actual construction, traffic control for shutting down H Rd, tearing up and replacing H Rd, may well cost us \$40,000 to \$50,000. This is cost that, by City policy, we believe should have been borne by the prior developer.

This failure to extend the sewer line across the 3 D property was known to the City at the time and for what ever reason allowed without any provision to offset these cost to future users (us being next to develop).

We believe that this placed an undue and unfair financial burden on us which we are now asking the City to help mitigate these costs in some form.

Respectfully. Cranston

POA for Kay Scott, North Crest Development, LLC

Cc: Land Design, Kay Scott, File & Nebeker

 3401 N. 1st Street
 Grand Junction, CO 81501

 Office: (970) 241-4000
 Fax: (970) 241-4015
 Res: (970) 241-7248
 Toll Free: (800) 777-4573

Original at Stract Title Co.

	POW ('ER OF ATTORNEY REAL ESTATE)	
KNOW ALL MEN	BY THESE PRESENTS,	, that I, <u>North Crest Development</u> , L.L.C	· ·
of the County of	Mesa	, State ofColorado	1412
do make, constitute and	appoint <u>Gregg L. C</u>	ranston	
County of <u>Mesa</u>		State of Colorada	, of the
my true and lawful attom	lev for me and in me		, to act as
	by for the and in my name	e, place and stead for my sole use and benefit to grant	t, bargain, sell,
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F. I-0: Industrial/Office Park

PLAN.

1. **Purpose.** To provide for a mix of light manufacturing uses, office park, limited retail and service uses in a business park setting with proper screening and buffering, all compatible with adjoining uses. This District implements the commercial/industrial and industrial future land use classifications of the GROWTH

I-0 Summary		
Primary Uses	Light manufacturing, office, commercial services	
Max, Intensity	0.75 FAR	
Max. Bidg. Size	250,000 sq. ft.	

- 2. Authorized Uses. Table 3.5 lists the authorized uses in the I-O District.
- 3. **Intensity.** Subject to the development standards in this Code, the following intensity provisions shall apply:
 - a. Non-residential intensity shall not exceed a floor area ratio (FAR) of 0.75;
 - b. Minimum lot size shall be one acre, except where a continuous commercial center is subdivided;
 - c. Maximum building size shall be 250,000 square feet, unless a conditional use permit is issued.
- 4. General Performance Standards. Effective and efficient street design and access shall be considerations in the determination of project/district intensity.
- 5. I-0 Performance Standards.
 - a. **Retail Sale Area**. Areas devoted to retail sales shall not exceed: ten percent (10%) of the gross floor area of the principal structure, and 5,000 square feet on any lot or parcel.
 - b. Loading Docks. Loading docks shall be located only in the side or rear yards.
 - c. Vibration, Smoke, Odor, Noise, Glare, Wastes, Fire Hazards and Hazardous Materials. No person shall occupy, maintain or allow any use in an I-0 District without continuously meeting the following minimum standards regarding vibration, smoke, odor, noise, glare, wastes, fire hazards and hazardous materials. Conditional use permits for uses in this district may establish higher standards and conditions.

Chapter Three Page 26 City of Grand Junction Zoning and Development Code



RECEIVED

APR 1 6 2001 COMMUNITY DEVELOPMENT DEPT.

Friday, April 13, 2001

Charlie Stockton Ute Water District 560 25 Rd. Grand Junction, CO 81505

RE: Water Tap for Irrigation of Detention Pond at North Crest Ind. Sub.

Dear Mr. Stockton:

Apparently the City will not have available the transcript from the Planning Commission meeting till at least a week from now.

In light of this let me summarize:

North Crest Development is proposing an Industrial/Office subdivision on H rd immediately west of 3 D Systems at Walker Field. We do not have delivery of irrigation water. We propose this project to be *"desert landscaped"*. At the Planning Commission Meeting 4/10/01 we recieved preliminary approval with conditions.

One of the conditions recommended by the City Planning staff and stipulated by the Planning Commission was that North Crest Development "grass" or "substantially zero scape the detention pond without the use of a lot of rock" vs. using river cobble which has no water requirement. Either of these stipulated options still require water. Obviously the grass requires substantial water. The zero scape still requires at least temporary water to get it started.

Mr. Nebeker of the City Planning staff indicated to the Planning Commission that a Ute Water Tap for this purpose would be available. I told the Commission I had talked previously to Mr. Dourity at your office and he had indicated a tap was not available for this purpose.

Gregg L. Cranston Broker Associate GRI, CRS RE/MAX 4000, Inc. 1401 North 1st Street, Grand Junction, Colorado 81501-2105 Office: (970) 241-4000, Fax: 241-4015, Toll Free: 1-800-777-4573, Cell: (970) 216-7885 Email: cranston@remax4000.com





The detention pond we are referring to is to be a separate tract to be owned and maintained by an Owners Association for the exclusive purpose of storm water detention.

City Planning contends that a tap for this purpose is in fact available from Ute Water. Your office is telling me that it is not. *I am caught in the middle*.

I would respectfully ask for a clarification of Ute Water's position on this issue in order we may know how to proceed with our project.

Sincerely,

Grego L. Cranston North Crest Development, LLC

Cc: file Land Design Bill Nebeker - City Planning

4-24-01 North Crest Heg Crawston Bilan Hout Mike Me Dill Rich Donis the need a smooth H road with good cross slope (BOTH STATES) - Exist 2023 localized depressions they can smooth these out, either by patching/overlay or cutting out the bad sections or something else that g meets the goal. - City WILL NOT pay for any of this work since they have to proce widen on both sides due to left tum lane - handesign to do fieldwork and my mit

PP-01-057

From:"Gregg Cranston" <cranston@gjrealty4000.com>To:"Bill Nebeker" <billn@ci.grandjct.co.us>Date:4/23/01 3:06PMSubject:Ute water tap - North Crest Ind. Dev.

Bill,

Friday I mailed you a copy of a reply from Ute water to my letter about irrigating the detention pond with their water. You should have it today. It is a pretty unequivical NO.

What now? I would like to get with you and Brien and discuss this. Maybe I have an idea.

Gregg Cranston.

CC:

"Brien Hart" <brianh@landesign-gj.com>

01.057

From:"Gregg Cranston" <cranston@gjrealty4000.com>To:"Bill Nebeker" <billn@ci.grandjct.co.us>Date:4/26/01 1:10PMSubject:North Crest Ind. Sub - irrig. water issue

Bill,

Don't know if you got my email a couple of days ago. I assume by now you have received the copy of the letter from Ute Water to me. They rather emphatically said no.

I would like to meet with you to try to know how to move forward.

Gregg Cranston Ph# 241-4000 ext. 328 cell 216-7885.

CC: "Brien Hart" <brianh@landesign-gj.com>



City of Grand Junction Community Development Department. 250 North 5th Street Grand Junction, CO 8150130'01 5 2 2 3 2 5

COMMUNITY DEVELOPMENT CITY OF GRAND JCT 250 N 5TH ST GRAND JUNCTION, CO 81501

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DRAFT

BOARD MEETING

#713

MAY 9, 2001

Meeting number seven hundred thirteen of the Board of Directors of the Ute Water Conservancy District and the Ute Water Activity Enterprise was called to order by Chair, Dorothy Hoskin, at 7:30 p.m. at the District Office on May 9, 2001.

ROLL CALL

Answering to roll call were Santo Bertuzzi, James Burkhalter, Bruce Currier, Wallace Downer, Dick Fletcher, Robert Gobbo, Dorothy Hoskin, Harley Jackson, Ronald Jaynes, Robert King, James Rooks and Robert Saunders.

Also in attendance were Larry Clever, Charlie Stockton, Rex Ricks, Tom Crumpton, Ralph Ohm, Bob Dyreng and Tim Moore, Ute Staff members; Rita Crumpton, Recording Secretary; Mark Hermundstad, Ute's Counsel; Patti Herland, Steve Ryken, Mike Seeley and Ed Tolen, Ute employees. Guests present: Gregg Cranston, Developer.

PUBLIC COMMENTS

There were none.

ACTION ITEMS

MINUTES

The Chair noted that each Board member had received a copy of the draft minutes of the April regular meeting in the mail previous to this meeting. She then called for additions, corrections or deletions.

Motion to approve the minutes as distributed made by Santo Bertuzzi, second by Dick Fletcher and carried.

BILLS

Bills totaling \$2,697,548.14 were presented to the Board for approval. A listing of all checks written prior to this meeting, totaling \$154,629.01, was also presented.

Motion to approve the bills for payment in the amount of \$2,697,548.14 and the checks written prior to board meeting in the amount of \$154,629.01, made by Dick Fletcher, second by Santo Bertuzzi. The Chair requested that the bills from Barnard Construction Company and Affholder, Inc. be excepted from the motion until change orders could be discussed later in the meeting. Mr. Fletcher and Mr. Bertuzzi agreed to that modification of the motion, changing the

Page Three Minutes #713

The second Order for Inclusion presented for approval encompassed several relatively isolated areas on the Redlands and in scattered sections of land near Kingsview Estates.

The Chair opened the public hearing on the Petition for Inclusion at 7:50 p.m. There were no comments and the public hearing was closed at 7:51 p.m.

Motion to adopt the Order for Inclusion for scattered properties on the west end of the Redlands and near Kingsview Estates made by Dick Fletcher, second by James Rooks and carried.

IRRIGATION TAP REQUEST - GREGG CRANSTON

The Assistant Manager explained that Mr. Cranston has submitted a proposal for a commercial subdivision to the Planning Department of the City of Grand Junction. The property is located north of H Road in the airport area, immediately west of 3D. The City Planning Department has required the construction of a storm drainage detention pond. They have also required landscaping at the pond. There is no irrigation water available. District staff has issued Mr. Cranston a letter stating that the District does not sell taps for irrigation/landscape purposes (copy attached) and the City has sent him to the board to appeal staff's decision.

Mr. Cranston explained that the project was originally submitted with desert landscaping and the City planning staff decided that the detention pond (which is 20,000 sq. ft.) should not be cobbled, rather, it should be landscaped. Their final decision is that the detention pond is a separate tract and can be approved "with turf or substantial xeriscaping material which minimizes the use of gravel or cobble". Mr. Cranston originally talked with Ute's staff and was told no. He then made those comments at the planning commission meeting, with no acceptable results. The approval of his project by the planning commission is predicated upon either turf or xeriscape.

In answer to a question from Mr. King, Mr. Cranston explained that the only irrigation water that might be available would be at Paradise Hills, which is at least one-half mile west of the proposed industrial development.

Motion to deny the request for an irrigation tap to Gregg Cranston, in keeping with District policy, made by James Burkhalter, second by Ronald Jaynes, with Mr. King and Mr. Jackson voting NAY and Mr. Currier ABSTAINING.

U.S.G.S. GAUGING STATION ON PLATEAU CREEK

The Manager reported that the District has received a request from the U.S. Geologic Survey for permission to install a gauging station on District property at the mouth of Plateau Canyon (the Ostranger property). The site is very close to Big Wash and will not interfere with the operation of the new pipeline.



PP-01-057

SPECIALTIES - LANDSCAPE DESIGN & CONSULTING

May 15, 2001

North Crest Development LLC C/O Gregg Cranston 1401 N. 1st Street Grand Junction, CO 81501

LANDSCAPE

RE: North Crest Industrial Subdivision, Grand Junction, CO

RECEIVED

MAY 1 8 700

COMMUNITY DEVELOPMENT DEPT.

Dear Gregg,

In response to your request for providing services in Landscape Design for the development of Tract A-Detention Pond Area for this project, I must address several concerns regarding the landscape comments made by the Planning Commission.

It is my understanding that there will be no water tap issued for Tract A. In that event, it is very difficult to establish any type of sustainable living landscape treatment (turf, native grasses or plantings, etc.). In order for adequate coverage of native grasses to occur given the dryness and soil type typical found in this particular area you will need a consistent water supply for at least a two to three year period for complete germination to occur. Thereafter, watering of at least once or twice a month would be necessary during the hot summer months and extended dry periods to keep the grasses viable.

Even with "Xeric" plant shrub species planted at 5 gal. sizes will need an adequate drip watering system and/or consistent water source for establishment of the roots.

The only appropriate alternative in treatment of this area would be to use a combination of rock cobbles, boulders and/or crushed decorative rock mulches to line the detention area and accentuate the visual appeal while keeping unwanted weeds from infiltrating.

If you have any further questions or comments, please contact my office and we can discuss this in more detail.

Sincerely,

Mark Gibbons Landscape Specialties of G.J., Inc

(C: Nebeller



2004 N. 12TH ST., SUITE 48 • GRAND JUNCTION, CO 81501 • (970) 243-4147 • FAX (970) 243-8515



Wednesday, June 06, 2001

Bill Nebeker City Of G.J. - Planning Dept. 240 N. 5th. Grand Junction, CO 81501

RE: North Crest Indust. Sub. Application - Ute water for detention irrigation

Dear Bill:

I just recieved copies of the Ute Water Board minutes. Here is a copy of the front page and the page we are concerned with. As you can see the answer is still - <u>No</u> regarding a Ute Water Tap for irrigation of the detention pond. Thus there is no way to meet the City's Planning approval requirement of such.

We are proceeding to prepare our final submittal to you based on what I understood your last comment to me which was: *"submit it with the requirement for the irrigation of the detention pond modified and defend your request".* We are proceeding on that basis unless we hear otherwise from you.

We assume this will be a part of the administrative decisions of the final submittal and will not have to go back to the Planning Commission. If we do have to go back to the Planning Commission, please advise us immediately and we want to do so at the earliest possible date and would hope this could be a "consent item" under the circumstance.

If we should be proceeding any differently from this I would hope for courtesy of written direction from your department or the City Attorney.

Sincerely

Grego Cranston North Crest Development LLC

cc: file Kay Scott Land Design - Brien Hart Broker Associate GRI, CRS **RE/MAX 4000, Inc.** 1401 North 1st Street, Grand Junction, Colorado 81501-2105 Office: (970) 241-4000, Fax: 241-4015, Toll Free: 1-800-777-4573, Cell: (970) 216-7885 Email: cranston@remax4000.com



From:John ShaverTo:Bill Nebeker; Kathy PortnerDate:6/26/01 5:29PMSubject:Re: Northcrest Ind Park landscaping

Bill,

We can get him back in front of the PC but only if he first tries to meet the "substantial xeriscaping" part of the condition and there is a legitimate issue on what he has proposed. PC imposed the condition to deal with the possibility that Gregg may not get a tap. Unless and until he does something to meet/discharge the condition he's stuck.

Concerning the Ute position on taps I'd suggest that we meet with Clever (yet again) to determine what happened to his agreement to work with us. Based on a meeting of a year or year and a half ago and our inclusion in the new code of a requirement that a development use irrigation water if it has it, it was my understanding that Ute was willing to soften its position on irrigation only taps. Kathy and/or Dan may have a recollection of the meeting/Ute's position different than mine but certainly we discussed the issue and Clever seemed to understand.

jps

CC: Dan Wilson; Pat Cecil; Rick Dorris

HDC == Pane1 09.03.00**GRAND JUNCTION FIRE DEPARTMENT** HYDRANT FLOU SYSTEM 10 **View Flow Test Data** esidual Hydrant 27,6002 Date 06/13/1995 Time 12:02 Make Unknown ocation Sundstrand Industries ain Size Test Reason low Duration min Tester Nage # FLOW HYDRANT 2 3 tatic Pressure Id 71.9 psi Hake Unknown esidual Pressure Diameter Coefficient 2-1/2 In 60.0 psi 1.000 rojected Flows: Pitot Gage # C 20 psi 4226 gpm Reading 98.0 psi C 30 psi 3756 gpm Flow 1846 gpm - Total Flow 1846 gpm lenarks Enter Hydrant and Test Date and Press Enter Key to View Flow Test Data. Press 66 to Print Data. Press DIS to Change Data. Press End to Return to Previous Screen. 12:42:2: To: BRIZN HART FROM; HANK MASTERSON BRIDN, THIS IS THE MOST RECENT AND THE NEOREST FLOW DATA WE HAVE. FIRE DEPT UTE SHOULD BE ABLE TO PROVIDE UP TO DATE DATA FOR YOUR PROJECT.

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10:58

From:Dan WilsonTo:Bill Nebeker; John Shaver; Kathy PortnerDate:6/27/01 8:39AMSubject:Re: Northcrest Ind Park landscaping

My memory is a tad bit I'm close but with a slight twist: I don't think Clever is the problem, we are. My recollection is that "we" had agreed to get back with them with a map of the areas of the Valley that can't get irrigation water, along with our draft of an agreement and then we meet with staff, in preparation for a followup with the Board.

Greg and I talked recently about getting this work done, to put this issue to bed ...

CC: Greg Trainor; Pat Cecil; Rick Dorris

LANDesign INGINEERS • SURVEYORS • PLANNERS 244 N 7 th STREET – GRAND JUNCTION, CO 81501 970) 245-4099 FAX: (970) 245-3076		GRAND JUNCTION, CO 81501 FAX: (970) 245-3076	LETTER OF TRANSMITTAL		
O: Bill Nebeker / Kathy Portner Community Development Dept.		r / Kathy Portner Development Dept.	Date: 7/3/01 Job No: 201069.40 Attention: RE: North Crest Industrial Park Subdivision		
VE ARE Γ		YOU Attached via: Fax the fol	owing items:		
D	Copy of	etter Change Order	s 🗌 Samples 🔲 Specifications		
opies	Copy of Date	etter Change Order	s Samples Specifications		
	☐ Proj. Su. Date 7/3/01	omittal L Prints L Plan letter Change Order Amendment to Preliminary Plan	s Samples Specifications		

☐ For your Approval ⊠ For your use ☐ As requested Prints returned after loan to us For review and comment

REMARKS:

Bill,

Please let me know ASAP when this amendment request will be scheduled for Planning Commission Hearing. Thanks,

Brian

RECEIVED

JUL 0 3 2001

COMMUNITY DEVELOPMENT DEPT.

SIGNED: Brundchs

COPY TO:

CITY OF GRAND JUNCTION

HEARING DATE: July 24, 2001

PLANNING COMMISSION

E.

STAFF PRESENTATION: Bill Nebeker

AGENDA TOPIC: Preliminary Plat - Amendment to Condition – North Crest Industrial Park located north side of H Road west of 3d Systems at the 27 ³/₄ Road alignment; File #PP-2001-057.

SUMMARY: The applicant requests to amend a condition of preliminary plat approval for North Crest Industrial Park to eliminate the need for a landscaped detention pond. The reason for the request is that Ute Water has refused to issue a tap solely for landscaping purposes. Staff recommends Planning Commission's consideration of this request.

ACTION REQUESTED: Decision on request to amend preliminary condition.

BACKGROUND INFORMATION				
Location:		North side of H Road west of 3d Systems (27 ³ / ₄ Road alignment)		
Applicants:		Brian Hart, LANDesign for Gregg Cranston of North Crest LLC		
Existing Land Use:		Vacant		
Proposed Land Use: Industrial		Industrial		
	North	Vacant		
Surrounding Land	South	Vacant		
Use:	East	Industrial (3D Systems) & vacant		
	West	Agricultural		
Existing Zoning:		I-O (Industrial Office)		
Proposed Zoning: No change propos		No change proposed		
	North	I-O		
Surrounding Zoning:	South	I-O		
	East	I-O		
	West	I-O		
Growth Plan Designation:		Commercial/Industrial		
Zoning within density range?		NA Yes No		

Staff Analysis:

On April 10, 2001 the Planning Commission approved the preliminary plat for North Crest Industrial Park, an 11-lot subdivision on 20 acres in an I-O (Industrial Office) zone district. The following conditions were imposed on the development:

- 1. The 65 Ldn Noise Contour shall be shown on the final plat with a note referencing the conditional use permit's required in Table 7.3.
- 2. No lots within this subdivision shall have direct access to H Road. A note to this effect shall be placed on the final plat.
- 3. The detention pond in Tract A shall be improved with turf or substantial xeriscaping material, which minimizes the use of gravel or cobble at Final approval rather than a more unsightly alternative.
- 4. The applicant shall bring the existing asphalt on H Road up to city standards, as per the city engineer's comments, adjacent to this development. This can be accomplished with removal and reconstruction or overlay to provide a smooth profile. This condition does not include curb, gutter or sidewalk on the south side.

At the hearing the applicant had concerns with condition #3 regarding the landscaping of the detention pond. There is no irrigation delivery system available to the property and previous discussions with Ute Water were not positive in relation to the district granting a tap solely for irrigation purposes. Following the Planning Commission hearing, Mr. Gregg Cranston, the owner/developer, made a formal request before the Ute Water Board at their meeting of May 9, 2001. At that meeting the board denied the request for a tap for irrigation purposes. Mr. Cranston has now filed this request to delete the condition from preliminary plan approval.

The City's Stormwater Management Manual (SWMM) does not require a landscaped detention pond. The manual allows that the pond be treated with an alternative, at the developer's discretion. However the Planning Commission imposed the condition of landscaping due to the proximity of the detention pond along a major street frontage and due to the I-O zone district which promotes a mix of uses in "a business park setting with proper screening and buffering." There was considerable discussion at the April 10th hearing regarding this issue. See attached minutes for further information.

The City has had discussions with Ute Water on this issue. The Zoning and Development Code was amended to provide the following provision in regards to irrigating required landscaped areas: "Non-potable irrigation water shall be used unless the Director allows the use of potable water." (6.5.B.6.a) However to date the City has been unable to come to an agreement with Ute Water to amend their policy.

The applicant has submitted the attached letter requesting that the condition be deleted since Ute will not grant a tap. There are alternatives to irrigation other than a Ute tap but these alternatives may be onerous for the applicant. Some of these alternatives are as follows:

• Trucking water to the site for direct watering or the filling of a cistern. Xeriscaping, once established on site, would use minimal water.

• Eliminating the tract and providing the pond in an easement on a buildable lot; then using the Ute Water tap for that lot to irrigate the landscaping in the detention pond. The drawback to this option is that development of the lot may not coincide with construction/landscaping of the pond.

• Providing various colors or sizes of non-plant materials in the pond and/or moving the detention pond to a less public location, such as to the north or west of lot 1.

The applicant may have additional options to present at the hearing.

RECOMMENDATION: Delete or modify condition #3 of preliminary plan approval for North Crest Industrial Park.

ATTACHMENTS:

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- 1. Letter request from applicant
- 2. Ute Water Board minutes of May 9, 2001
- 3. Planning Commission minutes of April 10, 2001
- 4. Aerial photo/vicinity map
- 5. The preliminary plat

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for copy

MOTION: (Commissioner Binder) "Mr. Chairman, on item CUP-2001-097, I move that we approve the variance of the Conditional Use Permit for the proposed telecommunications tower on Melody Lane, finding it in conformance with the Growth Plan and Section 2.1.3 and 2.1.6 of the Zoning and Development Code."

Commissioner Nall seconded the motion. A vote was called and the motion failed unanimously by a vote of 0-7.

A brief recess was called at 9:56 P.M. The public hearing reconvened at 10:04 P.M.

PP-2001-057 NO	ORTH CREST INDUSTRIAL PARK—AMENDMENT TO CONDITION
A request to am	end Preliminary Plan condition regarding the landscaping of the detention pond.
Petitioner:	North Crest LLC, Gregg Cranston
Location:	North side of H Road, west of Walker Field Airport
Representative:	LANDesign, Brian Hart

PETITIONER'S PRESENTATION

Gregg Cranston, petitioner, said that condition 3 of the approved Preliminary Plan required water to the detention pond for irrigation/landscaping purposes. Because irrigation water is unavailable from Ute Water for this purpose, he had appealed Ute's original denial to its Board of Directors but the denial was upheld. With no other water provision option available, Mr. Cranston asked that condition 3 be waived.

QUESTIONS

Commissioner Dibble asked if the condition were deleted, what landscaping would be placed in the pond? Mr. Cranston said that he'd approached a landscape architect and a nursery representative for ideas. He passed out copies of a letter from Dennis Hill, nursery manager at Bookcliff Gardens, who said that without a reliable water source, the only practical alternative is lining the pond with either gravel or cobble. A similar letter had been received (copies also distributed) from Mark Gibbons of Landscape Specialties. Mr. Cranston proposed laying down a weed barrier underneath some type of rock lining. He'd thought about bringing in colored gravel, but silt deposits, he said, would effectively eliminate any aesthetic benefit of the colored stone.

STAFF'S PRESENTATION

Bill Nebeker presented an aerial photo of the site. He noted that the adjacent business, 3D Systems, had a grassed detention pond because the Ute tap was used primarily for the building, not the landscaping. 3D Systems pond was not located in a separate tract. He confirmed that Ute's policy did not permit taps to be issued exclusively for irrigation purposes. Possible options, he said, included reconfiguring the detention pond or requiring a cistern.

QUESTIONS

Commissioner Dibble asked if reconfiguring the pond would solve the problem. Mr. Nebeker presented a Preliminary Plan and noted one variation (extending the pond northward along the west side of lot 1). That option, he said, would require enlarging the area of the pond.

Commissioner Binder wondered who supplied golf courses with the water they used. Mr. Nebeker said that golf courses were typically supplied with City water. Commissioner Binder said that if the pond were moved, would landscaping still be required along the H Road frontage? Mr. Nebeker acknowledged that it would.

A brief discussion ensued over whether there were other situations similar to this one within the city limits. Mr. Shaver confirmed that this situation was unique. He said the City requires that non-potable water be used if available.

PUBLIC COMMENTS

There were no comments either for or against the request.

PETITIONER'S REBUTTAL

Brian Hart, representing the petitioner, said that if the detention pond were repositioned, it would adversely impact the building envelope for Lot 1. Sewer service, he said, to that lot would also be impacted, necessitating installation of a lift station. Even if repositioned, the pond would still be visible from H Road.

Mr. Cranston confirmed that relocation of the detention pond as suggested would severely restrict Lot 1. The location of the pond along H Road is really the only viable alternative, he said.

QUESTIONS

Commissioner Dibble wondered if some type of decorative fencing could be installed along the south side of the pond along the H Road frontage. Mr. Cranston said that he would be amenable to installing some type of rail fencing. Mr. Nebeker said that if the pond could be moved back from the frontage approximately 15 feet, a landscaping easement could be placed over that 15-foot section. At the time of final platting, landscaping of the 15-foot strip with trees and shrubs could be required. If a rock or concrete block wall were then installed, the pond would be effectively screened. Maintenance of plantings along the frontage would be required.

Commissioner Binder said that screening improvements could be limited to the area along the pond, not to extend along the entire frontage of H Road.

Mr. Nebeker said that if this seemed to be the Planning Commission's preference, then the pond could stay where it was. Mr. Cranston thought that bringing in some large sandstone boulders might be aesthetically pleasing while achieving the desired screening result. The landscaping/fencing alternative received unanimous support from planning commissioners.

Chairman Elmer suggested the following alternate verbiage for condition 3: "The detention pond in Tract A shall be improved with a weed barrier and be gravel or cobble, with an architectural feature utilizing a split-rail or open-slat fence, large rocks or decorative wall to screen the pond from H Road."

MOTION: (Commissioner Putnam) "Mr. Chairman, on item PP-2001-057, I move that we approve the request, offering the following substitute verbiage for Preliminary Plan condition 3: 'The detention pond in Tract A shall be improved with a weed barrier, and gravel or cobble, with an architectural feature utilizing a split-rail or open-slat fence, large rocks and/or decorative wall to screen the pond from H Road.'"

Commissioner Binder seconded the motion. A vote was called and the motion passed unanimously by a vote of 7-0.

With no further business to discuss, the meeting was adjourned at 10:45 P.M.



EXHIBIT "A"

TYPE LEGAL DESCRIPTION BELOW, USING ADDITIONAL SHEETS AS NECESSARY. USE SINGLE SPACING WITH A ONE (1) INCH MARGIN ON EACH SIDE.

Commencing at the Southeast corner of said Section 25 whence the Southwest corner, SE 1/4, SE 1/4 of said Section bears North 88'03'49" West 1317.56 feet; thence along the East line of the SE 1/4 SE 1/4 of said Section North 01'57'20" East 30_feet; thence running parallel to the South line of the SE 1/4 of said Section North 88'03'49" West 583.60 feet to the TRUE POINT OF BEGINNING: thence North 88'03'49" West 467.65 feet; thence North 01'57'20" East 2027.63 feet; Thence South 52'54'21" East 571.87 feet; thence South 01'57'20" West 1698.33 feet to the POINT OF BEGINNING. That the owners have caused the said real property to be laid out and surveyed as NORTH CREST INDUSTRIAL PARK, a subdivision of a part of the City of Grand Junction, Mesa County, Calorado.



13654 **City of Grand Junction Department of Community Development** Date 2 Payee Name ell ane Address Telephone **Project Address/File/Name** * PLEASE CIRCLE ALL THAT APPLY DESCRIPTION * AMT DESCRIPTION* AMT DEVELOPMENT PROJECTS PERMITS 100-321-43195-13,109465 100-321-43195-13-124415 and UID 50 **Temporary Use Permit Conditional Use** Floodplain Permit **Special Use** Sign Permit (# Major Sub-ODP, Prelim, Final Special Events Permit (# **Minor Subdivision** Fence Permit (# 930 PDR - ODP Prelim Final Home Occupation Permit

(White: Customer) (Canary: Finance) n 366 + 367

Oni

ROW / Easement Vacation Replat / Property Line Adj

Variance

Site Plan Review

Minor Change

Change of Use

Planning Clearance

100-321-43195413-124450

Treasurer Receipt No.

OTHER

2071-61314-43993-30

Sign Deposit 100-21090-131840

701-905-43994

202-61314-43995-30

School Impact

Manuals, Copies, etc.

TOTAL S

100-321-43195-13-120515

Drainage

TCP

(Pink: Planning) (Goldenrod: File)

c: Brian Hart

el

GENERAL PROJECT REPORT

North Crest Industrial Park Subdivision

February 28, 2001

Submitted by:

North Crest Development, LLC. Route 2 Box 81 Merino, CO 80741

A. Project Description

North Crest Industrial Park Subdivision is located on H Road west of Walker Field and immediately west of 3D Systems. The project plans for the development of 11 lots, with a minimum lot size of 1.0 acre. A previous application for the subject property was submitted in 1997 and that application and approval has since expired. This project is separate, as it has been completely reconfigured.

B. Public Benefit

North Crest Industrial Park Subdivision will provide the area with a quality industrial-office project. This proposed development is planned and designed in accordance with the City of Grand Junction Standards.

C. Project Compliance, Compatibility, and Impact

1. Zoning and Growth Plan

The subject property is designated as Commercial/Industrial and is zoned I-O (Industrial-Office). The setbacks for the proposed project zone are consistent with the I-O zone designation.

Setbacks:

Front Yard Setback -- 15 ft, 25 ft for accessory structures Side Yard Setback -- 15 ft, 15 ft for accessory structures Rear Yard Setback -- 25 ft, 25 ft for accessory structures

2. Surrounding Land Use

Land use surrounding the property is limited to vacant land and similar industrial and commercial uses. Walker Field Airport and related industrial uses are located to the north and east, 3D Systems is located directly east and vacant land exists to the south and west.

3. Site Access and Traffic Patterns

There are no existing streets other than H Road that will serve the project. The main access will enter the project near the center of the property frontage along H Road. This road will continue north to a cul-de-sac to serve the north portions of the project and a required east-west street will connect adjacent properties.

A traffic study has been completed for this project as required and is included with this submittal. The assumptions for land use were derived from the allowed uses based on the I-O zone and a conservative, but realistic floor-area-ratio. The results of the study showed that there is a left turn lane is required into the project from H Road and right turn deceleration lane into the project from H Road. The Preliminary Plan shows the required streets improvements, including the turn lanes.

The striping for the improvements required to H Road are shown in accordance with the standard collector street. The proposed striping is shown in accordance with the traffic study and accommodates the collector street. However, the striping for the improvements constructed with 3D Systems was not done in accordance with the standard collector street. This results in costs for additional striping improvements that will be incurred by the petitioner. The petitioner respectfully requests that the City participate in the improvements since construction was not completed in accordance with City standards.

4. Utilities

All utilities will be extended from existing facilities that surround the subject property.

Sanitary sewer will be connected to the existing main located in H Road just east of 3D Systems. The sewer main will be extended along H Road to the east boundary of the property where it will run along the east boundary and eventually turn to the main access road. The sewer line is not shown along the entire frontage of the property because, even at minimum grade, the sewer line will conflict with H Road, causing the sewer line to come above the existing street grade.

It is important to note that the sanitary sewer improvements constructed with the 3D Systems project were not performed in accordance with the City of Grand Junction standards. This is evident in the fact that the sewer line that 3D Systems ties into ends near Falcon Way, near the 3D System's main entrance. For several years, the standard policy of the City of Grand Junction has required all projects to construct sewer along the project's entire frontage. This will result in extensive off-site sewer improvements that will be required for this proposed project that would normally not be needed if standard City policy was enforced for 3D Systems. The petitioner feels that this burden is unfair. Therefore, the petitioner respectfully requests that the City participate in the offsite sanitary sewer improvements.

Domestic water will be provided by Ute Water and will be connected to the 18" steel main in H Road.

All dry utilities will be extended from existing facilities adjacent to the site.

5. Effects on Public Facilities

It is not anticipated that this project will have any unusual effects on public facilities such as fire department, police station, sanitation, streets, parks, schools or irrigation.

6. Project Impact on Site Geology

It is not anticipated that this project will have an impact on site geology or current geologic conditions. At the direction of the project staff planner, this project has submitted the previous Geology Investigation, H Road pavement section design and letters from the Colorado Geologic Survey regarding the subject property. This information provides a clear picture of the geologic and geotechnical conditions of the site and is considered sufficient information for this application. This information is being submitted in place of a geotechnical report with the understanding that a Final Geotechnical Report will be submitted with the final design. A check for the application to the Colorado Geological Survey is included with this submittal.

7. Drainage

A Preliminary Drainage Report is included with this application. A detention pond is planned for the project and is located along the west boundary of the project.

D. Development Schedule and Phasing

The rate at which North Crest Industrial Park Subdivision is developed will depend on the market demand for industrial-office lots. The Preliminary Plan shows the proposed phasing for the project, which includes the first four lots on the south half of the property. It is anticipated that the first phase of the project will be submitted within 6 months of project approval. The schedule for Phase 2 is planned for a submittal 2 years after the Phase 1 Final Plan and Plat approval.



PP. 2001

GRAND JUNCTION PLANNING COMMISSION APRIL 10, 2001 MINUTES 7:05 P.M. 9:50 P.M.

The regularly scheduled Planning Commission hearing was called to order at 7:05 P.M. by Chairman John Elmer. The public hearing was held in the City Hall Auditorium.

In attendance, representing the Planning Commission, were John Elmer (Chairman), Dr. Paul Dibble, Terri Binder, James Nall, Mike Denner and Nick Prinster. William Putnam was absent.

In attendance, representing the Community Development Department, were Lisa Gerstenberger (Senior Planner), Pat Cecil (Development Services Supervisor) and Bill Nebeker (Senior Planner).

Also present were John Shaver (Assistant City Attorney), Rick Dorris and Eric Hahn (Development Engineers).

Terri Troutner was present to record the minutes.

There were approximately 30 interested citizens present during the course of the hearing.

I. APPROVAL OF MINUTES

Available for consideration were the minutes from the March 13 and March 20, 2001 public hearings.

MOTION: (Commissioner Binder) "Mr. Chairman, I move that we approve the minutes of March 13."

Commissioner Dibble seconded the motion. A vote was called and the motion passed by a vote of 4-0, with Commissioners Prinster and Denner abstaining.

MOTION: (Commissioner Binder) "Mr. Chairman, I move that we approve the minutes of March 20."

Commissioner Dibble seconded the motion. A vote was called and the motion passed by a vote of 3-0, with Commissioners Prinster, Nall and Denner abstaining.

II. ANNOUNCEMENTS, PRESENTATIONS AND/OR VISITORS

Chairman Elmer introduced and welcomed new Planning Commission member, MikeDenner. Chairman Elmer mentioned that Mr. Denner had served on the Planning Commission once before.

Items pulled from the agenda included ANX-2001-043 (Zoning the Annexation - Sage Properties Subdivision), CUP-2001-054 (Conditional Use Permit - Jenkins Floral Amended), ANX-2001-011 (Preliminary Plan - Westland Subdivision), ANX-2001-052 (Zoning the Annexation - Cantrell Subdivision), and ANX-2001-061 (Annexation/Rezone/Preliminary Plan - Flint Ridge Subdivision).

III. CONSENT AGENDA

The Consent Agenda consisted of items CUP-2001-055 (Conditional Use Permit - Standard tire), FP-2001-058 (Final Plat - Grandview Subdivision, Filings 5 & 6), and FPP-1999-280 (Correction of Zoning - Faircloud Subdivision). Clarification on item FP-2001-058 (Final Plat - Grandview Subdivision, Filings

- 1. The 65 Ldn Noise Contour shall be shown on the final plat with a note referencing the conditional use permit's required in Table 7.3.
- 2. No lots within this subdivision shall have direct access to H Road. A note to this effect shall be placed on the final plat.
- 3. The detention pond in Tract A shall be improved with turf or substantial xeriscaping material, which minimizes the use of gravel or cobble at Final approval rather than a more unsightly alternative.
- 4. The applicant shall bring the existing asphalt on H Road up to city standards, as per the from city engineer's comments, adjacent to this development. This can be accomplished with removal and reconstruction or overlay to provide a smooth profile. This condition does not include curb, gutter or sidewalk on the south side.

At the hearing the applicant had concerns with condition #3 regarding the landscaping of the detention pond. There is no irrigation delivery system available to the property and previous discussions with Ute Water were not positive in relation to the district granting a tap solely for irrigation purposes. Following the Planning Commission hearing, Mr. Gregg Cranston, the owner/developer, made a formal request before the Ute Water Board at their meeting of May 9, 2001. At that meeting the board denied the request for a tap for irrigation purposes. Mr. Cranston has now filed this request to delete the condition from preliminary plan approval.

The City's Stormwater Management Manual (SWMM) does not require a landscaped detention pond. The manual allows that the pond be treated with an alternative, at the developer's discretion. However the Planning Commission imposed the condition of landscaping due to the proximity of the detention pond along a major street frontage and due to the I-O zone district which promotes a mix of uses in "a business park setting with proper screening and buffering." There was considerable discussion at the April 10th hearing regarding this issue. See attached minutes for further information.

The City has had discussions with Ute Water on this issue. The Zoning and Development Code was amended to provide the following provision in regards to irrigating required landscaped areas: "Non-potable irrigation water shall be used unless the Director allows the use of potable water." (6.5.B.6.a) However to date the City has been unable to come to an agreement with Ute Water to amend their policy.

The applicant has submitted the attached letter requesting that the condition be deleted since Ute will not grant a tap. There are alternatives to irrigation other than a Ute tap but these alternatives may be onerous for the applicant. Some of these alternatives are as follows:

• Trucking water to the site for direct watering or the filling of a cistern. Xeriscaping, once established on site, would use minimal water.

or coloble and combined with an architerctural feature utiliting split fail or open stall feature, longe rocks, decorative CMU to screen The pond from 2 HRQ.

CITY OF GRAND JUNCTION

HEARING DATE: April 10, 2001

PLANNING COMMISSION

STAFF PRESENTATION: Bill Nebeker

AGENDA TOPIC: Preliminary Plat – North Crest Industrial Park located north side of H Road west of 3d Systems at the 27 ³/₄ Road alignment; File #PP-2001-057.

SUMMARY: The applicant requests a preliminary plat for an 11-lot subdivision on 20 acres in an I-O (Industrial Office) zone district. Future access via Al Drive will be provided to properties to the east and west, which will assist in providing better circulation in the area. Staff recommends approval with conditions.

BACKGROUND INFORMATION						
Location:		North Road	North side of H Road west of 3d Systems (27 ³ / ₄ Road alignment)			
Applicants:		Brian North	Brian Hart, LANDesign for Gregg Cranston of North Crest LLC			
Existing Land Use:		Vaca	Vacant			
Proposed Land Use:	Proposed Land Use: Industrial					
	North	Vacant				
Surrounding Land	South	vacant				
Use:	East	Indus	Industrial (3D Systems) & vacant			
	West	agricu	agricultural			
Existing Zoning:		I-O (I	I-O (Industrial Office)			
Proposed Zoning: No change prop		ange proposed	posed			
	North	I-O	I-O			
Surrounding Zoning:	South	I-O	I-O			
	East	I-O	I-O			
	West	I-O	I-O			
Growth Plan Designation:		Comr	Commercial/Industrial			
Zoning within density range?		NA	Yes		No	

ACTION REQUESTED: Decision on preliminary plat.

Staff Analysis:

The applicant requests a preliminary plat for an 11-lot industrial subdivision on 20 acres. The site is located near Walker Field Airport directly west of 3D Systems. The I-O zone allows for a variety of industrial park uses and supporting commercial uses.
<u>Airport Overlay District</u>: Approximately the north half of the property that includes all or parts of the lots in phase 2 of the subdivision lies within Subdistrict B of the Airport Overlay District. This subdistrict identifies the areas within 65Ldn to 70 Ldn noise exposure areas as shown in the Walker Field Airport Master Plan. Table 7.3 of the code requires conditional use permits for most commercial and industrial land uses within this subdistrict. No uses are proposed at this time, however the applicant has been made aware of the requirement for conditional use permits for most of the future land uses that will locate in this area. The 65 Ldn Noise Contour shall be shown on the final plat with a note referencing the conditional use permits required in Table 7.3.

<u>Access</u>: Access to lots in the subdivision is via North Crest Drive, a cul-de-sac with direct access to H Road. No lots within this subdivision shall have direct access to H Road. Future access via Al Drive will be provided to properties to the east and west. The extension of this road will improve circulation in the future as adjacent parcels are developed.

<u>Street Improvements</u>: H Road has been constructed very poorly along the frontage of this parcel. According to the City Development Engineer the road has many vertical undulations and merely adding a pavement section and curb, gutter and sidewalk will not be sufficient to provide safe and adequate access and circulation. Section 6.2.B.1.d of the Zoning and Development Code requires that "if needed to provide safe and adequate access and circulation... the applicant shall provide off-site infrastructure." Hence this developer will be required to bring H Road up to current city standards with final approval of this subdivision. See City Development Engineer's comments for more information.

<u>Drainage</u>: A detention pond sized for the entire subdivision is proposed at the southwest corner of the subdivision adjacent to H Road. Consistent with the intent of the I-O zone district to provide uses in a business park setting, this detention area shall be improved with turf at final approval rather than an alternative. Staff recommends approval with conditions.

The I-O (Industrial Office) zone district requires a minimum one-acre lot size. The-lots in this subdivision range between one acre and 2.61 acres.

See the applicant's general project report and response to comments for additional information.

STAFF RECOMMENDATION:

Approval of the preliminary plan with the following conditions:

- 1. The 65 Ldn Noise Contour shall be shown on the final plat with a note referencing the conditional use permit's required in Table 7.3.
- 2. No lots within this subdivision shall have direct access to H Road. A note to this effect shall be placed on the final plat.
- 3. The detention pond in Tract A shall be improved with turf at final approval rather than a more unsightly alternative.

4. The applicant shall bring H Road adjacent to this development up to city standards. This can be accomplished with removal and reconstruction or overlaying to provide a smooth profile. This condition does include curb, gutter or sidewalk on the south side.

NOT

RECOMMENDED PLANNING COMMISSION MOTION:

Mr. Chairman, on item 2001-057 I move that we:

Find the North Crest Industrial Park consistent with the Growth Plan and the requirements of the Zoning and Development Code and approve the preliminary plan with the conditions listed in staff's recommendation.

ATTACHMENTS:

- 1. vicinity map
- 2. aerial photo
- 3. preliminary plat
- 4. staff review comments
- 5. applicant's response to review comments
- 6. applicant's general project report

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PRELIMINARY DRAINAGE REPORT

For

North Crest Industrial Park Subdivision

Developer: North Crest Development, LLC. Route 2 Box 81 Merino, Colorado 80741 (970) 241-4000

Prepared By: LANDesign LLC 259 Grand Avenue Grand Junction, Colorado 81501 (970) 245-4099

Job Number 201008

February 28, 2001

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II. Existing Drainage Conditions4A. Major Drainage ConditionsB. Site
III. Proposed Drainage Conditions
IV. Design Criteria & Approach
VI. References

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General Location and Description

A. Site and Major Basin Location

North Crest Industrial Park Subdivision (North Crest) is located along H Road southwest of Walker Field Airport, immediately west of 3D Systems. More specifically, the project is 600 feet west of the intersection of H Road and Falcon Way. Land use in the vicinity includes light industrial uses and the airport to the north and east and vacant land to the south and west. Exhibit 1 shows the general location of the proposed project, Exhibit 4 shows the general topography of the site, Exhibit 5 shows the site plan for the project and Exhibit 6 shows the proposed grading.

The major basin is Ranchmen's Ditch system that runs from Walker Field Airport southwest through the north area of Grand Junction. The drain discharges stormwater to the Colorado River west of Mesa Mall.

B. Site and Major Basin Description

The site contains approximately 20 acres, and is currently vacant. The property has had an agricultural past and this is evident from the abandoned irrigation ditch and agricultural rows. The ground cover of the subject property can be described as pasture, short grasses and weeds. A historical drainage path runs along the west boundary of the site where it crosses to the adjacent property 250 feet north of H Road. From there stormwater runs southwest to a box culvert under H Road. A small amount of land to the northeast of the subject property will generate off-site stormwater flow in the form of sheetflow to the site.

The soils located on the site are described as Youngstown Series according to the NRCS. Exhibits 2 and 3 show the soils map and the soil description. From the description of runoff being slow to moderate and moderate erosion, the soil seems to match hydrogroup C, which will be used for the Final Drainage Report. A composite rational 'C' value will be used for the Final Drainage Report for this project.

The Ranchmen's Ditch system originates just north of Walker Field Airport, drains southwest along Horizon Drive to First Street, runs parallel to Patterson Road, drains underneath the parking lot of Mesa Mall and discharges to the Colorado River. The basin is largely developed in nature from the airport, to the commercial development along Horizon Drive and at Mesa Mall, to residential homes.

II. Existing Drainage Conditions

A. Major Basin

The Ranchmen's Ditch System drains a relatively large area of the north part of the Grand Junction urban area. The basin begins north of Walker Field Airport and conveys stormwater in a southwest direction along Horizon Drive and Patterson Road to just west of Mesa Mall where it discharges to the Colorado River. The basin conveys stormwater in an open drain in many sections and is piped in several sections as well.

The subject property is located near the very beginning of the basin and it not located near the main channel. According to the Flood Insurance Rate Map, the floodplain is not located near the subject property.

B. Site

The subject property generally drains to the southwest at approximately 1%. The property has had an agricultural past, however it has been several years since the last production of crops. There is an abandoned irrigation ditch located on the north side of the property and weathered, cultivated rows are still evident. The main drainage feature of the property is the beginnings of a historic drainage path that starts on the property and flows to the southwest to the neighboring property. Drainage continues in a more defined ditch on the neighboring property to an existing box culvert that passes under H Road.

Stormwater inflow from off-site enters the property only from the northeast as sheetflow. The adjacent property to the north flow southeast along the alignment of Landing View Lane and property to the west flows towards the above-mentioned box culvert.

The property low point is located along the west boundary approximately 250 feet north of H Road where the majority of property drains to the ditch previously mentioned. The very south sections of the site drain to a roadside that drains west towards the box culvert.

III. Proposed Drainage Conditions

A. Changes in Drainage Patterns

The historic drainage patterns will not be changed from those described in Section II-B of this report. The majority of the site will drain to a detention pond located near the existing low point of the site. From this location, the detention pond will release a controlled amount of stormwater runoff. The south portions of the site will drain south at developed rates to the existing roadside ditch or planned storm sewer to the southwest corner of the property. This will result in a lower than historic rate release from the detention pond.

A different option for stormwater control would be to create a separate detention pond for the south portions of the site. Yet another option would be for the southern two lots along H Road to use a separate, individual detention pond. This is because these two lots will not be able to drain to the northern detention pond.

B. Maintenance Issues

The maintenance of the detention ponds will be the responsibility of the Property Owner's Association. The City of Grand Junction will maintain any storm sewer that is located within the public right-ofway.

IV. Design Criteria & Approach

A. General Considerations

There have been drainage studies completed around the subject property. The Grand Valley Stormwater Management Master Plan (GV-SWMMP) covers the major basin but the subject property. There has been an earlier drainage study for the property for a previous development application. However, the project is significantly different than the previous plan and therefore requires a different report and design.

The final drainage design for this project proposed within this report shall conform to the City of Grand Junction's Stormwater Management Manual. As mentioned in section III-A of this report, this project proposes a detention pond to control runoff. As mentioned above in Section III-B, the northern 80% of the property will drain to a detention pond located near the existing low point of the property. The south 20% of the site can be handled in couple of different manners. First, the south area could drain at developed rates directly to the box culvert via the roadside ditch. This would mean that the planned detention pond would be required to restrict the release further to offset the direct discharge of the south drainage. A second option would be to create another detention pond to handle the south side drainage. A third option would be to require the two south lots to construct their own detention ponds. These facilities would then drain to the planned storm sewer along H Road.

Off-site flows are generated from adjacent property to the northeast. All other surrounding properties drain away from site.

Constraints that would affect the drainage design would be the elevation differences around the property; existing drainage patterns; offsite flows; and existing storm sewer along H Road.

B. Hydrology

The Stormwater Management Manual (SWMM) for the City of Grand Junction will be used for the preparation of the Final Drainage Report. The design storms are defined in the SWMM as the 2-year and 100-year events. As the site is within the 201 Boundary, the Grand Junction area precipitation information will be used which are outlined within the SWMM.

The rational method will be used for the hydrological analysis. If a detention pond is proposed, the pond will be designed using the modified rational method as outlined in the SWMM. If a retention facility is proposed, the SWMM outlines the design parameters for this type of facility.

C. Hydraulics

All hydraulic calculations for conveyance elements will be designed according the SWMM. It is expected that there will be minimal amounts of storm sewer other than surface conveyance elements.

The proposed storm sewer treatment method will be analyzed for capacity using the manufactures data, unless another facility is chosen.

VI. References

- 1. <u>Stormwater Management Manual.</u> (SWMM), City of Grand Junction, May 1996.
- 2. <u>Grand Valley Stormwater Management Master Plan.</u> (GV-SWMMP), City of Grand Junction, May 2000.
- 3. <u>Flood Insurance Rate Map, Mesa County, Colorado.</u> Prepared for the City of Grand Junction, Colorado and Mesa County by the Federal Emergency Management Agency, revised 1992.



NORTH CREST INDUSTRIAL PARK LOCATION MAP



North Crest Industrial Park

U. S. Department of Agriculture

Soils Conservation Service

Soils Discription Grand Junction, CO

Youngston Series

The Youngston series consists of deep, well-drained soils. These soils formed in alluvium on flood plains and alluvial fans. The slope is 0 to 3 percent, and elevation is 4,800 to 5,400 feet. The natural vegetation is mainly saltbush, rabbitbrush, galleta, and Indian ricegrass. The average annual precipitation is 9 inches. The mean annual temperature is 52° F., and the frostfree season is 160 to 175 days.

In a representative profile the surface layer is light-gray loam about 4 inches thick. The underlying layers are light brownish-gray sandy loam, very pale brown loam, and pale-brown very fine sandy loam and loam that extend to a depth of 60 inches or more.

Youngston soils have moderate permeability and a high available water capacity. They are moderately alkaline. Roots can penetrate to a depth of more than 60 inches.

These soils are used for grazing, as wildlife habitat, and as watershed areas.

Representative profile of Youngston loam, NW14 sec. 9, T. 2 N., R. 2 W., in an area of grass.

- A1-0 to 4 inches, light-gray (10YR 7/2) loam, dark gray-ish brown (10YR 4/2) moist; weak, thin, platy parting to weak, fine, granular structure; soft, very friable; calcareous; moderately alkaline; clear, smooth boundary.
- AC-4 to 8 inches, light brownish-gray (10YR 6/2) sandy loam, dark grayish brown (10YR 4/2) when moist; weak, thin, platy parting to weak, fine, granular structure; loose, very friable; calcareous; clear, smooth boundary.
- ous; clear, smooth boundary.
 C1--8 to 20 inches, very pale brown (10YR 7/3) loam, brown (10YR 5/3) when moist; weak, fine, sub-angular blocky parting to weak, fine, granular structure; slightly hard, friable; calcareous; moderately alkaline; clear, smooth boundary.
 C2--20 to 38 inches, pale-brown (10YR 6/3) very fine sandy loam, dark brown (10YR 4/3) when moist; weak, fine, subangular blocky parting to weak, fine, granular structure; slightly hard, friable; calcareous; moderately alkaline; clear, smooth boundary.
 C3--38 to 60 inches, pale-brown (10YR 6/3) loam, dark brown (10YR 4/3) when moist; massive; hard when dry, very friable when moist; calcareous; moderately alkaline.

The A1 is loam or very fine sandy loam. Coarse frag-ments make up as much as 15 percent, by volume, but commonly less than 5 percent of the soil.

Yo—Youngston loam. This soil is nearly level and is on flood plains and alluvial fans. It has the profile described as representative of the series.

Included with this soil in mapping are areas of Billings soils.

Runoff is slow to moderate. The hazard of erosion is moderate.

This soil is used mainly for grazing and as wildlife habitat. Capability unit VIe-1; Loamy Salt Desert range site.

DATE:	HQ:		REVISONS		Byr	
Soíls (Soils Discription Grand Junction, CO					
North Crest Industrial Park						
LANDesign						
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EXHIBIT 3





NORTH CREST INDUSTRIAL PARK SITE PLAN





ENGINEERING • SURVEYING • PLANNING

March 28, 2001

Bill Nebeker Community Development City of Grand Junction 250 North 5th Street Grand Junction, CO 81501

Re: Response to Comments North Crest Industrial Park Subdivision File No. #PP-2001-057

Dear Mr. Nebeker:

Please accept this letter on behalf of the petitioner for the above-mentioned project. This correspondence is intended to response to review comments received from your office on March 21. Each comment is addressed individually in an item-by-item basis.

City Community Development

- 1. Comment acknowledged. The preliminary plan has been revised to show the outline of a turn-a-around easement for Phase 1.
- 2. The detention pond has been revised to show that it is located within a tract as required. The lot layout has been modified slightly to show the detention pond along H Road with this response.
- 3. In subsequent discussions, the City has decided that the industrial road section will apply for this project.
- 4. Sanitary sewer is now shown as being extended to the west property boundary between Lots 2 and 3 in Block 1 as requested by the City Utility Engineer.
- 5. Comment acknowledged.
- 6. Comment acknowledged.

City Development Engineer

1. According to the Zoning and Development Code, section 6.2.B.2, page 4, 'Transportation Capacity Payment and Right-of-Way Improvements', the developer is responsible for either paying for or constructing halfstreet improvements along the property frontage to the current road classification. There is no requirement that a developer will be responsible for improving a road that is 'very bad shape'. The developer feels this is an unfair burden not required by code. Please see *General Comments* below.

- 2. There is no additional right-of-way required for the street improvements.
- 3. See response to Utility Engineer comments.
- 4. Comment acknowledged.
- 5. H Road cross-sections are provided as requested.
- 6. Horizontal ties are shown as requested.
- 7. The City Utility Engineer did not comment on the location of the manhole, therefore, the manhole has not been moved. The manhole is proposed in this location to eliminate the need for an additional manhole on a sewer line with a very minimal slope.
- 8. The slope for the sewer line is shown as at 0.28% at the request of the City Utility Engineer.
- 9. A signed study is included with this letter
- 10. Comment acknowledged.
- 11. Comment acknowledged.

City Utility Engineer

1. The developer understands the comments from the Utility Engineer regarding the history of the sewer line extension to the 3D Systems property. However, it does not change the fact that the City's policy has always required sewer to be extended through the project to the adjacent property at the developer's cost. This is the reason for the requirement to extend the sewer line through the proposed project to the west adjacent property. The developer has agreed to provide this sewer line as requested. In addition, the costs for the sewer line in H Road will not be limited to just \$18/foot. Additional costs will include patching H Road and traffic control, among other items, which will be significant. Please see *General Comments* below.

City Fire Department

- 1. A fire hydrant has been added as requested.
- 2. A water line is shown in Al Drive as requested.
- 3. A copy of a flow test for a nearby fire hydrant shows that there is 4226 gpm available at a residual pressure of 20 psi. This clearly indicates that there should be sufficient flow for fire protection. Ute Water has scheduled a fire flow test on the hydrant located at the southeast corner of the site, however, that flow test won't be available until after review comments are due. In a conversation with the Fire Department, Mr. Masterson stated that he is not requiring a water distribution report to determine fire flows for this application. He is aware that there is an

existing 18" water line in H Road and understands that the fire flow for this site should be acceptable.

City Addressing

1. Comment acknowledged.

Ute Water

- 1. Fire hydrants have been placed in accordance with the Fire Department.
- 2. A water line is shown in Al Drive as requested.
- 3. The allowable deflection radius is greater that the radius where the water line is located.
- 4. When the Final Plan and Plat application is submitted, the developer will consider installing larger water lines as suggested.
- 5-10. All remaining comments are standard and acknowledged.

Grand Valley Power

1. Comment acknowledged.

Walker Field Airport

- 1. The approximately 65 and 75 DNL noise contours are shown on the plan as requested.
- 2. The developer is willing to grant an avigation easement when required or with the recording of the Plat.
- 3. Comment acknowledged.

City Transportation Engineer

1. All comments acknowledged. The striping shown on the preliminary plan has been revised as requested.

General Comments

The developer feels that the requirement for an overlay of existing H Road and the initial unwillingness of the City Staff to participate in extending sewer not required of the development application for 3D Systems is an unfair burden. Because this burden will result in significant costs, the developer is requesting relief from the requirement to overlay H Road and to explore options on City participation of the sewer line extension. Please contact me regarding this request as soon as possible. Four copies of the revised plans are included with this response submittal. It is assumed that all of the comments have been addressed satisfactorily. If there are any questions, please feel free to contact our office. I would appreciate it if you would contact me when you know the schedule for the staff report and Planning Commission hearing.

Respectfully,

ntan

Brian C. Hart Project Engineer

Enclosures

cc: Gregg Cranston Trent Prall, City Utility Engineer Gary Mancuso, Walker Field Airport File 200057.40 PP-2001-057

NORTH CREST

March 15, 2001

Rick Dorris

ROUND ONE

MISCELLANEOUS

14 H

- According to the ZDC, it is the applicant's responsibility to improve the road to current standards along the property frontage. H Road is in very bad shape, with many vertical undulations, as we discussed in the general meeting. This development is requiring street improvements on both sides of the existing pavement. Any expansion matched to this existing road would produce a bad product. Therefore H Road along the property frontage must be brought up to standards. This could be either removal and reconstruction or overlaying to provide a smooth profile. If the overlay option is chosen, one overlay lift should be placed to smooth out the profile.
- Then the last lift of the new area should also be an overlay on the existing road.
- 2. Is any right of way needed east or west of the parcel to construct the roadway tapers?
- 3. The off site improvements for sanitary sewer and road construction are unfortunate but still required with no cost to the City.
- 4. A Phase I environmental report is required at final.

PLANS

- 0^{K} 5. Provide a section of the improvements to H Road.
- 016. Provide horizontal ties to aliquot corners.
- 7. Sanitary sewer near south end must be in the street.
 - 8. The sanitary sewer is at 0.28 percent. Is Trent okay with this? Special attention will be required so that the constructed grade is not flatter than this.

TRAFFIC STUDY

 $\mathcal{O}|$ 9. Please seal the study.

10. The site entrance operates at acceptable levels of service now and in 20 years. The

intersection at H and Horizon fails in 20 years. The solution appears to be a signal. The TEDS requires LOS C or better in 20 years. However, the City of Grand Junction does not want a signal there now. Consequently, no improvements are required at H and Horizon.

DRAINAGE REPORT

I1. Only one detention basin will be allowed for the entire development. If the southern lots can't drain into the basin, the basin will need to over-detain for the northern lots so that the total release offsite is equal to or less than historic. Detention basins will not be allowed for individual lots. As always, the estimated runoff for the subdivision should be conservative when the final report is developed.

 $\sum_{i=1}^{n} (i \in I)$

PP-2001-057 NORTH CREST APRIL 3, 2001

Rick Dorris

ROUND TWO

MISCELLANEOUS

- 1. This property does have significant offsite improvements to be constructed according to City and professional engineering standards. The City understands that this imposes additional cost to the development. However, the ZDC requires these improvements be constructed by the applicant. Please refer to the following code citations.
 - 6.2.A.1 "Public Improvements. The improvements described in this section must be built by the applicant and constructed in accordance with adopted standards." Listed below this are "a. roads, streets, and alleys" and "b. Sanitary sewer pipes and facilities."
 - 6.2.B.1.d "Streets, alleys, sidewalks, trails and bikepaths shall be constructed in accordance with applicable City standards. If needed to provide safe and adequate access and circulation for residents, visitors, users and occupants, the applicant shall provide off-site infrastructure."

Granted the section you cited refers to half-street improvements; however, this development requires improvements to both sides of H Road. Consequently, both sides, and the existing H road, must be improved to adopted standards. Another option would be to prove that the existing road meets City standards.

- 2. 3D systems was developed in the county. Evidently, they didn't required extension of the sewer line. The code sections cited above apply here as well. The sewer must be extended for this development to have the necessary sanitary sewer service.
- 3. The sanitary sewer manhole near the south end must still be in the street. This avoids having sanitary sewer at acute angles under concrete which could unnecessarily increase replacement costs.



Page 1 of 4

FILE # PP-2001-057

TITLE HEADING: North Crest Industrial Park

LOCATION: H Rd, West of 3D Systems

PETITIONER: North Crest LLC – Gregg Cranston

PETITIONER'S ADDRESS/TELEPHONE:

Route 2 Box 81 Merino, CO 80741 241-4000

PETITIONER'S REPRESENTATIVE:

LANDesign – Brian Hart 245-4099

STAFF REPRESENTATIVE:

Bill Nebeker

NOTE: THE PETITIONER IS REQUIRED TO SUBMIT AND LABEL A RESPONSE TO COMMENT FOR EACH AGENCY OR INDIVIDUAL WHO HAS REQUESTED ADDITIONAL INFORMATION OR REVISED PLANS, AND A COPY FOR THE CITY, ON OR BEFORE 5:00 P.M., MARCH 30, 2001.

CITY	COMMUNITY	DEVEL	OPMENT
Bill No	ebeker		

3/19/01 244-1447

- 1. A temporary turnaround easement is required at the end of North Crest Drive for phase 1 development.
- 2. The detention pond must be in a tract with common ownership, rather than on a single lot.
- 3. With the uses that are allowed in the I-O zone the commercial street section that includes sidewalks on both sides of the street is the more appropriate street section for North Crest Drive and Court.
- 4. Sanitary sewer must be extended to the west property line.
- 5. A complete geotechnical study for review by the CGS will be required at final plat review.
- 6. The uses proposed in this subdivision after final plat approval may require conditional use permits as well as site plan reviews per Table 7.3 Airport Land Use Compatibility Standards Matrix.
- NOTE: In addition to the full size drawings, please submit one 11" X 17" copy of sheets 1 9 with your response to comments.

CITY DEVELOPMENT ENGINEER	3/19/01
Rick Dorris	256-4034
NUCLER AND	

- MISCELLANEOUS
- 1. According to the ZDC, it is the applicant's responsibility to improve the road to current standards along the property frontage. H Road is in very bad shape, with many vertical undulations, as we discussed in the general meeting. This development is requiring street improvements on both sides of the existing pavement. Any expansion matched to this existing road would produce a bad product. Therefore H Road along the property frontage must be brought up to standards. This could be either removal and reconstruction or overlaying to provide a smooth profile. If the overlay option is chosen, one overlay lift should be placed to smooth out the profile. Then the last lift of the new area should also be an overlay on the existing road.
- 2. Is any right of way needed east or west of the parcel to construct the roadway tapers?
- 3. The off site improvements for sanitary sewer and road construction are unfortunate but still required with no cost to the City.

4. A Phase I environmental report is required at final.

PLANS

- 5. Provide a section of the improvements to H Road.
- 6. Provide horizontal ties to aliquot corners.
- 7. Sanitary sewer near south end must be in the street.
- 8. The sanitary sewer is at 0.28 percent. Is Trent okay with this? Special attention will be required so that the constructed grade is not flatter than this.

TRAFFIC STUDY

- 9. Please seal the study.
- 10. The site entrance operates at acceptable levels of service now and in 20 years. The intersection at H and Horizon fails in 20 years. The solution appears to be a signal. The TEDS requires LOS C or better in 20 years. However, the City of Grand Junction does not want a signal there now. Consequently, no improvements are required at H and Horizon.

DRAINAGE REPORT

11. Only one detention basin will be allowed for the entire development. If the southern lots can't drain into the basin, the basin will need to over-detain for the northern lots so that the total release offsite is equal to or less than historic. Detention basins will not be allowed for individual lots. As always, the estimated runoff for the subdivision should be conservative when the final report is developed.

CITY UTILITY ENGINEER3/14/01Trent Prall244-1590

In regards to City participation and variance of City standards on the off-site improvements to this site, this office has the following comments/concerns: 3D Systems Inc installed almost 1,200 feet of off-site sewer improvements at depths up to 21 feet in order to get it to the sewer to their one lot. As half-street improvements were not required, and substantial design work was required in order to design the sewer to serve the property to the west side of this development, the sewer was not required to be extended to the west property line. Given that history, I am disappointed that LanDesign would even suggest public participation in a 360-foot offsite sewer extension that will ultimately serve 11 lots. At \$18 per foot, which is the amount usually used in the development improvements agreement submitted from this consultant, the total offsite improvements would total \$6,480 or approximately \$600 per lot. Keep in mind that without 3D Systems substantial investment in bringing sewer the 1,160 feet this site would be looking at a 1,500-foot sewer extension at depths up to 21 feet. The previous submittal on this property, prepared by LanDesign, included a stub to the west north of H Road some distance. Please review that submittal and incorporate it into this plan.

CITY FIRE DEPARTMENT	3/15/01
Hank Masterson	244-1414

Fire Flow Requirements:

- 1. Add a fire hydrant at the intersection of H Road and North Crest Drive. Additional fire hydrants may be required at time of development of individual lots.
- 2. The proposed water line exceeds 1000' in length and is required to be looped. Stub out your 8" line east and west along Al Drive. This will accomplish the needed looping at a future date-provided minimum fire flows can be provided with the proposed dead-end line.
- 3. Minimum fire flow for all buildings in this subdivision is 1500 gallons per minute. Submit documentation showing the available fire flow at the point of connection in H Road to your line extension. Also, show the available flow at the most demanding fire hydrant in your project. Information on available fire flows in H Road may be obtained from Ute Water.

CITY ADDRESSING	3/08/01
Ronnie Edwards	245-4008
Street names are also and multiplications address.	1 1 1 1 1

Street names are okay and preliminary addresses have been proposed on the plat.

REVIEW COMMENTS / #P J01-057 / PAGE 3 OF 4

CITY ATTORNEY Stephanie Rubinstein	3/16/01 244-1501
No comments.	244-1301
UTE WATER	3/14/01
Jim Daugherty	242-7491
1. Fire Hydrants should be spaced at 300' in	tervals in commercial areas

- 2. Al Dr. must have 8" water line run in ROW.
- 3. In North Crest Dr. deflect pipe to maintain constant distance from curb and gutter.
- 4. Does developer want to set water meter pits and yokes or stub out larger lines that could support fire protection if needed?
- 5. Water mains shall be C900, Class 150 PVC. Installation of pipe, fittings, valves, and services, including testing and disinfection shall be in accordance with Ute Water standard specifications and drawings
- 6. Developer is responsible for installing meter pits and yokes (pits and yokes supplied by Ute Water).
- 7. Construction plans required 48 hours before construction begins. If plans are changed the developer must submit a new set of plans.
- 8. Electronic drawings of the utility composite for the subdivision, in Autocad.dwg format, must be provided prior to final acceptance of water infrastructure.
- 9. Water meters will not be sold until final acceptance of the water infrastructure.
- 10. ALL FEES AND POLICIES IN EFFECT AT TIME OF APPLICATION WILL APPLY If you have any questions concerning any of this, please feel free to contact Ute Water.

PUBLIC SERVICE	3/15/01
John Salazar	244-2781
Electric: Grand Valley Power service area.	

Gas: No objections

GRAND VALLEY RURAL POWER	3/12/01
Perry Rupp	224-0040

May need easement along East side of project to access existing underground power line. (30)

WALKER FIELD AIRPORT	3/15/01
Gary Mancuso	244-9100

- 1. Walker Field Airport Authority has reviewed the proposed North Crest development. This development lies within the Airport Influence Area and between the 65 and 75 DNL noise contours but is outside the critical zones as identified in the Airport Master Plan. Since the location of the development appears to be within the 65 and 75 DNL noise contours, the Airport Authority requests a layout plan of the development showing the location of the long range noise exposure contours as identified in the Airport Master Plan before the Airport Authority makes its final determination of comments to the City. Any noise intrusion might be mitigated with appropriate design and construction methods if required. Additionally, if this development is approved and due to the close proximity to the Airport, we suggest that each individual lot applicant submit a Federal Aviation Administration form 7460-1 to the Denver Airports District Office for their review. Their office can be contacted at (303) 342-1251.
- 2. The Walker Field Airport Authority requests that an Avigation Easement specific to this property be filed with the City of Grand Junction with a copy provided to the Airport Authority.
- 3. All exterior lighting must be downward directional and lighting elements must be chosen to reduce or eliminate any possible glare that might affect aircraft operations.

REVIEW COMMENTS / #P. .001-057 / PAGE 4 OF 4

CITY TRANSPORTATION ENGINEER George Miller

3/20/01 256-4110

Striping (sheet 4 of plan set) Revise EB L. Turn pockets to directional, rather than shared, pockets for both North Crest and 3D Systems driveways. WB edge line (in front of 3D) should direct traffic to the WB Through lane, not the WB Right Turn Lane. Lane Use arrows should be at the entrances to the pockets, to assist in driver decision. Plan set does not show enough area existing striping details to thoroughly comment on submitted design.

(Original submittals)

3-5-01

Dev Rev notes on North Crest Indus. Park Sub. (H Rd. West of Sundstrand, N. side) Miller Overview: Single access from H Rd (Urban collector) 10 lots, 2 phases

General Report summary (Traffic concerns):

Development will provide L. turn lane (EB) and R. turn In. (WB).

Developer asks City assistance to revise existing striping as 3D Systems striping (to east of project) not to City standards.

Plan Set Comments:

Overall, set not detailed enough to make judgements on how parcel will flow internally, or with adjacent parcels and H road frontage (No structure/parking/driveway site plans, details on adjacent geometry of Al Dr. or H Rd., no road elevations).

Striping (page 4) Eastbound - recommend redirect taper approaching North Crest,

relocate Turn Symbols to lane entrances, revise median lane between North Crest and 3D entrance to discrete EB L. Turn lane rather than shared turn lane, revise median (east of 3D) to ½ tear drop (easier to restripe), revise WB edge line (east of 3D) to direct traffic to through lane, not rt. turn lane. Also, plan set not detailed enough to allow evaluation of existing striping to address applicant's request for City to assist with striping revisions. (See markups on plan set, page 4). (Note: these recommendations are reflected in the TIA by

Developer's consultant, LSC).

Signing - no signs shown. Recommend SB stop at H Rd, show Street Name placement.

TIS comments:

3D Sytems shown to have only 2 entering AM peak vehicles – (OK, as facility has another entrance). Trip gen numbers appear valid, impact to H Rd is minimal now and at 2020. Consultant had conducted and analysis of H Rd and Horizon, copies saved for file (Signalized and unsignalized projections provided).

Comments not received as of 3/20/01: U.S. West, Grand Valley Water Users, Colorado Geologic Survey, City Property Agent, City Police Dept., AT&T Cable Services

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City of Grand Junction	n
Department of Community Dev	velopment (Europhia)
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Project Address/File/Name	PP-2001-057 North Cres
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DEVELOPMENT PROJECTS	PERMITS
100-321-43195-13-109465	100-321-43195-13-124415
Rezone	Temporary Use Permit
Conditional Use	- Teoplain Permit
Special Use	Sign Permit (#)
Major Sub-ODP, Prelim, Final	Special Events Permit (#)
Minor Subdivision	Fence Permit (#)
PDR - ODP, Prelim, Final 50	1.04 Home Occupation Permit
ROW / Easement Vacation	
Replat / Property Line Adj	OTHER
Variance	School Impact 701-905-43994
Site Plan Review	Designed and child appart of
	Drainage 202-51314-43995-30
Minor Change	TCP 2071-61314-43993-30
Minor Change Change of Use	Drainage 202-61314-43995-30 TCP 2071-61314-43993-30 Sign Deposit 100-21090-131840
Minor Change Change of Use Planning Clearance (#)	Drainage 202-51314-43995-30 TCP 2071-61314-43993-30 Sign Deposit 100-21090-131840 Manuals, Copies, etc. 100-21090-131840

(White: Customer) (Canary: Finance) (Pink: Planning) (Goldenrod: File)



TRAFFIC IMPACT ANALYSIS

NORTH CREST INDUSTRIAL PARK

GRAND JUNCTION, COLORADO



LSC TRANSPORTATION CONSULTANTS, INC.



1889 York Street Denver, CO 80206 (303) 333-1105 FAX (303) 333-1107 E-mail: lsc@lscden.com Web Site: http://www.lscden.com

February 27, 2001

Mr. Kay Scott North Crest Development, LLC Route 2, Box 81 Merino, CA 80791

> Re: North Crest Industrial Park Grand Junction, CO (LSC #010010)

Dear Mr. Scott:

We are pleased to submit our Traffic Impact Analysis (TIA) of the proposed North Crest Industrial Park in Grand Junction, Colorado. North Crest will be a 20-acre office and light industrial development on H Road just west of Walker Field Airport.

This TIA first provides a summary of the existing roadway and traffic conditions in the vicinity of the proposed development and a summary of planned improvements to the roadway system. Next, estimates are made of the amount and directional distribution of vehicular traffic likely to be generated. This information is then combined with projected future traffic volumes in the vicinity to evaluate the impact of the new development on the existing and future roadway system, and where appropriate, to make recommendations for the required roadway and access improvements. The study has been prepared in accordance with the guidelines set forth in the City of Grand Junction's Transportation Engineering Design Standards (TEDS) manual, dated January 1995. We have also discussed specific requirements with Mr. Rick Dorris, the City's Development Engineer, and Ms. Jody Kliska, Grand Junction Traffic Engineer.

We trust that our findings and recommendations will assist in the planning of the proposed industrial park. Please call if we can be of further assistance.

Respectfully submitted,

LSC Transportation Consultants, Inc.

By: for Robert E. Leigh, P.E.

REL/wc

F:\PROJECTS\2001\010010\F-NCIP.

Traffic Impact Analysis

North Crest Industrial Park

Grand Junction, Colorado

Prepared for

North Crest Development, LLC Route 2, Box 81 Merino, CA 80791

Prepared by

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SECTION A Introduction

North Crest Development, LLC plans to develop a new office and light industrial park on 20 acres located just west of the Walker Field Airport terminal in north-central Grand Junction, Colorado. The development would consist of ten to fifteen land parcels containing a mix of office, light industrial and warehouse uses. At an average floor area ratio (FAR) of 0.50, the built out development could contain as much as 400,000 square feet of floor area.

LSC Transportation Consultants, Inc. has been retained by North Crest Development, LLC to determine the traffic impacts of the proposed development on the surrounding roadway system in accordance with the requirements of the City of Grand Junction. This report summarizes the following analysis procedures which were utilized in the evaluation.

- A review and analysis of present roadway and traffic conditions in the vicinity of the site and a review of planned and proposed roadway improvements in the general vicinity.
- A determination of the average weekday and peak-hour vehicle-trip generation for the proposed development.
- An analysis of the estimated directional distribution of site-generated traffic and an assignment of that traffic to the adjacent street network.
- A determination of future traffic volumes in the vicinity of the site.
- An evaluation of the impacts of site-generated traffic expressed in terms of the development's traffic as an increment of total projected traffic on the surrounding roadway system and the resulting Levels of Service (LOS) on nearby intersections.
- A determination of appropriate roadway standards and improvements which will ensure optimum traffic operation for traffic entering and exiting the site.



SECTION B Roadway and Traffic Conditions

The location of the proposed North Crest Industrial Park is shown in Figure 1. It is situated on the north side of H Road and southwest of Walker Field, Grand Junction's municipal airport. The 20-acre rectangular site is bordered by the airport on the north, 3D Systems (an office/light industrial use) on the east, partially developed industrial land to the south, and undeveloped agricultural land to the west. It has about 465 feet of frontage on H Road and is nearly 2,050 feet deep on its longest, north-south dimension. The site is generally flat, rising slightly to the north.

Primary access to the development will be provided by a full movement access driveway (internal roadway) on H Road about 280 feet west of the east property line. This internal cul-de-sac roadway will provide direct access frontage to the ten or so individual lots within the park. Regional access to the site will be provided by Horizon Drive east of the site, the Horizon Drive/I-70 interchange located about one-half mile south of the site, and H Road extending west of the site.

Area Roadways

The area roadway system serving the site is also shown in Figure 1 and is described below:

- <u>H Road</u> is a rural, two-lane collector street that extends from Horizon Drive on the east westerly to 26 Road, a distance of about two miles. The asphalticconcrete surfaced roadway has a right-of-way of about 60 feet, a surface width of about 24 feet, and no other improvements. H Road is designated a future "urban collector" street on the City's functional classification map and is planned to be extended westward beyond 26 Road to 25 Road where it presently exists as an unpaved rural road that extends further west for four miles to 21 Road. H Road west of the site will become an even more important access road in the future because it intersects several north-south arterial and collector roadways that serve the growing city to the south.
- <u>Horizon Road</u> is an important diagonal arterial roadway that connects Walker Field to the balance of Grand Junction. Horizon Drive is a four-lane minor arterial roadway that extends southwesterly from Walker Field to North 7th Street, a distance of nearly two and one-half miles. Its interchange with I-70,
one-half mile southwest of Walker Field, is the principal I-70 interchange serving Grand Junction to and from points east. Horizon Drive terminates as an arterial street at the Stop sign controlled H Road intersection and it continues northeasterly as one-way Walker Field Drive, a loop road serving the terminal building, parking lots, and other airport-related facilities.

Existing Traffic Conditions

Morning and evening peak-hour traffic counts were conducted by Counter Measures, Inc. (a subsidiary company of LSC Transportation Consultants, Inc.) on Tuesday, January 23, 2001, at the nearby intersections of Horizon Drive/H Road, H Road/Walker Field Drive (exiting southbound) and H Road/Falcon Way. Counts were also tabulated at the rear access driveway for the 3D Systems building where it intersects H Road immediately east of the North Crest site. Figure 2 summarizes the results of these counts. The volumes shown in Figure 2 are the actual counts for the highest 60-minute period within a two-hour time frame in the morning and evening peak traffic times. The results of these counts indicate that H Road adjacent to the site now carries approximately 1,300 vehicles per day. (Counts by the City of Grand Junction showed 1,286 vehicles per day on H Road west of 27 ¼ Road in December 1996.)

Existing Traffic Controls and Lane Geometry

Existing traffic controls and lane geometry in the vicinity of North Crest are shown in Figure 3. As shown, H Road is 24 feet in width adjacent to the site, but is widened to 35 feet between the eastern North Crest fence line and Falcon Way in order to provide a westbound right-turn lane adjacent to the 3D Systems property.

The intersection of H Road and Horizon Drive is controlled by Stop signs for eastbound and westbound traffic on H Road. Northbound through and left-turning traffic on Horizon Drive proceeds through the intersection without stopping while eastbound rightturning traffic on H Road must yield.







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SECTION C Traffic Generation

The North Crest Industrial Park is planned to consist of at least ten individual lots, as illustrated in Figure 4. Uses could be four office sites (nearest the entrances on H Road), four light industrial sites, and possibly two larger warehouse sites. Based upon the assumed land use of Figure 4, the umber of vehicle-trips that could be generated by the proposed development has been estimated utilizing trips generation rates documented in *Trip Generation*, published by the Institute of Transportation Engineers (ITE), 6th Edition, 1997. Table 1 presents the estimated daily and peak-hour vehicle-trips generated by each land use in the site plan. The trip generation rates of Table 1 apply to the building floor area of the several land uses, expressed in thousands of square feet. The floor area estimates of Table 1 assume a "floor area ratio" (FAR) of 0.50 (one-half square foot of floor area for each square foot of land area).

As indicated, North Crest Industrial Park could generate as many as 3,236 vehicle-trips per day (1,618 entering trips and 1,618 exiting trips over a 24-hour period), based upon a total buildout floor area of 407,330 square feet. Office uses, constituting only 27 percent of the total floor area, could generate nearly 45 percent of the trips. Table 1 also shows that there could be 455 vehicle-trips in the morning peak-hour (393 entering and 62 exiting) and 455 vehicle-trips in the evening peak-hour (75 entering and 380 exiting).

Table 1
ESTIMATED TRAFFIC GENERATION
North Crest Industrial Park

1

			Floor											
		Area	Area	Floor Area	Average	Trip G	eneration l	Rates/1,0	00 sq.ft.	Average	\	/ehicle-Trips	s Generate	d
Parcel	Land Use	(acres)	Ratio	(1.000 sq.ft.)	Weekday	AM In	AM Out	PM In	PM Out	Weekday	AM In	AM Out	PM In	PM Out
						<u> </u>		· . .					· · · · · ·	
1	General Offices	1.00	0.5	21.86	12,94 (1)	1.61	0.22	0.3	1.52	282	35	5	7	33
2	General Offices	1.51	0.5	32.78	12.94	1.61	0.22	0.3	1.52	424	53	7	10	50
3	General Offices	1.53	0.5	33.35	12.94	1.61	0.22	0.3	1.52	432	54	7	10	51
4	General Offices	1.08	0.5	23.51	12.94	1.61	0.22	0.3	1.52	304	38	5	7	36
	Subtotal			111.50						1,442	180	24	34	170
E	Light Industrial	2 22	0.5	60.60	6.07 (2)	0.91	0.11	0.12	0.96	353	41	6	e	44
5	Light Industrial	2,33	0.5	30.09 46.51	6 07	0.01	0.11	0.12	0.00	203	20	5	0	44
0	Light industrial	2.14	0.5	40.01	0.97	0.01	0.11	0.12	0.00	324	30	5	0	40
7	Light Industrial	1.50	0.5	32.67	6.97	0.81	0.11	0.12	0,86	228	26	4	4	28
8	Light Industrial	1.50	05	32.67	6.97	0.81	0.11	0.12	0.86	228	26	4	4	28
	Subtotal			162,54						1,133	131	19	20	140
9	Warehouse	3.50	0.5	76.23	4.96 (3)	0.62	0 14	0.16	0.52	378	49	11	12	40
10	Warehouse	2 62	0.5	57.06	4 96	0.62	0.14	0.16	0.52	283	35	8	9	30
10	Subtotal	6.06	0.0	133 29	- 50	0.02	0.14	0.10	0.02	661	84	19	21	70
	00010101										÷.			
	Total			407.33						3,236	395	62	75	380
Course	for the population rat	an Trip Cr	nomion	Sth adition In	atitute of Trance	odation	Enginoora	1009						
SUUICe	tor trip generation rate	es. mp Ge		, our collion, in vildings (litted :	surve or fransp	onation	Engineers,	1330						
(1)	Lanu Use Code #/ It	, General	Unice BI	unaniga (inteo c	uive equations)									

(2) Land Use Code #110; General Light Industrial (average rates).(3) Land Use Code #150; Warehousing (fitted curve equation).

The geographical distribution of project-generated vehicular traffic on the roadways providing access to and from the proposed industrial park is a key element in the planning for the project's specific access requirements and in determining its traffic impacts on surrounding roadways and intersections. Major factors which influence the distribution include:

- <u>The project's location relative to the population and activity centers</u> <u>in Grand Junction.</u> (The site's proximity to an I-70 interchange, Walker Field Airport, and all areas of Grand Junction is significant. Virtually all traffic will originate to the south, with near equal amounts arriving from the east and west.
- <u>The local and regional roadway network serving the site</u>. (All traffic to and from the site will utilize H Road. The site's proximity to Horizon Drive and the I-70 interchange, plus the existing and proposed future connections between H Road and east/west arterial roads south of I-70, means that the site will have good access to all parts of Grand Junction.)
- <u>The specific access and circulation characteristics of the development</u> <u>plan</u>. (The site will have a simple, full movement access (FMA) on H Road, allowing equal access from both the east and west.)

Considering the combined effects of these factors, specific traffic distribution estimates have been made. Figure 5 illustrates the directional distribution percentages that were determined to be appropriate. The bold arrows and adjacent numbers illustrate the percent of project-generated traffic on each leg of H Road. As shown, when the project is first completed (assumed to be the Year 2002 or soon after), 55 percent of all traffic will be oriented toward the eat and Horizon Drive. After H Road is extended westerly and improved to 24 Road, the majority of traffic (55 percent) will be oriented to and from the west.

Assignment of Generated Traffic

The assignment of project-generated morning and evening peak-hour traffic is also shown in Figure 5. Estimates of peak-hour traffic for both Years 2002 and 2020 at the H Road

site access are shown as well as 2002 estimates of traffic at the Horizon Drive/H Road intersection. (Small amounts of project-generated traffic will be traveling to and from the Walker Field terminal area via Walker Field Drive.) These assignments are made by applying the peak-hour generation amounts of Table 1 to the distribution percentages assumed in Figure 5. The peak-hour traffic volumes of Figure 5 have been used in the impact analyses that follow.



CONTACTION

Figure 4

Land Use Plan February, 2001 Northcrest Industrial Park (LSC #010010)





In order to have a basis for determining future traffic impacts and required improvements, projections of future traffic volumes were made at the primary access intersection on H Road and at the nearby H Road/Horizon Drive intersection. Projections were made for the near future (completion of the project) and for future Year 2020.

Traffic Volumes at Project Completion

Figure 6 illustrates the combined sum of existing traffic plus project-generated traffic. Morning and evening peak-hour volumes are illustrated at the H Road access and at H Road/Horizon Drive intersection.

Year 2020 Background Traffic

Future traffic volumes in the vicinity of North Crest Industrial Park will be the sum of project-generated traffic and the future "background" traffic. Background traffic is defined as all traffic other than that generated by the proposed project. Year 2020 morning and evening peak-hour "background" traffic volumes in the vicinity of the site are illustrated in Figure 7. These volumes have been estimated by LSC, Inc. based upon the assumption that H Road will experience a very significant increase in traffic as urbanization continues north of I-70 and the road is reconstructed as a continuous urban collector street from 24 Road to Horizon Drive. Volumes of at least 5,000 vehicles per day are forecast for H Road between 27 ¼ Road and the Walker Field Drive exiting roadway. This represents a sizable, nearly 400 percent, increase over present traffic, or a growth rate of about eight percent per year for 20 years.

Year 2020 turning volumes at the Horizon/H Road intersection have also been estimated in Figure 7. As with H Road farther west, these represent significant increases over the volumes counted in January 2001.

Year 2020 Total Traffic

The combined sum of project-generated traffic (Figure 5) and 2020 background traffic (Figure 7) is shown in Figure 8. These volumes become input into the capacity and impact analyses of the next section.









SECTION F Traffic Impacts

The traffic impacts of the North Crest Industrial Park development can be described in technical terms by evaluating the resulting "Levels of Service" (LOS) at the site access intersection and the nearby H Road/Horizon Drive intersection which will be affected by the development. Level of Service illustrates the inter-relationship among the intersection's physical characteristics (lane geometry), its usage (traffic volumes), and its traffic-carrying capacity (vehicles per hour).

Intersection Capacity Analyses

Intersection capacities have been analyzed in accordance with the requirements of the 1995 Highway Capacity Manual (HCM), published by the Transportation Research Board of the National Academy of Sciences, a federal organization. The HCM methodology is based upon the maximum number of vehicles that can pass through an intersection, in each of the intersection's several turn movements and through movements, in a given period of time. The concept of Level of Service is used as a basis for computing combinations of roadway operating conditions. By definition, six different Levels of Service are used (A, B, C, D, E, and F) with "A" being a free-flow condition and "E" representing the capacity of a given intersection or traffic movement, while LOS "F" represents the intersection's traffic volumes exceeding its capacity with frequent delays. The generally accepted standards for intersection operations under "urban" conditions are Levels of Service "C" and "D". LOS "C" represents an intersection operating with some minor delay while LOS "D" indicates more, but still acceptable amounts of delay. For the North Crest development, the main access intersection was analyzed for the near term condition of buildout of the development, Year 2002, and the future operations in the Year 2020. A capacity analysis of the nearby H Road/Horizon Drive intersection was also completed for Year 2002 conditions, Year 2020 background traffic, and Year 2020 total traffic. Traffic volumes for existing traffic plus project-generated traffic (shown in Figure 6); future 2020 background traffic (shown in Figure 7); and future 2020 total traffic (shown in Figure 8), were used in the analyses.

The results of the capacity analyses are given in the worksheets located in Appendix B of this report while the summary results of the capacity analyses are shown in Table 2.

This table shows Level of Service results for existing plus project-generated traffic, Year 2020 background traffic, and Year 2020 background plus project-generated traffic at the site's H Road intersection and at the nearby H Road/Horizon Drive intersection.

As indicated in Table 2, all movements of the H Road/site access intersection are expected to operate at an acceptable Level of Service (LOS "D" or better) with background plus site-generated traffic through Year 2020 with the proposed traffic control and lane geometry.

All movements of the H Road/Horizon Drive intersection are expected to operate at an acceptable Level of Service (LOS "D" or better) in the short term with the existing traffic control and lane geometry. However, with the present Stop sign control, the westbound left-turn movement of this intersection is expected to operate at LOS "F" with background traffic. In the future, however, projected traffic volumes will necessitate signalization of the intersection. With signalization, all movements of the intersection are expected to operate at a good Level of Service (LOS "C" or better) during the peak-hours through Year 2020 with both background traffic and background plus site-generated traffic.

	Table 2 Level of Service Capacity Analysis North Crest Industrial Park Grand Junction, CO LSC # 010010													
	Year 2002 Year 2020 Year 2020 Total Background Total													
	AM PM AM PM											PM		
	Approach LOS Delay LOS Delay LOS Delay LOS Delay LOS Delay											LOS	Delay	
H Road/Site Access	Unsignalized SB LT EB LT	B A	13.9 8.2	B A	11.8 7.5		-		-	D A	25.1 8.5	C A	19.3 8.1	
H Road/Horizon Drive	Unsignalized EB LT EB TH WB LT	C C C	17.1 20.1 23.8	B B D	10.1 10.5 29.8	C C F	21.1 22.8 53.9	C C F	16.7 15.7	Ε Ε Ε	44.7 41.1 **	C C F	19.8 17.5	
H Road/Horizon Drive	Signalized EB LT EB TH WB TH WB LT NB TH NB LT Intersection					C C C C A A A	25.6 24.3 26.3 24.0 2.1 2.0 4.6	B B B A A A	12.8 12.2 14.5 12.3 5.1 5.1 5.3	C C C C A A A	25.9 24.3 26.4 24.0 2.3 2.0 4.6	B B B A A A	11.4 10.8 13.0 10.8 4.9 4.7 4.5	
** Delay over 100 secon Source: Capacity Work	ids sheets, Appendix B					••								

SECTION G Recommended Improvements

With H Road in its present condition as a rural two-lane collector road, the primary need for accommodating the North Crest development will be to widen the roadway sufficiently to provide an eastbound left-turn lane for the significant volume of eastbound entering traffic. The recommended configuration of the access is illustrated in Figure 9. Based upon guidelines contained in the <u>Colorado State Highway Access Code</u> of August 31, 1998 (the basis for the Grand Junction TEDS requirements), a left-turn lane about 660 feet long will be required, providing left-turn stacking for approximately nine vehicles. In addition, that portion of H Road east of the North Crest access should be widened to conform and align with the existing right-turn lane serving the rear access to the 3D Systems building.

It is also assumed that, in accordance with the long range transportation improvement plan for Grand Junction, H Road will be improved to standard three-lane urban collector street standards (44 to 52 feet in width), which will provide adequate width for left-turn movements.

In addition, we recommend that the H Road/Horizon Drive intersection be monitored and signals installed when satisfactory Signal Warrants are met. At that time, H Road should be widened to four through lanes between the two Walker Field Drive one-way roadways.



Based on the foregoing analyses, the following conclusions may be made concerning the North Crest Industrial Park development:

- 1. The proposed North Crest Industrial Park, consisting of 20 acres of land and possibly more than 400,000 square feet of building floor area, could generate as much as 3,236 daily vehicle-trips, with 455 trips in the morning peak-hour (393 entering and 62 exiting) and 455 trips in the evening peak-hour (75 entering and 380 exiting).
- 2. All of the generated traffic will enter and exit the site at the planned main access point on H Road. Traffic to and from the site will be nearly split evenly between the east and west directions. (An emergency only access to the site could be provided by way of Landing View Lane, a minor street, on the north border of the site.)
- 3. The traffic impacts of North Crest on H Road will be significant because of the road's present partially improved condition as a rural collector street. The development's impact on the nearby H Road/Horizon Drive intersection will be much less.
- 4. An important finding of this impact analysis is that future urban development of the H Road corridor and growth of the Walker Field Airport will result in greatly increased traffic on H Road. When this growth occurs, it will be necessary to widen and improve H Road to a standard "urban collector" crosssection and extend it westerly to provide a continuous route from 24 Road on the west to Horizon Drive on the east.
- 5. In the meantime, in response to the North Crest development, partial widening of H Road should occur in the vicinity of North Crest in order to provide an eastbound left-turn lane and a westbound right-turn lane.



APPENDIX A Traffic Counts

Site Code : 10 N-S Street: 3-	D SYSTEMS	REAR A	CCESS			Counter He	easures						PAGE: 1 FILE: 3DSYNROA
I-W Street: H-ROAD : Novements by: Vehicles													
Time	Fr	From North			From East			on Sout	 th	Fi	on Wes	Vehicle	
Begin	RT	THRU	LT	RT	THRU	LT	RT	THRU	LT	ŔŤ	THRU	LŤ	Total
6:30	0	0	0	0	3	0	0	0	0	0	13	0	16
6:45	0	0	0	0	7	0	0	0	0	0	29	0	36
HR TOTAL	0	D	0	0	10	0	0	0	0	0	42	0	52
7:00 AH	0	0	0	0	0	0	0	0	0	0	21	0	21
7:15	0	0	0	0	6	0	0	0	0	0	13	0	19
7:30	0	0	0	0	7	0	0	0	0	0	28	0	35
7:45	0	0	0	0	5	0	0	0	0	0	31	1	37
HR TOTAL	0	0	0	0	18	0	0	0	0	0	93	1	112
8:00 AH	0	0	1	0	4	0	0	0	0	0	18	0	23
8:15	0	0	0	1	4	0	0	0	0	0	10	0	15
						Втеа	k		********				
4:00 PM	0	0	1	1	21	0	0	٥	0	0	12	0	35
4:15	0	0	0	0	11	0	0	0	0	0	12	0	23
4:30	1	0	1	0	17	0	0	0	0	0	9	0	28
4145	0	0	1	0	20	0	0	0	0	0	10	1	32
HR TOTAL	1	0	3	i	69	0	0	0	0	0	43	1	118
5:00 PM	1	0	1	1	25	0	0	0	0	0	9	0	37
5:15	0	0	9	0	15	0	0	0	0	0	5	0	20
5:30	0	0	0	0	15	0	0	0	0	0	5	0	20
5:45	Q	0	0	0	15	0	0	0	0	0	16	0	31
HR TOTAL	1	0	1	1	70	0	0	0	0	0	35	0	108
	,	0	5	1	175	0	0	0	0	0	241	2	42B

Post-it Fax Note 7671	Date - 13-00 pages
TO DOD LEIGH	From
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Phone # COC	Phone #
Fax #	Fax #

211. 10.000





					(Counter He	easures						
Site Code : 13 N-S Street: FA E-W Street: H-	LCON WAY ROAD											; F	PAGE: 1 TILE: FALCHROA
				~	Hove	ements by:	Vehicles					0	DATE: 1/23/01
Time Begin	line From North Begin RT THRU LT		th LT	Ft RT	LT	Fro RT	From South RT THRU LT			on Wes Thru	t LT	Vehicle Total	
6:30	0	0	2	9	3	0	0	0	0	0	12	1	27
6:45	2	0	1	30	5	0	0	0	0	0	20	9	67
HR TOTAL	2	Ô	3	39	8	0	0	0	0	0	32	10	94
7:00 AM	0	0	2	25	0	0	0	0	0	0	13	8	48
7:15	0	0	2	9	6	0	0	0	0	0	8	5	30
7:30	2	0	1	13	5	0	0	Û	0	0	18	10	49
7:45	0	0	4	25	5	0	0	0	0	0	22	9	65
HR TOTAL	2	0	9	72	16	0	0	Ď	0	0	61	32	192
8:00 AM	1	0	9	9	3	0	0	0	0	0	15	4	41
8:15	1	0	5	6	4	D	0	0	0	0	7	3	26
						Srea	k						
4:00 PH	6	0	14	6	16	0	0	0	0	0	13	0	55
4:15	3	0	18	10	8	0	0	0	0	0	12	0	51
4::30	0	0	9	4	17	0	0	0	0	0	10	0	40
4:45	5	0	16	3	15	0	0	0	0	0	9	2	50
HR TOTAL	14	0	57	23	56	0	0	0	0	0	44	2	196
5:00 PM	6	0	20	0	20	0	0	0	0	0	10	0	56
5:15	3	0	11	0	12	0	0	0	0	0	5	0	31
5130	0	0	4	2	15	0	0	0	0	0	5	0	26
5:45	6	0	11	8	9	0	0	0	0	0	15	1	50
HR TOTAL	15	0	46	10	56	0	0	0	0	0	35	4	163
	25	ň	129	159	143	0	۵	0	0	n	19#	52	712
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P.14





P.15

Counter Measures PAGE: 1 Site Code : 13 N-5 Street: FALCON WAY FILE: FALCHROA E-W Street: H-ROAD Novements by: Vehicles DATE: 1/23/01 : _____ PEAK PERIOD ANALYSIS FOR THE PERIOD: 4:00 PM - 6:00 PM DIRECTION START PEAX HR VOLUMES PERCENTS ... FROM PEAK HOUR FACTOR Right Thru Left Total Right Thru Left 4:15 PH 0.74 14 0 63 77 18 0 82 North 23 56 0 79 0 0 0 0 0 44 2 46 29 71 0 0 0 0 0 96 4 4:00 PH 4:00 PH 0.90 East South 0.88 West 4:00 PM Entire Intersection 14 0 63 77 18 0 82 North 4015 PH 0.74 17 60 0 77 0 0 0 0 0 41 2 43 22 78 0 East 0.92 0 0 0 South 0.00 0 95 5 0.90 West FALCON WAY ain. 1 19 14 0 63 al de la companya de 77 . 17 74 H-ROAD 77 60 _____ 0 2 H-ROAD 43 41 in the second 8.8.8.2223 .104 104 0 0 0 0 0 0 EN CON FALCON WAY 0.100

PAGE: 1

FILE: WALKHROA

Counter Reasures

Site Code : 15 N-S Street: WALKER FIELD EXIT ACCESS E-W Street: H-ROAD :

					Nov	enent	s by: Vehicles					D	ATE: 1/23/01
Time Begin	Ft R1	Da Nor THRU	th LT	Fr RT	on Eas THRU	LT	Fr RT	on Sou Thru	th LT	Fr RT	om Wes TKRU	t LT	Vehicle Total
6:30	2	0	1	0	10	0	0	0	0	0	14	0	27
6:45	0	0	5	0	35	0	0	0	0	0	21	0	61
HR TOTAL	2	0	6	0	45	0	0	0	0	0	35	0	88
7:00 AN	0	0	5	0	25	0	0	0	0	Ô	15	0	45
7:15	2	0	3	0	13	Q	0	0	0	0	10	0	28
7:30	0	0	··· 3	0	18	0	0	0	0	0	19	0	40
7:45	2	0	5	0	29	0	0	0	0	0	26	0	61
HR TOTAL	4	0	16	0	84	0	0	0	0	0	70	0	174
8:00 AN	1	0	2	0	11	0	0	0	0	0	24	0	38
8:15	1	0	2	0	9	0	0	0	0	0	12	0	24
							Break						
4:00 PN	4	0	9	D	18	0	0	0	0	0	27	0	58
4:15	3	0	13	0	15	0	0	0	0	0	30	0	61
4:30	3	0	14	0	18	0	0	0	0	0	19	0	54
4:45	1	0	17	0	17	0	0	0	0	0	25	0	60
HR TOTAL	11	0	53	Ő	68	0	0	0	0	0	101	0	233
5:00 PN	Q	0	17	0	20	G	0	0	0	0	30	0	67
5:15	2	0	15	0	10	0	0	0	0	0	16	0	43
5:30 🖂	Ð	0	7	0	17	0	0	0	0	0	9	0	33
5:45	0	0	13	0	17	0	0	0	0	0	26	0	56
HR TOTAL	2	0	52	0	64	Û	0	0	0	0	81	0	199
DAY TOTAL	21	0	131	0	281	0	0	0	0	٥	323	C	756


Counter Neasures PAGE: 1 Site Code 🗄 15 N-S Street: WALKER FIELD EXIT ACCESS FILE: WALKHROA E-W Street: H-ROAD Hovements by Vehicles - 12 DATE: 1/23/01 ------PEAK PERIOD ANALYSIS FOR THE PERIOD: 4:00 PH - 6:00 PH DIRECTION START PEAX HR VOLUMES PERCENTS FROM PEAK HOUR FACTOR Right Thru Left Total Right Thru Left 4:30 PM 0.96 6 0 63 69 9 0 91 North 4:15 PN 0.88 4:15 PN 0.00 4:15 PN 0.87 0 70 0 70 0 0 0 0 0 104 0 104 0 \$100 0 0 0 0 0 \$100 0 East South 4:15 PM Nest Entire Intersection 4:15 PH 0.94 7 0 61 68 10 North 0 90 0 70 0 0 0 0 70 0 0 \$100 0 0.88 East 0 0 0 South 0.00 0 104 0 104 0 \$100 D 0.97 West WALKER FIELD EXIT ACCESS N 0005454514560 0 ····· 7 Ó 61 a. Addimenter and the 68 ----0 77 H-ROAD 70 70 _____ 0 0 H-ROAD 104 104 1.1.1 hannisten kinn bitt ter 165 it in the second second second 0 0 0 0 1 0 1 0 · · · · WALKER FIELD EXIT ACCESS in the second

Site Code = 3 N-S Street: HO	RIZON DR/W	ALKER	FIELD										PAGE: 1 FILE: HORIHROA
E-W Street: H-	KUAU	100			Nov	ements by:	Vehicles						DATE: 1/23/01
Tine	Fre	n Nori	th	Fro	a Eas	t	FT	on Sou	th	Fr	on Wes	t	Vehicle
Begin	RT	THRU	LT 	RT	THRU	LT	RT	THRU	LT	RT	THRU	LT	Total
6:30	0	0	0	0	0	0	16	12	9	10	2	1	50
6:45	0	0	0	0	1	3	27	10	28	15	8	0	92
HR TOTAL	0	0	0	0	1	3	43	22	37	25	10	1	142
7:00 AM	0	0	0	0	0	5	15	6	34	11	Э	0	74
7:15	0	0	0	0	1	2	11	7	16	11	0	1	49
7:30	0	0	0	Û	2	5	28	9	22	13	2	1	82
7:45	0	0	0	0	0	7	49	15	32	28	3	3	137
HR TOTAL	0	0	0	0	3	19	103	37	104	63	9	5	342
8:00 AH	0	0	0	0	0	6	35	16	14	21	3	0	95
8:15	0	Û	0	0	0	11	14	14	11	11	4	0	65
		20				Brea	k					****	
4:00 PM	0	0	0	0	4	17	4	15	12	35	2	1	90
4:15	0	0	0	0	2	24	6	15	12	42	1	4	106
4:30	0	0	0	0	2	19	5	7	10	38	3	1	85
4145	0	0	0	0	4	30	5	14	13	32	2	2	102
HR TOTAL	0	0	0	0	12	90	20	51	47	147	8	8	383
5:00 PK	0	0	0	0	4	35	ĩ	7	14	50	1	0	112
5:15	0	0	0	0	1	27	3	10	11	30	1	0	83
5:30	0	0	0	0	2	9	3	2	8	21	0	0	45
5:45	0	0	0	0	3	12	9	10	19	36	1	2	92
KR TOTAL	0	Û	0	0	10	83	16	29	52	137	3	2	332

DAY TOTAL 0 0 0 0 26 212 231 169 265 404 36 16 1359

303 333 1107

PAGE: 1 FILE: HORIHROA

N-S Street: HORIZON DR/WALKER FIELD

E-W Street: H-ROAD

Site Code : 3

Counter Measures





303 333 1107

PAGE: 1 FILE: HORIHROA

DATE: 1/23/01

Counter Neasures

Site Code : 3 N-S Street: HORIZON DR/WALKER FIELD

E-W Street: H-ROAD :

Hovenents by: Vehicles

AND DOUGLIPHENE AND CITY (1998).

PEAK	PERIOD	ANALYSIS	FOR	THE	PERIOD:	4:00	PH -	6:00	PH
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HCM Unsignalized Intersection Capacity Analysis 3: H Road & Site Access

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2/27/2001

Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	۳	1	1	7	٦	7	
Sign Control		Free	Free		Stop	Subsect 100	
Grade		0%	0%		0%		
Volume (veh/h)	177	100	25	216	34	28	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	
Hourly flow rate (veh/h)	192	109	27	235	37	30	
Pedestrians					Conservation of		
Lane Width (ft)				In the second			
Walking Speed (ft/s)	00201040	202010-00					
Percent Blockage	Sec.		1 m.2 (A)		12 132	a Frank	
Right turn flare (veh)	104-49-10	AT	-		11/2/11/201		
Median type			J. Markey	Server 1	None		
Median storage veh)							
vC, conflicting volume	262				521	27	
vC1, stage 1 conf vol							
VC2, stage 2 conf vol			Statistics.	Sector and	1000		
tC, single (s)	4.1				6.4	6.2	
tC, 2 stage (s)	Cristicity's				C Sold	<u> 1981</u> 1981 1981	
tF (s)	2.2				3.5	3.3	
p0 queue free %	85		AN STA	6.1.1.1.1	92	97	
cM capacity (veh/h)	1302				440	1048	
Direction, Lane #	EB 1	EB 2	WB1	WB 2	SB 1	SB 2	
Volume Total	192	109	27	235	37	30	
Volume Left	192	0	0	0	37	0	
Volume Right	0	0	0	235	0	30	
cSH	1302	1700	1700	1700	440	1048	
Volume to Capacity	0.15	0.06	0.02	0.14	0.08	0.03	
Queue Length (ft)	13	0	0	0	7	2	
Control Delay (s)	8.2	0.0	0.0	0.0	13.9	8.5	
Lane LOS	A		New York		В	Α	
Approach Delay (s)	5.3	Second Day	0.0	1	11.5	Marcal Sciences	
Approach LOS					В		
Intersection Summary			Contraction of the		1.14	107 CH	
Average Delay	10-22-23		3.7	a transfer	- Paral		
Intersection Capacity Uti	lization		31.9%	IC	CU Leve	el of Servic	e A
A REAL PROPERTY AND A REAL PROPERTY.	Line and	12 10 61 0	25.3 20.7	TUULDE93	The Barry	the second St.	

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	٦,	*	1	٦	4	7	ሻ	*	7			
Sign Control	C. State	Stop		A Save	Stop	DOGRAM	AREAS	Free	SEL MATE	ALC: NO	Free	123.54
Grade	Column Break Street	0%			0%			0%			0%	
Volume (veh/h)	10	15	105	30	5	5	280	55	130	0	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (veh/h)	11	16	114	33	5	5	304	60	141	0	0	0
Pedestrians												
Lane Width (ft)	10.201		100	3519123	17 Miles		141	a start of		Sale la		199
Walking Speed (ft/s)		1.000						interest West				
Percent Blockage	E BEREI	343 L L 3		1.2		N		2-11-22		1.00		
Right turn flare (veh)												
Median type	101250	None		25/11/2010	None	1024	The seal	19.25		15.15		1.16
Median storage veh)												
vC, conflicting volume	677	810	0	791	668	60	0		and see	201	1.1	1.2.5
vC1, stage 1 conf vol			1								A	
VC2, stage 2 conf vol	1 5 1 5		2 WALL	126.12	Contraction of the				Sec.			1000
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)		- State						115		S. Carton	1	a starter
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	96	94	89	85	98	99	81		The state	100		119-27
cM capacity (veh/h)	308	255	1085	224	308	1006	1623	CAN A TANK		1371		3-11-15-17
Direction, Lane #	EB 1	EB 2	EB 3	WB 1	WB 2	WB 3	NB1	NB 2	NB 3	19.000	1912	
Volume Total	11	16	114	33	5	5	304	60	141		6.660	(2172)
Volume Left	11	0	0	33	0	0	304	0	0			
Volume Right	0	0	114	0	0	5	0	0	141		1. 246 1	C Sec.
cSH	308	255	1085	224	308	1006	1623	1700	1700			
Volume to Capacity	0.04	0.06	0.11	0.15	0.02	0.01	0.19	0.04	0.08	40.0	all a state	1
Queue Length (ft)	3	5	9	12	1	0	17	0	0			
Control Delay (s)	17.1	20.1	8.7	23.8	16.9	8.6	7.7	0.0	0.0	59124	12200	1000
Lane LOS	С	С	Α	С	С	Α	А					
Approach Delay (s)	10.7		Vieles V	21.0	Sec. 1	1.010	4.7	Sec. 1		4573		
Approach LOS	В			С								
Intersection Summary				62.25				States -				
Average Delay			6.9			4	Concernant and the	of the second				
Intersection Capacity Uti	lization		26.9%	116.2573	CU Lev	el of Sei	vice		A		3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	1.4

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Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	۲í	1	†	1	۲j	7	
Sign Control	350000	Free	Free	10- 8 M	Stop		
Grade		0%	0%		0%		
Volume (veh/h)	34	50	75	41	209	171	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	
Hourly flow rate (veh/h)	37	54	82	45	227	186	
Pedestrians							
Lane Width (ft)			1.1.1.1.1	e too			
Walking Speed (ft/s)	- M						
Percent Blockage			1.82		State of	8 8 9 Q.	
Right turn flare (veh)							
Median type			1.30. 8	Ber Hay	None		
Median storage veh)							
vC, conflicting volume	126	1	15. Sec.	200 P. A.K.	210	82	
vC1, stage 1 conf vol							
vC2, stage 2 conf vol	Service.						
tC, single (s)	4.1				6.4	6.2	
tC, 2 stage (s)							
tF (s)	2.2				3.5	3.3	
p0 queue free %	97		Second 1	in the	70	81	
cM capacity (veh/h)	1460				759	978	
Direction, Lane#	EB 1	EB 2	WB1	WB 2	SB 1	SB 2	
Volume Total	37	54	82	45	227	186	
Volume Left	37	0	0	0	227	0	
Volume Right	0	0	0	45	0	186	
cSH	1460	1700	1700	1700	759	978	
Volume to Capacity	0.03	0.03	0.05	0.03	0.30	0.19	
Queue Length (ft)	2	0	0	0	31	17	
Control Delay (s)	7.5	0.0	0.0	0.0	11.8	9.5	
Lane LOS	A	- Andrew	A ALLIN	5775	В	A	

10.8

B

ICU Level of Service

3.0

0.0

7.5 23.5%

Approach Delay (s)

Intersection Summary

Intersection Capacity Utilization

Approach LOS

Average Delay

A

2/27/2001

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBER	SBT	SBR
Lane Configurations	ሻ	*	1	4	1	1	۲	+	1			
Sign Control		Stop	A DEPTH		Stop	79. Mills		Free	201129	men for	Free	A.4.19
Grade		0%			0%			0%			0%	
Volume (veh/h)	20	10	360	110	15	5	60	45	20	0	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (veh/h)	22	11	391	120	16	5	65	49	22	0	0	0
Pedestrians												
Lane Width (ft)		a, estad		22/04/3	1.15			11110	ALC: NOT			125.05
Walking Speed (ft/s)											- 1	
Percent Blockage		122001			1. 100 1	122	1			N.C. 19. 1		
Right turn flare (veh)												
Median type		None		The second	None	AND ANY			1002 3			1922
Median storage veh)												
vC, conflicting volume	193	201	0	576	179	49	0	1. 1. 1.		71		
vC1, stage 1 conf vol		1										
vC2, stage 2 conf vol	NO PER	Quality.		100		ALC: Y	S. Anton	1. 1.2	, N. 45			-
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	1.578			A. Martin		LA CENT		C	125-14		and the	
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	97	98	64	54	98	99	96	1.745.468		100		2 100
cM capacity (veh/h)	726	667	1085	262	686	1020	1623	0.000	10501.77	1530	COLUMN T	
Direction Lane #	FB 1	FR2	EB 3	WBT	WB 2	WB 3	NB 1	NB 2	NB 3	1000	ACCOUNTS OF	102204
Volume Total	22	11	301	120	16	5	65	49	22			Another
Volume Left	22	0	0	120	0	0	65	19	0	NY 9 0125-12	in a feat	Sel 152 S. / 2
Volume Right	0	Ő	301	120	Ő	5	0	Ő	22	Dale Ship	0/31/059	122011-1
cSH	726	667	1085	262	686	1020	1623	1700	1700	and the second second	1000-0100	
Volume to Canacity	0.03	0.02	0.36	0.46	0.02	0.01	0.04	0.03	0.01	A State State		
Queue Length (ft)	2	1	42	56	2	0	3	0	0		100000000000000000000000000000000000000	1.
Control Delay (s)	10.1	10.5	10.2	29.8	10.4	8.5	7.3	0.0	0.0	1.3	101265	100
Lane LOS	B	B	B	D	B	A	A					
Approach Delay (s)	10.2	COLUMN ST	Contraction (26.7	The state	and the	3.5	and the second	16 2.4	AVIO VIII	10.51	11-11
Approach LOS	В			D					1.000		have been a second second	and specific the
Intersection Summary			si, 5-18	12/2/2/2			Site		Month's		1.1	West C
Average Delay			12.2									
Intersection Capacity Uti	lization	Same	37.5%		CU Lev	el of Ser	vice		A	30.17	P.C.	

	٠		\mathbf{F}	-	-		-	†	1	- S	Ļ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	ካ	*	۳,	٢	1	7	٢	†	7			
Sign Control		Stop	STREET	ALC: N	Stop		25	Free	1100		Free	- 1. S.
Grade		0%	and an even of the second		0%			0%			0%	
Volume (veh/h)	40	20	250	50	10	5	250	200	150	0	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0,92
Hourly flow rate (veh/h)	43	22	272	54	11	5	272	217	163	0	0	0
Pedestrians	an Ans as	2.100		11111111								
Lane Width (ft)	W. State	CAL ST		1.1.50	1 1 2 2	5. 75. 8		est also da	11.23			
Walking Speed (ft/s)		Sec. 1.4.7 - 1		117/11/2017								
Percent Blockage	10000				100	S						
Right turn flare (veh)		1912										
Median type		None	The second	1.727 6	None	Anna Anno	Sec. Sec.	21.23	10,047.0	1. 20/ - 105	1.1.1.1.1.1	
Median storage veh)												
vC, conflicting volume	772	924	0	1043	761	217	0	11 200	104	380		1.1
vC1, stage 1 conf vol												
vC2, stage 2 conf vol		ana ana	Sada S				11	a general	날림문			Sec. and
tC, single (s)	7.1	6.5	6.2	7.1	6,5	6.2	4.1			4.1		
tC, 2 stage (s)	8-115				11/12-20			5. H S	19-21-54	1.1.3	1. A. A.	2.5
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	84	90	75	57	96	99	83			100	0.000	1.
cM capacity (veh/h)	266	224	1085	126	279	822	1623	ENSERIE	SCHERAN	1178	15122	e di Pul
Direction, Lane #	EB 1	EB 2	EB 3	WB 1	WB 2	WB 3	NB 1	NB 2	NB 3	33841	a. Ala	State 1
Volume Total	43	22	272	54	11	5	272	217	163		\$13 m	Neticial
Volume Left	43	0	0	54	0	0	272	0	0			
Volume Right	0	0	272	0	0	5	0	0	163	Starting 1	E Luin	1.23
cSH	266	224	1085	126	279	822	1623	1700	1700			
Volume to Capacity	0.16	0.10	0.25	0.43	0.04	0.01	0.17	0.13	0.10			1.11.15
Queue Length (ft)	14	8	25	47	3	0	15	0	0			
Control Delay (s)	21.1	22.8	9.4	53.9	18.4	9.4	7.7	0.0	0.0		S Press	And Land
Lane LOS	С	С	Α	F	С	Α	Α					
Approach Delay (s)	11.8	ST. In		45.0		Sec. 14	3.2	121.05	246.6		En la	
Approach LOS	В			E								
Intersection Summary				23.3		2 K 18 2			1.2	No.	Sec. 2	6.94C
Average Delay			8.7									
Intersection Capacity Uti	ilization		28.1%	10-11-11-11	CU Lev	el of Sei	rvice	141	A		A CREEK 1	12110

	۶	->	\rightarrow	-	4		-	†	1	1	↓	-
Movement	EBL	EBT	EBR	WBL	WET	WER	NBL.	NBT	NBR	SBL	SBT	SBR
Lane Configurations	<u> </u>	1	7	۲j	+	7	ሻ	1	T			
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0			
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85			
Fit Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	Sec. as		
Satd. Flow (prot)	1770	1863	1583	1770	1863	1583	1770	1863	1583			
Fit Permitted	0.75	1.00	1.00	0.74	1.00	1.00	0.95	1.00	1.00			
Satd. Flow (perm)	1398	1863	1583	1384	1863	1583	1770	1863	1583			
Volume (vph)	40	20	250	50	10	5	250	200	150	0	0	0
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adi, Flow (vph)	43	22	272	54	11	5	272	217	163	0	0	0
Lane Group Flow (vph)	43	22	272	54	11	5	272	217	163	0	0	0
Turn Type	Perm		Free	Perm	Sec. 1	Perm	Perm		Perm			
Protected Phases		4			8			2				
Permitted Phases	4		Free	8		8	2		2	Part Part		
Actuated Green, G (s)	6.3	6.3	59.5	6.3	6.3	6.3	45.2	45.2	45.2			
Effective Green, g (s)	6.3	6,3	59.5	6.3	6.3	6.3	45.2	45.2	45.2	11		
Actuated g/C Ratio	0.11	0.11	1.00	0.11	0.11	0.11	0.76	0.76	0.76			
Clearance Time (s)	4.0	4.0		4.0	4.0	4.0	4.0	4.0	4.0			
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0			
Lane Grp Cap (vph)	148	197	1583	147	197	168	1345	1415	1203			63.112
v/s Ratio Prot		0.01			0.01			0.12				
v/s Ratio Perm	0.03	1. 10 . 1	0.17	c0.04		0.00	0,15		0.10			
v/c Ratio	0.29	0.11	0.17	0.37	0.06	0.03	0.20	0.15	0.14			
Uniform Delay, d1	24.5	24.1	0.0	24.7	23.9	23.9	2.0	1.9	1.9			
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Incremental Delay, d2	1.1	0.3	0.2	1.6	0.1	0.1	0.1	0.1	0.1			
Delay (s)	25.6	24.3	0.2	26.3	24.0	23.9	2.1	2.0	2.0			
Level of Service	С	С	Α	C	С	С	A	Α	Α			1000
Approach Delay (s)		5.0			25.8			2.0			0.0	
Approach LOS		Α		in a serie	С	2.2.3		Α	S. Malers	IN STATISTICS	Α	
Intersection Summary	19 C 10		Margan Mar				t i				81282	
HCM Average Control E	Delay	12012	4.6	H	ICM Le	vel of S	ervice		Α			
HCM Volume to Capaci	ity ratio		0.22									
Actuated Cycle Length	(S)	Section 1	59.5	5 Sum of lost time (s)					8.0			
Intersection Capacity U	tilization		28.1%	% ICU Level of Service					Α			
c Critical Lane Group	1 de la faire	1.5				1997-289		1.				

	٨	-	\rightarrow	4	-		-	Ť	1	- \	Ŧ	4
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBIT	NBR	SBL	SBT	SBR
Lane Configurations	3	+	7	3	4	1	η	•	7			
Sign Control	Availat	Stop	F. A.S.	189.8.13	Stop	1846	N.C.F.Sc	Free	Sale Martin		Free	10.5
Grade	Provide Control of Con	0%			0%			0%			0%	
Volume (veh/h)	50	15	400	150	20	5	175	180	50	0	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (veh/h) Pedestrians	54	16	435	163	22	5	190	196	54	0	0	Ő
Lane Width (ft)	et men			30 EN 10	1	1010 F	-161-215	(REALINE)	in the	1997 1997 6	SALE INT	2 . Annes
Walking Speed (ft/s)		110,000,000						and the second				and the second
Percent Blockage	With the		1111	ATE ST	S. Sala	1.1.1.1.2.2	0.000	1		27652	C. D. Start	125
Right turn flare (veh)				2011a.Dr. gave	12 Galactica			e la militaria de la composición de la		Call In Concession		
Median type		None	1012	1 63. 9	None	Molte-in	12.3.5	2 - 12 - C	125-22	19.45.176	1.200	A WAR
Median storage veh)		and the set		and the second								
vC, conflicting volume	592	630	0	1019	576	196	0	C. S. Martin	No.	250	- 12-74	
vC1, stage 1 conf vol		Parts Courses and Parts								Name, Street and Advances		
vC2, stage 2 conf vol	7.17 3.0			1			Share	182.14	1.175	J. J. Harris		ALC: US
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	and level	S.C.M.						1000			12 1	S
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	85	95	60	0	94	99	88		all a	100	a la	are a la
cM capacity (veh/h)	361	352	1085	113	378	846	1623	The second		1316		NUT ON
Direction Lane#	EBAR	NEB 2	EB 3	WB 1	WB 2	WB 3	NB 1	NB 2	NB 3	an the second	-AF. ass	Table 1
Volume Total	54	16	435	163	22	5	190	196	54	Sector St.		1000
Volume Left	54	0	0	163	0	0	190	0	0		1	and the second second
Volume Right	0	0	435	0	0	5	0	0	54		10.00	110213
cSH	361	352	1085	113	378	846	1623	1700	1700			
Volume to Capacity	0.15	0.05	0.40	1.44	0.06	0.01	0.12	0.12	0.03	Station -		
Queue Length (ft)	13	4	49	288	5	0	10	0	0	14		
Control Delay (s)	16.7	15.7	10.5	309.2	15.1	9.3	7.5	0.0	0.0	6 9 9	1 Second	100
Lane LOS	С	С	В	F	С	А	А	111-11-11-1				
Approach Delay (s)	11.4	14.5	12.155	267.0	See a series	122123	3.2	3-12-0	14.139		Ser Ster	(法律上部)
Approach LOS	В	- 91.menie		F	1150 and		11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1	111		Net Centre	and the second	
Intersection Summary		8.1	191623							No.	A DATE OF	
Average Delay	1000		51.0			-					10000	
Intersection Capacity Uti	lization		42.6%		CU Lev	el of Ser	vice	13.44	Α			Sec. 24

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	٢	1	1ª	لإ	+	7	ኘ	1	7			
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Total Lost time (s)	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0			
Lane Util. Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			220.01
Frt	1.00	1.00	0.85	1.00	1.00	0.85	1.00	1.00	0.85			
Fit Protected	0.95	1.00	1.00	0.95	1.00	1.00	0.95	1.00	1.00	52.511		
Satd. Flow (prot)	1770	1863	1583	1770	1863	1583	1770	1863	1583			ang the state of the
Fit Permitted	0.74	1.00	1.00	0.75	1.00	1.00	0.95	1.00	1.00			
Satd. Flow (perm)	1384	1863	1583	1392	1863	1583	1770	1863	1583			
Volume (vph)	50	15	400	150	20	5	175	180	50	0	0	0
Peak-hour factor, PHF	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Adi, Flow (vph)	54	16	435	163	22	5	190	196	54	0	0	0
Lane Group Flow (vph)	54	16	435	163	22	5	190	196	54	0	0	0
Tum Type	Perm		Free	Perm		Perm	Perm		Perm			
Protected Phases		4			8			2				
Permitted Phases	4		Free	8		8	2		2			
Actuated Green, G (s)	12.2	12.2	45.3	12.2	12.2	12.2	25.1	25.1	25.1			
Effective Green, g (s)	12.2	12.2	45.3	12.2	12.2	12.2	.25.1	25.1	25.1			
Actuated g/C Ratio	0.27	0.27	1.00	0.27	0.27	0.27	0.55	0.55	0.55			
Clearance Time (s)	4.0	4.0		4.0	4.0	4.0	4.0	4.0	4.0			
Vehicle Extension (s)	3.0	3.0		3.0	3.0	3.0	3.0	3.0	3.0			
Lane Gro Cap (vph)	373	502	1583	375	502	426	981	1032	877			TRANS!
v/s Ratio Prot	erendurer sortoo	0.01			0.01			0.11				
v/s Ratio Perm	0.04	1.15	0.27	c0.12		0.00	0.11	-	0.03			
v/c Ratio	0.14	0.03	0.27	0.43	0.04	0.01	0.19	0.19	0.06			
Uniform Delay, d1	12.6	12.2	0.0	13.7	12.2	12.1	5.0	5.0	4.7			
Progression Factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00			
Incremental Delay, d2	0.2	0.0	0.4	0.8	0.0	0.0	0.1	0.1	0.0			
Delay (s)	12.8	12.2	0.4	14.5	12.3	12.1	5.1	5.1	4.7			
Level of Service	В	В	Α	В	В	B	Α	Α	Α			
Approach Delay (s)		2.1			14.2			5.1			0.0	
Approach LOS		Α		S.S. 183	В			Α		1.11	Α	
Intersection Summary	Actes:		La de a		CITAN ST	NE M	and all		N COLLEGE	THE ST		ALC: NO
HCM Average Control E	Delay		5.3	ŀ	ICM Le	vel of S	ervice		Α	North Labor Co		(c)(= 12
HCM Volume to Capaci	ty ratio		0.32					and the second second		COLUMN TRADE		
Actuated Cycle Length	(S)	1212172	45.3	.3 Sum of lost time (s)					4.0			
Intersection Capacity U	tilization	1	32.9%	% ICU Level of Service					А	HTDE STAR		CONTRACTOR OF
c Critical Lane Group	e Group								N. 199			

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2/27/2001

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Movement	EBL	EBT	WBT	WBR	SBL	SBR	
Lane Configurations	শ	1	1	7	শ	7	
Sign Control	112120	Free	Free		Stop		
Grade		0%	0%		0%		
Volume (veh/h)	220	400	100	180	30	35	
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	
Hourly flow rate (veh/h)	239	435	109	196	33	38	
Pedestrians							
Lane Width (ft)		300		THE NO.			
Walking Speed (ft/s)							•
Percent Blockage			5352.012	14 A 14	\$ 15 A.B.		
Right turn flare (veh)							
Median type		24-22	181 - 194	Despise	None	The second	
Median storage veh)							
vC, conflicting volume	304			5 - 3	1022	109	
vC1, stage 1 conf vol							
vC2, stage 2 conf vol	1 1 1 1 1 1	Art Day	1993 A. 1993		2-2-10-00	15	
tC, single (s)	4.1				6.4	6.2	
tC, 2 stage (s)	Notre 1	- Aller	125-236				
tF (s)	2.2			- and the local land	3.5	3.3	
p0 queue free %	81	1000		Pala an	85	96	
cM capacity (veh/h)	1256				212	945	
Direction, Lane #	ĘB 1	EB 2	WB 1	WB 2	SB 1	SB 2	
Volume Total	239	435	109	196	33	38	
Volume Left	239	0	0	0	33	0	
Volume Right	0	0	0	196	0	38	
cSH	1256	1700	1700	1700	212	945	
Volume to Capacity	0.19	0.26	0.06	0.12	0.15	0.04	
Queue Length (ft)	18	0	0	0	13	3	
Control Delay (s)	8.5	0.0	0.0	0.0	25.1	9.0	
Lane LOS	Α	Section 1	2 House	26 (P) (B)	D	Α	
Approach Delay (s)	3.0		0.0		16.4		
Approach LOS				-	С		
Intersection Summary		P-Min				No. 12	
Average Delay	- Paulia	Same	3.1		N. Carl	1. Alexandre	
Intersection Capacity Uti	ilization	-	32.9%	IC	CU Leve	el of Service	A

A.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	+	7	٣	†	7	শ	+	7			
Sign Control	States and	Stop	553.9	121111	Stop	Same a	1	Free		SIS MAR	Free	STR.
Grade	1010-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	0%	0.550.000.00		0%			0%			0%	
Volume (veh/h)	45	25	275	50	15	5	400	200	150	0	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (veh/h)	49	27	299	54	16	5	435	217	163	0	0	0
Pedestrians												
Lane Width (ft)		L.L.			1. S	and the second			AND THE	in the second		
Walking Speed (ft/s)											· · · · · · · · · · · · · · · · · · ·	
Percent Blockage		No.			-				12 . S.			1 Page 1
Right turn flare (veh)										15		
Median type	Service Service	None	13.00		None	12 1911	1000		1943	Starte Spin	6	1222
Median storage veh)			1000			1						
vC, conflicting volume	1101	1250	0	1399	1087	217	0			380		110
vC1, stage 1 conf vol			CARDINE C	ON TOTAL	082101/							
vC2, stage 2 conf vol	S. S. Core			Carl Are		18.25	10.10	COLURN.	1111	100	59.7 Ja	Dars :
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)	The set				122		and the second	A LONDE				and a
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2	na o starte con Multipli Secto		2.2		
p0 queue free %	65	79	72	5	90	99	73			100	631 (cm)	a set a
cM capacity (veh/h)	138	126	1085	57	158	822	1623	18168.30	NGS MAY	1178		nigen a
Direction, Lane#	EB 1	EB 2	EB 3	WB 1	WB 2	WB 3	NB 1	NB 2	NB 3		2.2.2.3	13.50
Volume Total	49	27	299	54	16	5	435	217	163			111111
Volume Left	49	0	0	54	0	0	435	0	0	and the second second		And the second
Volume Right	0	0	299	0	0	5	0	0	163	Stores -	CARD S	114
cSH	138	126	1085	57	158	822	1623	1700	1700			
Volume to Capacity	0.35	0.21	0.28	0.95	0.10	0.01	0.27	0.13	0.10	11000	ENGLE.	
Queue Length (ft)	36	19	28	109	8	0	27	0	0			
Control Delay (s)	44.7	41.1	9.6	222.3	30.4	9.4	8.0	0.0	0.0	300.22	8.074	102613
Lane LOS	E	E	A	F	D	A	Α					
Approach Delay (s)	16.4		1. States	166.0	E NOTES		4.3	0.23345	To see	TONIS SIRE		
Approach LOS	С			F						and the second of the		
Intersection Summary				Neg	an de la		41-24					
Average Delay			17.6							the state of the s		1449-0401-04 5-000-001
Intersection Capacity Ut	ilization		34.1%		CU Lev	el of Sei	vice	The states	Α			Cast III

HCM Unsignalized Intersection Capacity Analysis

3: H Road & Site Access

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Movement	EBL	EBT	WBT	WBR	SBL	SBR		-t-they
Lane Configurations	ካ	•	•	7	ሻ	7		
Sign Control		Free	Free		Stop	CALL STREET		1.1.29
Grade		0%	0%		0%			
Volume (veh/h)	15	200	350	10	175	210		
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92		12-11C
Hourly flow rate (veh/h)	16	217	380	11	190	228		SEX
Pedestrians								
Lane Width (ft)		See.						192.12
Walking Speed (ft/s)								1
Percent Blockage				1441	10 10	1 Stand		ALC IS
Right turn flare (veh)								
Median type	1000		S. Ha		None			à
Median storage veh)								
vC, conflicting volume	391		1315.4	1.1	630	380		1.25
vC1, stage 1 conf vol								
vC2, stage 2 conf vol			Sec. Press	1.1.1.1		and the second		10
tC, single (s)	4.1				6.4	6.2		
tC, 2 stage (s)	CIST.		1200	1120 10	No.	NAMES OF STREET		22471
tF (s)	2.2				3.5	3.3		
p0 queue free %	99	Sec. Les	日本にの	10000	57	66		
cM capacity (veh/h)	1167				439	667		
Direction, Lane #	EB 1	EB 2	WB1	WB 2	SB 1	SB 2		
Volume Total	16	217	380	11	190	228		
Volume Left	16	0	0	0	190	0		State 1
Volume Right	0	0	0	11	0	228		
cSH	1167	1700	1700	1700	439	667	the second second second	
Volume to Capacity	0.01	0.13	0.22	0.01	0.43	0.34		
Queue Length (ft)	1	0	0	0	54	38		
Control Delay (s)	8.1	0.0	0.0	0.0	19.3	13.2		
Lane LOS	A			-	С	В		54 (4)
Approach Delay (s)	0.6		0.0	-	16.0			
Approach LOS		S. S.		Negeria (С	1997		1754
Intersection Summary	St. States	She like						
Average Delay			6.5	Ser Ser	Sector &	The same		
Intersection Capacity Uti	lization		40.8%	IC	CU Leve	of Service	A	

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations	7	Ť	7	۲	<u>†</u>	r.	٦	†	۳		1	
Sign Control	Series and	Stop			Stop			Free	1411		Free	C. Crock
Grade	a franciska	0%			0%			0%			0%	
Volume (veh/h)	60	20	550	150	25	5	210	180	50	0	0	0
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Hourly flow rate (veh/h)	65	22	598	163	27	5	228	196	54	0	0	0
Pedestrians												
Lane Width (ft)			N Via				5.2 S	a status	1.12.22		12112	12.14
Walking Speed (ft/s)								NO VINI PROVINCI	21.			
Percent Blockage	Sec. 23.	That was	- de a che		Section.	SOMPS	N. PARTY			154130		Million 21
Right turn flare (veh)								197 - 1 G-2				10000
Median type		None	The second	Section 1	None	145				1000	14 A. O.	11224
Median storage veh)										11.2411	12411	
vC, conflicting volume	671	707	0	1261	652	196	0	- 14 - 14 - 14 - 14 - 14 - 14 - 14 - 14	S. 2. 10	250		1000
vC1, stage 1 conf vol												
vC2, stage 2 conf vol	12 2025			6.0			-34° 2				4.24	14
tC, single (s)	7.1	6.5	6.2	7.1	6.5	6.2	4.1			4.1		
tC, 2 stage (s)			1.1. M	22.356		14.35		H Valle (Val	States of	11 5 12		A 1
tF (s)	3.5	4.0	3.3	3.5	4.0	3.3	2.2			2.2		
p0 queue free %	79	93	45	0	92	99	86		12:22	100	1.5.1	64. T. P. J
cM capacity (veh/h)	308	310	1085	56	333	846	1623	-	al and a state of the	1316	12.535	
Direction, Lane #	EB 1	EB 2	EB 3	WB 1	WB 2	WB 3	NB 1	NB 2	NB 3	(An append	2200 S	
Volume Total	65	22	598	163	27	5	228	196	54		See.	Next.
Volume Left	65	0	0	163	0	0	228	0	0			
Volume Right	0	0	598	0	0	5	0	0	54	125222		5.5
cSH	308	310	1085	56	333	846	1623	1700	1700			
Volume to Capacity	0.21	0.07	0.55	2.92	0.08	0.01	0.14	0.12	0.03	No. Starte		28.38
Queue Length (ft)	20	6	87	425	7	0	12	0	0			
Control Delay (s)	19.8	17.5	12.3	1023.0	16.8	9.3	7.6	0.0	0.0	10.00		250
Lane LOS	С	С	В	F	С	Α	Α					A.C. 1997
Approach Delay (s)	13.2	CALL DO		855.1	Sellen?	- Manager	3.6	Sec. 32	1. 1. 123	W.S.	10.545	
Approach LOS	В			F								
Intersection Summary						No. 16			11.			
Average Delay			131.1		-							
Intersection Capacity Ut	ilization		52.7%	40,200,201	CU Lev	el of Sel	vice	CA. 1200	A			Constant of

PLANNING COMMISSION **GRAND JUNCTION, COLORADO**

FOR

Gregg Cranston North Crest LLC Route 2 Box 81 Merino, CO 80741 **FINAL DECISION**

PP-2001-057

An application by Gregg Cranston of North Crest LLC, requesting approval of a preliminary plat for an 11-lot subdivision on 20 acres in an I-O zone district located on north side of H Road west of 3D Systems at the 27 ¼ Road alignment, was considered by the Grand Junction Planning Commission on April 10, 2001.

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After considering all the pertinent testimony and reviewing various data, the Planning Commission approved the preliminary plat upon a finding that it complies with the Growth Plan and Section 2.8 and 3.4.F of the City of Grand Junction Zoning and Development Code with the following conditions.

- 1. The 65 Ldn Noise Contour shall be shown on the final plat with a note referencing the conditional use permit's required in Table 7.3.
- 2. No lots within this subdivision shall have direct access to H Road. A note to this effect shall be placed on the final plat.
- 3. The detention pond in Tract A shall be improved with turf or substantial xeriscaping material, which minimizes the use of gravel or cobble at Final approval rather than a more unsightly alternative.
- 4. The applicant shall bring the existing asphalt on H Road up to city standards, as per the city engineer's comments, adjacent to this development. This can be accomplished with removal and reconstruction or overlay to provide a smooth profile. This condition does not include curb, gutter or sidewalk on the south side.
- 5. An avigation easement will be required at final plat.

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Bill Nebeker Senior Planner

<u> 4-16.2001</u> April 16,2001

c: Brian Hart

PLANNING COMMISSION GRAND JUNCTION, COLORADO

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FOR

Gregg Cranston North Crest LLC Route 2 Box 81 Merino, CO 80741

AMENDED FINAL DECISION

PP-2001-057

An application by Gregg Cranston of North Crest LLC, requesting an amendment to condition #3 approval of a preliminary plat for an 11-lot subdivision on 20 acres in an I-O zone district located on north side of H Road west of 3D Systems at the 27 ³/₄ Road alignment, was considered by the Grand Junction Planning Commission on July 24, 2001.

After considering all the pertinent testimony and reviewing various data, the Planning Commission approved an amendment to change condition #3 regarding the landscaping of the detention pond. The reason for the amendment is eliminate the requirement for landscaping that requires water since the Ute Water Board has refused to grant a tap for this purpose. The final conditions are as follows. Conditions 1, 2, 4, and 5 remain unchanged.

- 1. The 65 Ldn Noise Contour shall be shown on the final plat with a note referencing the conditional use permit's required in Table 7.3.
- 2. No lots within this subdivision shall have direct access to H Road. A note to this effect shall be placed on the final plat.
- 3. Amended to read as follows: The detention pond in Tract A shall be improved with weed barrier and gravel or cobble, combined with an architectural feature utilizing a split rail or open slat fence, large rocks and/or a decorative CMU wall to screen the pond from H Road.
- 4. The applicant shall bring the existing asphalt on H Road up to city standards, as per the city engineer's comments, adjacent to this development. This can be accomplished with removal and reconstruction or overlay to provide a smooth profile. This condition does not include curb, gutter or sidewalk on the south side.
- 5. An avigation easement will be required at final plat.

Bill Nebeker Senior Planner



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EXISTING SIGN

المحمد المقصافات والشموج المتصح والم

AASHTO AMERICAN ASSOCIATION & TRANSPORTAION OFF AC ASBESTOS CEMENT AMERICAN SOCIETY FOR ASTM AWWA AMERICAN WATER WORK BOC BACK OF CURB BF BUTTERFLY BOW BACK OF WALK BCR BEGIN CURB RETURN BOT BOTTOM СН CHORD CAP CORRUGATED ALUMINUM CDOT COLORADO DEPARTMENT CI CAST IRON CENTER LINE CLEAR CLR CONC CONCRETE CMP CORRUGATED METAL PIP CSP CORRUGATED STEEL PIP CG&SW CURB, GUTTER & SIDEW CU COPPER LONG CHORD CL SHORT CHORD CS DELTA ANGLE DUCTILE IRON DR DRIVEWAY ELEC ELECTRIC EL OR ELEV ELEVATION ECR END CURB RETURN EOP EDGE OF PAVEMENT

EXISTING ADJACENT PROPERTY LINE _____ EXISTING EASEMENT _____ EXISTING WATER LINE EXISTING FIRE HYDRANT d EXISTING WATER VALVE 8" SAN. EXISTING SANITARY SEWER EXISTING SANITARY SEWER MANHOLE EXISTING STORM SEWER EXISTING STORM SEWER MANHOLE 0 EXISTING STORM INLET EXISTING IRRIGATION LINE EXISTING IRRIGATION MANHOLE 0 EXISTING GAS LINE ------ GAS-------EXISTING UNDERGROUND TELEPHONE EXISTING UNDERGROUND ELECTRIC EXISTING OVERHEAD POWER EXISTING POWER POLE • PP EXISTING CABLE TV EXISTING RAILROAD EXISTING EDGE OF PAVEMENT EXISTING CENTER LINE _____ EXISTING RIGHT OF WAY EXISTING BARBED WIRE FENCE EXISTING CHAN LINK FENCE EXISTING BARRIER TYPE FENCE EXISTING WOVEN WIRE FENCE EXISTING WOOD FENCE -----EXISTING GUARD RAIL EXISTING RETAINING WALL 4' SW 2' C&G 6' CG&SW EXISTING SIDEWALK EXISTING CURB AND GUTTER EXISTING CURB, GUTTER, AND SIDEWALK EXISTING EARTH DITCH EXISTING CONCRETE DITCH <u>12" RCP</u> <u>12" RCP</u> <u>12" RCP</u> EXISTING CULVERT EXISTING CULVERT WITH HEADWALL EXISTING CULVERT WITH END SECTION EXISTING INDEX CONTOURS EXISTING INTERMEDIATE CONTOURS — — —4563— — — EXISTING POLE ANCHOR \longrightarrow

<u>LEGEND</u>

	PROPOSED EASEMENT
	PROPOSED WATER LINE
	PROPOSED FIRE HYDRANT
	PROPOSED WATER VALVE
	PROPOSED SANITARY SEWER
	PROPOSED SANITARY SEWER MANHOLE
	PROPOSED STORM SEWER
	PROPOSED STORM SEWER MANHOLE
	PROPOSED STORM INLET
	PROPOSED IRRIGATION LINE
	PROPOSED IRRIGATION MANHOLE
	PROPOSED RAILROAD
	PROPOSED EDGE OF PAVEMENT
	PROPOSED CENTER LINE
	PROPOSED RIGHT OF WAY
	PROPOSED LOT LINES
	PROPOSED LOT NUMBERS
	PROPOSED BARBED WIRE FENCE
	PROPOSED CHAN LINK FENCE
	PROPOSED BARRIER TYPE FENCE
	PROPOSED WOVEN WIRE FENCE
	PROPOSED WOOD FENCE
	PROPOSED GUARD RAIL
	PROPOSED RETAINING WALL
	PROPOSED SIDEWALK
	PROPOSED EDGE OF PAN
	PROPOSED FLOW LINE
	PROPOSED BACK OF CURB
	PROPOSED EARTH DITCH
	PROPOSED CONCRETE DITCH
	PROPOSED CULVERT
	PROPOSED CULVERT WITH HEADWALL
• •	PROPOSED CULVERT WITH END SECTION
	PROPOSED SIGN
	PROPOSED INDEX CONTOURS
	PROPOSED INTERMEDIATE CONTOURS

6" WATER W
.
8" SAN
12" STORM
.
IRRIG
······································
<u><u></u><u></u><u></u><u></u><u></u><u></u></u>
· · · · · · · · · · · · · · · · · · ·
24
\rightarrow
4' SW
EOP
FL
BOC
1. <u> </u>
<u> </u>
12" RCP
12" RCP
12" RCP

BOUNDARY BOUNDARY TEXT BUILDING ENVELOPES DIMENSIONS ALIQUOT SURVEY MARKER FOUND REBAR SET ALUMINUM CAP STREET NAMES TRAFFIC FLOW DIRECTION PROPOSED STREET FLOW DIRECTION DRAINAGE DIRECTION



LIST OF ABBREVIATIONS

CALL BEFORE YOU DIG 1-800-922-1987 NOTICE: FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES A MINIMUM OF 48

HOURS PRIOR TO CONSTRUCTION.

				A CARLES AND A C
OF STATE HIGHWAY	EX	EXISTING	PRC	POINT OF REVERSE CURVATURE
TCIALS	FB	FULL BODY	PT	POINT OF TANGENCY
	FES	FLARED END SECTION	PVC	POLYVINYL CHLORIDE
R TESTING MATERIALS	FF	FINISHED FLOOR	PCC	PORTLAND CEMENT CONCRETE
S ASSOCIATION	FH	FIRE HYDRANT	R	RADIUS
	FLG	FLANGE	RG	RESTRAINED GLANDS
	FTG	FOOTING	RP	RADIUS POINT
	• FS	FAR SIDE	RR	RAIL ROAD
	FL.	FLOW LINE	RCP	REINFORCED CONRETE PIPE
•	FC	FACE OFF CURB	REQ'D	REQUIRED
	FG	FINISHED GRADE	RT	RIGHT
PIPE	GV	GATE VALVE	ROW	RIGHT OF WAY
OF TRANSPORTAION	IRR	IRRIGATION	RL	LONG RADIUS
na da anti- Martina da anti-	L	LENGTH OF ARC	RS 👘	SHORT RADIUS
	LT	LEFT	SCH 🐺	SCHEDULE
	LF	LINEAR FEET	5	SLOPE
	LL	LONG ARC	SS 👘	SANITARY SEWER SERVICE
PE ¹	LS	SHORT ARC	STA	STATION
E	МН	MANHOLE	STL	STEEL
VALK	MJ	MECHANICAL JOINT	SW	SIDEWALK
	MW	MILL WRAP	(TYP)	TYPICAL
	N/A	NOT APPLICABLE	7	LENGTH OF TANGENT
	NS	NEAR SIDE	7B	THRUST BLOCK
	NIC	NOT IN CONTRACT	π	TOP OF CURB
	NRCP	NON-REINFORCED CONCRETE PIPE	vc	VERTICAL CURVE
	ŇOP	NO ONE PERSON	VCP	VITRIFIED CLAY PIPE
	NTS	NOT TO SCALE	VPC	VERTICAL POINT OF CURVATURE
	PC	POINT OF CURVATURE	VPI	VERTICAL POINT OF INTERSECTION
	PI	POINT OF INTERSECTION	VPT	VERTICAL POINT OF TANGENCY
	PR	PROPOSED	WM 🐰	WATER METER
	an Albert in stander. Die Stander aus die stander		Sec.	





PLAN OVERALL PRELIMINARY F CREST AL PARK IAL NORTH 20 (026) TH STR 81501 ANDesign وفيتناب سيشيك استبعت PRELIMINARY NOT FOR CONSTRUCTION MARCH 30, 2001 BENCHMARK: LS 20632 SOUTHEAST PROPERTY CORNER ELEVATION: 4781.43 (NAVD 1988) SHEET 3 9





SUM 01 48 17: g

NORTH CREST INDUSTRIAL PARK TOTAL ACREAGE 20.001 AC.

	1 ACRE
	N/A
CUL-DE-SAC)	N/A
ES	40 FEET
IG)	100 FEET
	15 FEET
	15 FEET
·	
	25 FEET
	25 FEET
	b.
	15 FEET
	🥪 25 FEET
STRUCTURES	56 N/A
SETBACKS ARE MORE	(10)

LAND USE TABLE

		17.360 Ac	86.80%	7			
<i>W.</i>		2.260 Ac	11.30%	1	•	5	
. O. W.		0.100 Ac	0.50%	1			
		0.280 Ac	1.40%	1			
alle en		f.			100 B		
		20.00 AC.	100%]			
				5			
OTS		1,1					
	1.81	UNITS PER	R ACRE	1			
		n the second]			
		1 N		-			
		$l^{(k)}$					
RIGHT-OF-WAY					ž		
<u> </u>					R.O.		
CENTER LIN	VE 18	s*	2'	4'		14'	
	0	VERTICAL CURB & GUT	TER	_	MUL 8' SIGHT ZONE	.T-PURPOS ASEMENT	F
		Mark Market	[H				

NTS

3 SEE EXHIBIT "C" FOR DETAILS OF MULTI-PURPOSE EASEMENTS ADJACENT TO ROAD RIGHT-OF-WAY.

PRELIMINARY NOT FOR CONSTRUCTION MARCH 30, 2001

100 SCALE: 1'' = 50'

AN

ЪL

PRELIMINARY

CREST AL PARK 4 L NORTH INDUSTRIA PLA Sign Ø \square

R

SHEET

5

OF

9

BENCHMARK: LS 20632 SOUTHEAST PROPERTY CORNER ELEVATION: 4781.43 (NAVD 1988)



A George A A Para

الحري المراجعة الجري

PROVIDE LINE TERMINATION WITH BLOW OFF VALVE-AND THRUST BLOCK





CONC B CULVERT

A GARANTA STRATEGICAL STRATEGICAL

____EXISTING ROAD-SIDE DITCH

DISCHARGE PROPOSED — STORM DRAIN TO EXISTING ROADSIDE DITCH

\$785

4780

ON-SITE STORMWATER



*****1 *****

· •

a di karangan karang Karangan kara

4790

ABANDONED IRRIGATION ------DITCH

