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Fil	e	1978-0039			
Da	te	<u>8/7/00</u> Proj	ect N	lame	: Greenwood Estates
P r e s e n t	S c a n e d	A few items are denoted with an asterisk (*), which mea ISYS retrieval system. In some instances, not all entries are also documents specific to certain files, not found on included. Remaining items, (not selected for scanning), will be man quick guide for the contents of each file. Files denoted with (**) are to be located using the ISYS ( in full, as well as other entries such as Ordinances, Resolu	des the kec Jue	the sign sta 1 pr 1 y S	y are to be scanned for permanent record on the ated to be scanned are present in the file. There andard list. For this reason, a checklist has been resent on the checklist. This index can serve as a System. Planning Clearance will need to be typed Board of Appeals, and etc.
Х	X	*Summary Sheet – Table of Contents			
		Application form			
		Receipts for fees paid for anything			
		*Submittal checklist			х.
		*General project report			
		Reduced copy of final plans or drawings			· · · · · · · · · · · · · · · · · · ·
		Reduction of assessor's map			
		Evidence of title, deeds			
		*Mailing list			
		Public notice cards			
		Record of certified mail			
	_	Legal description			
		Reduction of any mans – final conv			
		*Final reports for drainage and soils (geotechnical report	s)		
		Other bound or nonbound reports	<i>,</i> ,		
		Traffic studies			
	-1	Individual review comments from agencies			· · · · · · · · · · · · · · · · · · ·
		*Consolidated review comments list			<u> </u>
		*Petitioner's response to comments			
		*Staff Reports			
		*Planning Commission staff report and exhibits			
		*City Council staff report and exhibits			
	_	*Summary sheet of final conditions			
		*Letters and correspondence dated after the date of final expiration date)	apj	pro	val (pertaining to change in conditions or
		DOCUMENTS SPECIFIC TO TH	IIS	DI	EVELOPMENT FILE:
X	X	Follow-Up Form	X	X	Inventory & Evalutation of Land, Water, and Related Resources
X		Review Sheets	X	X	Geologic Report – 4/23/78
Χ	X	Preliminary Plan Application	X	X	Memo from C.E. Maguire, Inc. to Mesa Co. Health - 4/17/78-
X	X	Final Plat Appication	X	X	Letter from Ron Rish to Robert Coburn – 8/18/78
X		Legal Description	X		Letter from Ronald Rish to Robert Coburn – 10/11/78
X	x	Letter from Kathy Lofink to Green Tree Inc 5/4/78	X		Letter from Karl Metzner to Green Tree, Inc. – 6/29/78
X	x	Development Summary Form	x	X	Notes on file
X	x	Preliminary Plan			
x	X	Planning Commission Minutes - ** - 4/25/78, 6/27/78, 5/30/78			
x		Warranty Deed			
x	x	Supplemental Form for Additional Filings and Additional Subdivisions			
x		Legal Description			· · · · · · · · · · · · · · · · · · ·
x		Litility & Service Plan			
A V		Road Plans and Profiles			
<u>л</u>					<u></u>

DUMLOPMENT SUMMARY FORM -
CITY OF GRAND JUNCTION
Date: 4-3-78
Development Name: <u>GREENWOOD</u> ESTATES preliminary plan Filing
Location of Development: TOWNSHIP TIS RANGERIW, UMSEC 12 1/4 NW
Owner(s) NAME GREEN TREE, INC. 2820 NORTH AVE. ADDRESS GRAND JUNCTION, COLO. 81501
Developer (s) NAME SAME AS OWNER
ADDRESS

Type of Development	Number of Dwelling Units	Area* (Acres)	<b>۶ of *</b> Total Area	
X Single Family	31	4.68	80.4-	
( ) Apartments	the start of the start is the start of the			
() Condominiums				
( ) Mobile Homes	and a state which a state of the	مىلىكى بىلىكى بىلىك يۇنىچى بىلىكى	The state of the s	
() Commercial	N. A.	منتجمور منابع معان منابع مربو التربية		
( ) Industrial	N. A.	میں بین اور میں اور می اور میں اور میں	March and State and Annual	
( ) Other (specify)				4
	Street	1.14	19.6	
	Walkways		·	
Dedicated Sc	hool Sites	مىلىتىتى يە مەلىرىكى بىر مەلىكى بىر		
Reserved Sch	ool Sites	Sampandalister		
Dedicated Pa	rk Sites	(California		
Reserved Par	k Sites	an an star an		
Private Open	Areas	and a second		
Easements	i i			
Other (Speci	fy)			
<b>Bandada na na kana na kan</b>	TOTAL	~ ~ ~	100.0	
*By Map Measure	Page 1 of 2	5.82	100.0	'n

Estimated Wate	r Requiremen	its	10,85	0	-	gallons/day.
Proposed Water	Source(s)	CITY	OF	GRAND	JUN	CTION
Estimated Sewa	ge Disposal	Requir	rement	10,	850	gallons/day.
ACTION:						
Planning	Commission	Recomm	endat	ion		•
	Approval	(	)			
	Disapproval	(	)		•	
	Remarks					
	Date			,19	•	
City Council			•			
	Approval	(	)			
•	Disapproval	(	)	4		
	Remarks					
	Date		•	,19	······•	

Note: This form is required by C.R.S. 106-3-37 (4) but is not a part of the regulations of the City of Grand Junction.

Page 2 of 2

PRELIMINARY PLAT APPLICATION 27-2.2

Fee 🦰 d Amount \$ 21500 Date 4-3-78

A. (18) copies of this application required. Numbering system corresponds with Grand Junction Development Regulations. Layouts and designs initiate for this application should incorporate the Design Standards reviewed in Section III of the regulation. If question not applicable, indicate by n/a.

GREENWOOD ESTATES в. name of subdivision

с. Owners and/as subdividers.

	GREEN TREE, INC. name 2820 NORTH AVE. GRAND JUNISTICH COLO.	name	name
	address	address	address
	243-7980	۰ 	
	business phone	business phone	business phone
	Designer: CEM SURVEYORS & ENGI	NEERS, INC.	-7089
	name 656 31 ROAD GRAND JUNCTION, COL	D. 81501 L.S. 10386	siness phone
D.	address Legal description. (Atta	registra ENG-R. BY $WAYA$ ach additional sheets a	ation and number $PE-LS$ ELIZER of GR. TREE 14113 as necessary).
	see attached shut		
E.	Total acreage <u>5.82</u> Eighteen (18) copies of If "no", explain.	map submitted yes	<u>X</u> no
The tair (see	following check list shans the essential informate regulations for detaile	all be completed to instion required by the su ed information).	sure that the map con- ubdivision regulations

27-2.2 f. Scale and Size

D.

Ε.

- (1)Proposed Name
- Location and boundaries (2)
- Names and Addresses of subdivider and (3) engineer or surveyor
- (4)Date of preparation
- (5) Total acreage
- Location and dimensions for existing (6)streets, alleys, easements and water courses

(7)	Location	dimensio	ons	and	name	s of	prop	osed
	streets,	alleys,	eas	emer	nts,	lot	lines	and
	public si	ites						

On

Х

- (8) Topography
- (9) Floodplain designation
- (10) Land Use breakdown - number and size of lots
- (11) Sites for multi-family residential, business, or non-public uses Adjacent zoning Names and Locations of adjoining sub-
- (12)
- (13) divisions, names and dimensions of existing streets and other relevant data on adjoining properties
- Location and size of existing sewer and (14)
- water lines and proposed utility easements Location and size of proposed water and (15) sewer taps

Text Eighteen (18) copies of text material in report form submitted yes <u>X</u> no\_\_\_ If "no", explain:

27-2.2 f

(4) Copy of certificate of title with a list of all mortgages, judgments, liens, etc. of record.

Subdivision summary form

This application completed by: CEM SURVEYORS C ENGINEERS, INC. name name 656 31 ROAD GRAND JUNCTION address . Signature address and date

aon not app	plicab	le, indic	cate by n/a.	nt Regulati	ons, ii g	162-
GREENWOOD	EST	ATES		Fee Pai	a\$290°°	5-1-78
name	of sul	bdivisior	n		amount	date
lame and add GREEN TRI	iress EE, I	of land o	owners anl/or sub - Owner, Subdivi	odividers.	Developer,	/Contrac holder
name 2820 Nort GRAND JUN	H AVE.	, Colo.	name		name	
addre	SS	inghannan inninan an a	address		addre	SS
0 4 3						
243-1	780		huginog ph		huginog	
DUSTINES	s phon	e	nusiness pho	Jile	DUSTIIES	s phone
. Total S	ubdivi	sion sub	mitted yes	, porti	ion	
Eightee	n (18)	copies :	submitted yes	date	5-1-1	18
75	<b>1</b>		yes		no	None
If so, The followi contain the culations:	list ( ng che essen (See	add atta ck list tial inf regulati	yes ched sheets if no shall be complete ormation required ons for detailed	ecessary) ed to insur d by the su informatio	no re that the ubdivision on).	Mone maps re-
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- Severyor or Engineer Certifeation Appropriate certification backs (12)
- (13)
- Clerk and Recorder Certification (14)
  - Block

Supporting Documents

. •

Copy of certificate of title with list 27-2.3 c. (13)of all mortgates, judgments, liens, easements, contracts and agreements filed w/ prelim of record.

(14) Proof of easement dedication

to follow

40

hone

none

follow

d. (1)Improvements Guarantee (2)Composite Utility Plan

The following check list shall be completed to insure that design standards required by the subdivision regulations are met. (See regulations for complete details)

Site Considerations 27-3.1 Streets, Alleys and Easements 27-3.2 27-3.3 Blocks 27-3.4 Lots 27-3.5 Sidewalks 27-3.6 Irrigation sytems and design 37-3.7 Public Sites Reservations and Dedications

This application completed by:

CEM SURVEYORS & ENGINEE	RS, INC.
name 656 31 ROAD	name
GRAND JUNCTION, COLO.	
address	address
Suther T. Musque	- 5-1-78
signature	date
	•

#### SUPPLEMENTAL FORM FOR

#### ADDITIONAL FILINGS AND ADDITIONAL SUBDIVISIONS

TO: Department of Regulatory Agencies Colorado Real Estate Commission 110 State Services Building 1525 Sherman Street Denver, Colorado 80203

In compliance with Title 12, Article 61, Part 4, CRS, 1973, as amended, and Commission Rules, application is hereby made to the Colorado Real Estate Commission for registration and certification of additional subdivision(s) and in support of this application the following statements are made under oath:

1.	Registered	Name	Green	Tree Inc.			Phone	243-7980
2.	Principal O	ffice	Address	28201 No	. Ave.	Grand	Junction.	Colo. 81 501
				(Stree	:)	(City	) (State	) (Zip Code)

3. List any brokerages to be used in the State of Colorado for the sale or lease of subdivided lots or units: (If an open listing has been given or the question is otherwise not applicable, please explain.)

Any and all brokerages will and do have the opportunity

to sell Green Tree, Inc. property.

- 4. Have you read and do you understand the Registration and Certification of Subdivision Developers statute (1973, CRS, Title 12, Article 61, Part 4, as amended) and the latest Commission Rules pursuant thereto? Yes
- 5. If any change of ownership of 10% or more of the financial interest of the applicant has occurred, define the change as follows:

(a)			
• • •	(Name)		(Residence)
<u>محمد في الم</u>	(Capacity and Title)	(Business Address	s) Ownership amount (in%)
(b)			
	(Name)	n Malana yang kang pangkan kang kang pangkan kang pangkan kang pangkan kang pangkan kang pangkan kang pangkan k	(Residence)
	(Capacity and Title)	(Business Addres	s) Ownership amount (in%)
(c)	وروا می از این و اگر از این از این و از این از این این این این این وی وی وی این این این این این این این این این		
•	(Name)		(Residence)
	(Capacity and Title)	(Business Address	s) Ownership amount (in%)

- 6. Are there any liens or unpaid court judgments filed against you at the present time? (If yes, submit details on a separate sheet.) NO
- 7. Give the name or other information required below for each subdivision which you intend to sell or lease.
  - (a) Name of the subdivision: Greenwood Estates
- NOTE: If the applicant is the owner of additional subdivisions other than those given on page 2 of this application, attach a separate sheet giving the same information for additional subdivisions.

ALSO -- THE SAME INFORMATION MUST BE FURNISHED TO THE COMMISSION IF ADDITIONAL SUBDI-VISIONS OR FILINGS ARE ACQUIRED IN THE FUTURE.

REC-SDSF-8/76

- (b) Location of the subdivision by street or rond and direction and distance from nearest city: <u>corner of 17 th. Stree and Walnut Ave. and</u> <u>located in Grand Junction Lity limits</u> Located in County of <u>Nesa</u> State of <u>Colorado</u>
- (c) Number of lots or units: <u>32</u>
  Approximate size of lots or units: <u>lots 90' & 80' approximately</u>
- (d) Who holds legal title to this subdivision? Green Treen, Inc.
- (e) I, the applicant, have title to the above named subdivision and my interest is evidenced by a (check one) react, option to purchase, other (explain)
- (f) Have all the local, state and other governmental regulations been complied with at this time? yes

DO NOT ANSWER QUESTIONS BELOW IF CONDOMINIUMS OR TOWN HOUSES

(g) Will each site or lot be surveyed before sale or lease?Yes If answer is no, please explain when this will be done or how the property

sold will be identified for each purchase if not surveyed.

- (h) Has a plat of this subdivision been filed and approved by the county or local government in which it is located? Yes
- (i) If item (h) has not been done, when will this be done?
- (j) Will each site or lot be staked before sale or lease? Yes
- 8. DOCUMENTATION MUST BE SUPPLIED OF THE FOLLOWING: (If not supplied, application will be returned for completion.)
  - (a) If the applicant is a corporate developer, a copy of the Certificate of Authority to do business in the State of Colorado or a Certificate of Incorporation issued by the Secretary of State for the State of Colorado must accompany this supplement. (If applicable)
  - (b) Copies of documents evidencing the title or other interest in the subdivision.
  - (c) If the subdivision is subject to a blanket encumbrance, there must be filed with the Commission evidence that there is a provision or supplementary agreement providing that the purchaser or lessee of any lot or parcel can obtain legal title or other interest contracted for, free and clear of such blanket encumbrance upon compliance with the terms of the purchase or lease. If the subdivision is not subject to any blanket encumbrance, a statement to that effect will be sufficient.
  - (d) Sample copies of contracts of sale, notes, deeds, and other legal documents to be used to effectuate the sale or lease, except if standard Colorado Real Estate Commission approved forms, with no printed additions, are used exclusively, a statement to that effect will be sufficient.
  - (e) A true statement of the provisions for legal access, sewage disposal, public utilities, including water, electricity, gas and telephone facilities in the subdivision to be offered for sale or lease. (If a subdivision developer is obligated under Federal law to issue a property report, said property report shall be used in lieu of a subdivision developer's own statement.)

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Page 2



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C-E Maguire, Inc. Combustion Engineering, Inc. 760 Horizon Drive Grand Junction, Colorado 81501 Tel. 303/243-7569



Architects • Engineers • Planners

DATE: April 17, 1978

Mesa County Planning Commission T0: Colorado Department of Health

Gentlemen:

A gamma radiation survey was conducted in compliance with Senate Bill #35 as a portion of our client services. The following information is presented as details of this survey.

Proposed Building Site Location/Description - Greenwood Estate	s subdivision (approximately 5.8 acres)
Owner's Name Green Tree, Inc.	-
Owner's Address 2820 North Avenue, Grand J	unction, Colorado
Survey Requested by <u>C</u> and M, Inc L. Mu	sgrove
Date of Survey April 14, 1978	Survey by J. Tell Tappan
Instrument Type Mt. Sopris Model SC-129	Serial Number 300
CALIBRATION: Cross calibrated with gas pr	oportional ion chamber with Ra-226
SURVEY RESULTS (See attached plat map)	
<pre>() All meter readings less than    (20 micro R/h). No tailings</pre>	0.02 milliRoentgen per hour indicated.

Highest reading between .02 - .04 milliRoentgens per hour. ()

(\_<u>x</u>) Some readings greater than .04 milliRoentgens per hour.

() Gamma radiation coming from adjacent area.

Tailings deposits indicated. ()

Page 2

Description of Deposit <u>Along east bank of unused drain ditch in southeast section</u> of property. Adjoining west section of existing house and extending west about 300 feet.

RECOMMENDATIONS: Remove radioactive material from areas indicated on the map prior to commencing site preparation for structures. Contact the Colorado Department of Health (phone 245-2400) for monitoring assistance and further guidance.

Respectfully submitted,

C-E MAGUIRE, INC.

Gordon W. Bruchner, P.E., L.S.

GWB:ymc

Enclosures: Plat Map

cc: l - Client w/enclosure
 l - File w/enclosure

GREENWOOD ESTATES

SARATE X

GAMMA RADIATION SURVEY

BY: J. TELL TAPPAN, HEALTH PHYSICIST DATE: APRIL 14, 1978 INST: MT. SOPRIS MODEL SC-129 WITH

1"× 1/2 NaI (TL) CRYSTAL 0.0XX = UNCORRECTED METER READING IN mR/HR. ///// = APPROXIMATE AREA OF RADIOACTIVE MILL TAILINGS

1" = 100'

SCC-CONS-5 10-75 FILE-CODE CONS-14-5

4

#### U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

REQUESTED BY	Greenwood Estates c/o_C_&_M_Engineer	Subdivision	Grand Junction, CO
ASSISTED BY	C. Malone	DATE	April 17, 1978
	AL		
	Soils map, descri	ptions and interpreta	ations needed for
	subdivision plann	ing and submission.	
<u></u>		•	
		· · ·	
			-
	######################################		******
	·····	······································	
SUGGESTED SOL	UTION(S) Attac	ched are a soils map,	the soils descriptions,
SUGGESTED SOL and the	soils interpretat	thed are a soils map, tions for the soils sh	the soils descriptions,
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SUGGESTED SOL and the note tha This soi deeper, and fros supporti On site for the	soils interpretat soils interpretat at the Cc soil has il is also shallow but have limitati st action potentia ing capacity and w checks should be possibility of hi	thed are a soils map, tions for the soils shales a high shrink-swell to shale. The Billi ons due to the moderand. All these soils h will require a very go made in the area of the oph water tables. The	the soils descriptions, nown on the map. Please and frost action potential. ings soils, Bc and Bd are ate to high shrink-swell have a poor traffic bod base for all streets. the Bc soils in particular ere is no known flood

\* Check appropriate category



SCS-CONS-15 U. S. DEPARTMENT OF AGRICULTURE OCTOBER 1974 SOIL CONSERVATION SERVICE SOIL MAP Owner Greenwood Estates Subdiv. \_\_\_ Operator. County\_\_\_ Colorado Mesa \_ State \_ • Soil survey sheet (s) or code nos. 3-4Approximate scale <u>8</u> m Prepared by U. S. Department of Agriculture, Soil Conservation Service cooperating with \_\_\_\_\_\_\_ Mess Soil Conservation District

U. S. DEPARTMENT OF / **TURE** SOIL CONSERVAL. RVICE

Tentative - subject to revision FILE CODE SOILS-12

Billings silty clay loam, 0 to 2 percent slopes (Bc) (Bd) similar SOIL SURVEY INTERPRETATIONS

This soil is derived from deep alluvial deposits that came mainly from Mancos shale. Although the dominant texture is silty clay loam, the profile may have seams of loam, clay loam, fine sandy loam, or a very fine sandy texture. Its tilth and workability are fair; but when it is mostly a silty clay loam, it puddles quickly when wet and bakes so hard when dry that good tilth can be maintained only by proper irrigation and special cultural practices. Slopes range up to those having two feet of fall ESTIMATED PHYSICAL AND CHEMICAL PROPERTIES in every 100 feet.

MLRA: Mesa County, Colo. Grand Junction Soil Survey Area

MAJOR SOIL HORIZONS (INCHES)	CLAS	SIFICATION		COARSE FRACT.	PERCE	NTAGE LE ASSING SIE	SS THAN 3 INCHES					AVAILABLE							
	USDA TEXTURE	UNIFIED	мазно	°,	4	10	40	200	LL	Pi	PERMEA- BILITY (in./hr)	WATER CAPACITY (In/In)	SOIL REACTION (PH)	SALINITY (EC x 10 25°C)	SHRINK- SWELL POTENTIAL	POTENTIAL FROST ACTION			
0-60	Silty clay loam	CL	A-7	-	100	90- 95	85- 90	75- 90	-	-	•3-•75	.1719	7 <b>.9-9.</b> 0	<u>1</u> /	Moderat	3 Mod. to high 0-60			
DEPTH TO E	DEPTH TO BEDROCK CR HARDPAN: > 60" FLOOD										D HAZARD: Rare								
DEPTH TO S	DEPTH TO SEASONAL HIGH WATERTABLE 20"																		

SUITABILITY AND MAJOR FEATURES AFFECTING SOIL AS RESOURCE MATERIAL

TOPSOIL: Poor; high clay content	GRAVEL: <u>2</u> /
SAND: 2/	ROADFILL: Fair; moderate shrink-swell; A-2 to A-7

DEGREE OF LIMITATION AND MAJOR SOIL FEATURES AFFECTING SELECTED USE

LOCAL ROADS AND STREETS: Severe; poor traffic-supporting capacit;	;SEPTIC TANK FILTER FIELDS: Severe; slow permeability; poor interna
derate to high water tables common.	drainage; seasonal high water tables.
SHALLOW EXCAVATIONS: Severe; high water tables common	sewage LAGOONS: Moderate; moderate piping hazard; bena material Unified CL
DWELLINGS: Moderate; high shrink-swell potential; subject to water table build up.	CORROSIVITY - UNCOATED STEEL:
RESERVOIR AREA Moderate; seepage through gypsum seams; high water table.	CORROSIVITY - CONCRETE:
RESERVOIR EMBANKMEN Moderate; moderately erosive; moderate shrink-swell potential	

1/ Property highly variable requiring on-site investigation.
2/ Unsuitable; limited quantity or limited quality of sand of error lands.
Frost action potential is greater due to irrigation of deservables.

SCS-

BILLINGS SILTY CLAY LOAM, 0 to 2 percent slopes, Class IIs Land (Bc)

This soil, locally called adobe, is one of the most important and extensive in the Grand Valley. It is derived from deep alluvial deposits that came mainly from Mancos shale but in a few places from fine-grained sandstone materials. The deposits ordinarily range from 4 to 40 feet deep but in places exceed 40 feet. The deposits have been built up from thin sediments brought in by the streams that have formed the coalescing alluvial fans or have been dropped by the broad washes that have no drainage channel. The thickest deposit, near Grand Junction, was built up by Indian Wash.

Although moderately fine textured, this Billings soil permits successful growth of deep-rooted crops such as alfalfa and tree fruits. Its permeability is normally not so favorable as that of the Mesa, Fruita, and Ravola soils. Its tilth and workability are fair, but it puddles so quickly when wet and bakes so hard when dry that good tilth can be maintained only by proper irrigation and special cultural practices. Runoff is slow and internal drainage is very slow.

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Like all other soils in the area, this one has a low organic-matter content. Under natural conditions it contains a moderate concentration of salts derived from the parent rock (Mancos shale). In places, however, it contains so much salt that good yields cannot be obtained. Some large areas are so strongly saline they cannot be used for crops. Generally, this soil is without visible lime, but it is calcareous. In many places small white flecks or indistinct light-colored streaks or seams indicate that lime, gypsum, or salts are present.

Soil limitations are classified as severe for local roads and streets (poor traffic-supporting capacity, moderate to high water tables common), shallow excavations (high water tables common), and septic tank filter fields (slow permeability, poor internal drainage, seasonal high water table).

#### SOIL SURVEY INTERPRETATIONS

#### U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

FILE CODE SOILS-12 In Billings series are deep, well drained soils formed in alluvium from shale on fans and flood plains. Surface layer is light brownish gray silty clay loam 5 to 7 inches thick. The underlying layer is light brownish gray silty clay loam to 60 inches. Average annual precipitation is 8 to 11 inches. Frost-free period is 100 to 160 days. Slopes range from 1 to 6 percent. EBILINGS SERIES: Billings SERIES: Billings STATE: Colorado MLRA: D34 CLASSIF: Typic torrifluvent, fine silty mixed, Solesmony mode

MAJOR SOIL HORIZONS (INCHES)	CLAS	SIFICATION		COARSE FRACT. > 3 IN.	PERCEN	TAGE LE	SS THAN 3				DEDMEA	AVAILABLE	501			POTENTIA			
	USDA TEXTURE	UNIFIED	AASHO	*	4	10	40	200	200 LL	PI	BILITY (in./hr)	CAPACITY (In7In)	REACTION (PH)	(EC x 10 #25°C)	SWELL	FROST			
0–60	Silty clay loam	CL	A-6	0	100	100	95- 100	90- 95	25- 40	10- 20	0.06- 0.2	0.17- 0.20	7.4- 9.0	2–8	Mod.	High			
DEPTH TO E	DEPTH TO BEDROCK OR HARDPAN: > 60"									FLOOD HAZARD: Rare									
DEPTH TO SEASONAL HIGH WATERTABLE > 6' SUITABILITY OF SOIL AS SOURCE OF SELECTED MATERIAL AND FEATURES AFFECTING USE TOPSOIL: Fair - too clavey																			
SAND:	Unsuitable					050					or - 10	w stren#	rth, shi	cink-sw	rell				
LOCAL ROADS AND STREETS: Moderate - low strength, shrink-swell									SEPTIC TANK ABSORPTION FIELDS: Severe - perce slowly										
SHALLOW E	EXCAVATIONS:							SE	Moderate - slope, low strength										
DWELLINGS:	DWELLINGS: a) w/ basements Moderate - low strength, shrink-swell								CORROSIVITY: a) uncoasted steel High										
b) w/o basements Moderate - low strength, shrink-swell								11	b) concrete High										
SANITARY L (TRENCH T	AND FILL : YPE) MO	derate	- floc	ods															
<b>.</b>					MAJO	OR SOIL	FEATUR	ES AFFEC	TING S	ELECTED	O USE								
POND RESERVOIR AREAS										a al	w inta	ke							

Slope. piping. low strength	Slope, slow intake
MBANKMENTS, DIKES, and LEVEES Low strength - piping	TERRACES and DIVERSIONS Not needed
RAINAGE of CROPLAND and PASTURE	GRASSED WATERWAYS Not needed

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SCS - SOILS - 2C (Rev.)

8 - 71

BILLINGS SILTY CLAY LOAM, 2 to 5 percent slopes, Class IIe Land (Bd)

Except for its stronger slope, the soil is almost the same as Billings silty clay loam, 0 to 2 percent slopes.

Many of the areas lie along large drainageways or washes where they are difficult to reach. Even a large number have such an uneven surface that considerable leveling would have to be done before they could be cropped. The cost of leveling, together with the expense of controlling erosion and gullying, discourages farmers from using them.

Many of the uncultivated areas have moderate concentrations of salts, but they are not particularly difficult to reclaim because they border natural ditches or washes which afford free disposal of irrigation water. Furthermore, for the most part, they have a porous substratum.

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Soil limitations are classified as severe for septic tank absorption fields (percs slowly).

### Tentative - subject to revision

## Chipeta-Persayo silty clay loam, 5 1 15 percent slopes (Cc)

#### SCS - SOILS - 2C (Rev.) 8 - 71

FILE CODE SOILS-12

#### SOIL SURVEY INTERPRETATIONS

#### U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

#### These soils are light colored, highly calcareous, shallow and clayey textured. They SERIES: Chipeta-Perseyo STATE: Colorado MLRA: 34

overlie weathered Mancos shale that grades into consolidated shale at 2 to 4 feet in depth. Gypsum crystals and seams are common throughout. These soils occur on rolling hills associated with the Mancos shale outcrops.

CLASSIF: Typic torriorthent:

ESTIMATED SOIL PROPERTIES SIGNIFICANT TO ENGINEERING

clayey, mixed, calcareous, mesic, shallow

MAJOR	CLAS	SIFICATION		COARSE	PERCE	NTAGE LE	SS THAN 3	INCHES				AVAILABLE WATER CAPACITY (In7In)	SOIL REACTION (PH)	SALINITY (EC x 10 25°C)	SHRINK- SWELL POTENTIAL	POTENTIAL FROST ACTION				
(INCHES)	USDA TEXTURE	UNIFIED	AASHO	*	4	10	40	200	LL	PI	PERMEA- BILITY (in./hr)									
0-15	Silty clay loam	CL	A-7	0	100	100	95- 100	85 <b>-</b> 95	30 <b>-</b> 50	20- 30	0.06- 0.2	0.19- .21	7 <b>.9-</b> 8.4	Mod.	Mod. to high	Mod to High * 0-15				
								į												
DEPTH TO E	BEDROCK OR HARDP	AN: Impe	rvious	shale	e at 2	2-4"	FLOOD	HAZARD	Rare											
DEPTH TO S	SEASONAL HIGH WATI	ERTABLE	None					HYDRO	DLOGIC GR	OUP	D									
L			SUITABILIT	Y OF SC	DIL AS S	OURCE (	OF SELEC	TED MA	D MATERIAL AND FEATURES AFFECTING USE											
TOPSOIL:	Poor: too c	layey,	thin					GR	GRAVEL; Unsuitable											
SAND:	Unsuitable							RO	ROADFILL: Unsuitable											
r <del></del>						DEC	GREE OF	SOIL LI												
LOCAL ROA	os and streets: re: high pl	asticit	ty inde:	x, sh:	rink-s	swell		Se	Severe: slowly permeable, shallow											
SHALLOW E	EXCAVATIONS: re: shallow	r to cor	nsolida	ted sl	hale			కిశ్	Severe: Stope, shallow to impervious layer											
DWELLINGS:	: a) w/ basements Se	vere:	shallow	to sl	hale;	shrir	ık-swe	11 00	CORROSIVITY:											
	b) w/o basements	Moderat	te: shr	ink-s	well					b) con	creta I	wo								
SANITARY L (TRENCH T	AND FILL : YPE) Severe :	shallo	w to co	nsoli	dated	shale	3													
					MAJ	OR SOIL	FEATUR	ES AFFEC	CTING S	ELECTED	USE									
POND RESET	POND RESERVOIR AREAS Shallow to consolidated shale										Shallow soil, moderate salinity, erodible soils									
EMBANKMEN Shol	TS,DIKES, and LEVER	ES GRANG						TER	TERRACES and DIVERSIONS Shallow to consolidated shale											
DRAINAGE C	CROPLAND and PAS	STURE SOLIDAT	ed shal	e			GR /	GRASSED WATERWAYS Frodible soils shallow notential siltation												

Erodible soils, shallow, potential siltation \* Frost action potential is greater due to irrigation of desert lands.

CHIPETA-PERSAYO SILTY CLAY LOAMS, 5 to 10 percent slopes, Class VIe (Cc)

The soils are derived from material weathered from the thick Mancos shale formation. Except for their silty clay loam texture in the surface layer, the soils are very similar to those of the Chipeta-Persayo shaly loam complex on 5 to 10 percent slopes.

The Persayo soil in this complex contains somewhat more silt and fine sand and is slightly more permeable than the Persayo soil in the complex of Chipeta and Persayo shaly loams, but it is nonetheless highly erodible if cropped. In fact, the platy, compact, impervious shale under both soils of this complex permits so much erosion that only a sharp or choppy surface remains.

Soil limitations are classified as severe for local roads and streets (high plasticity index, shrink-swell), shallow excavations (shallow to consolidated shale), dwellings with basements (shallow to shale, shrink-swell), sanitary land fill (shallow to consolidated shale), septic tank absorption fields (slowly permeable, shallow), and sewage lagoons (slope, shallow to impervious layer).

# A

# GEOLOGIC REPORT

# ON

# GREENWOOD ESTATES SUBDIVISION

by

# Jack E. Roadifer

April 23, 1978

## A GEOLOGIC REPORT

ON

## GREENWOOD ESTATES SUBDIVISION

MESA CO., COLO.

by

## Jack E. Roadifer

LOCATION: The proposed subdivision is in the  $SE_{4}^{1}$ ,  $NW_{4}^{1}$ , section 12, T. 1 S., R. 1 W., Mess County, on the northeast side of Grand Junction.

<u>GEOLOGIC FORMATIONS</u>: As shown on the enclosed geologic map, the surface material is alluvium consisting mostly of clay and silt with minor amounts of sand and gravel. It is derived from the Mancos Shale, which underlies the alluvium and outcrops a few hundred feet north of the property. The alluvium is estimated to be 10 to 20 feet thick.

STRUCTURE: The Mancos Shale dips about two degrees to the northeast toward the axis of the Piceance basin. The nearest fault is the inactive Redlands fault about five miles to the south.

<u>GEOLOGIC HAZARDS</u>: There are no geologic bazards related to topography. The area is quite flat with a total relief of about 10 feet. The irrigation canal (Grand Valley Canal) along the north side of the property will carry runoff from the low abale bills to the north. No flooding danger is apparent.

<u>CONSTRUCTION</u> <u>FACTORS</u>: Surface material is mostly silty and should not present any particular problems for construction; however, the high clay content of Mancos Shale-derived shales in some areas makes it necessary to consult a qualified soils engineer before construction is begun. Construction methods similar to those used in nearby subdivisions would probably be suitable here.

<u>WATER TABLE</u>: There is no indication of a high water table in this area. Although some percolation from the Grand Valley Canal could be expected, a ditch about 75 feet from the cahal did not intersect the water table at its depth of about 10 feet. Excessive irrigation of lawna could cause a water table buildup in this fine soil with Mancos Shale underneath.

WATER SUPPLY AND DISPOSAL: Mater will be supplied by municipial system and disposed of by sewer system.

<u>SUMMARY:</u> There are no geologic bazards related to topography in the area. The proposed subdivision is bordered on three sides by existing or now-building subdivisions. There is no geologic reason why this subdivision should not be approved.

Submitted by; Jack & Loudifer

(Dr. Jack E. Roadifer, Geologist



CHIPETA-PERSAYO SILTY CLAY LOAMS, 5 to 10 percent slopes, Class VIe (Cc)

The soils are derived from material weathered from the thick Mancos shale formation. Except for their silty clay loam texture in the surface layer, the soils are very similar to those of the Chipeta-Persayo shaly loam complex on 5 to 10 percent slopes.

The Persayo soil in this complex contains somewhat more silt and fine sand and is slightly more permeable than the Persayo soil in the complex of Chipeta and Persayo shaly loams, but it is nonetheless highly erodible if cropped. In fact, the platy, compact, impervious shale under both soils of this complex permits so much erosion that only a sharp or choppy surface remains.

Soil limitations are classified as severe for local roads and streets (high plasticity index, shrink-swell), shallow excavations (shallow to consolidated shale), dwellings with basements (shallow to shale, shrink-swell), sanitary land fill (shallow to consolidated shale), septic tank absorption fields (slowly permeable, shallow), and sewage lagoons (slope, shallow to impervious layer). May 4, 1978

Green Tree Inc. 2820 North Avenue Grand Junction, Colorado 81501

## Re: FILE #39-78 GREENWOOD ESTATES SUBDIVISION

Dear Sir:

The Grand Junction Planning Commission, at their regularly scheduled meeting of April 25, 1978, approved the preliminary plan for Greenwood Estates. Approval was subject to the following requirements:

- One fire hydrant required on 6" line at NW corner, Lot 4, Block 2.
- 2. Easements needed by Public Service
- 3. City Engineering, the Development Staff, and the Developer meet to discuss plans for curing the ills of the streets and intersection, and that the comments generated relate to development timing of the project.
- 4. No development to begin until intersection at 17th Street and Walnut is improved.

This item will be heard before the Grand Junction City Council at 7:30 p.m. in Council Chambers on May 17, 1978.

If you have any questions or comments, please contact this office.

Sincerely,

atky - Solar & fig ,

Kathy F. Lofink Planner I

KFL:cjr



City of Grand Junction. Colorado 81501 250 North Fifth St., 303 243-2633

24

August 18, 1978

Mr. Robert S. Coburn C and M Surveyors and Engineers Inc. 656 31 Road Grand Junction, Colorado 81501

Dear Bob:

a beaver

RE: Greenwood Estates Subdivision

As requested, I have reviewed the detailed construction plans for streets and storm drains for the above as submitted on July 26, 1978, and have the following comments:

- Pavement design calculations as submitted areacceptable and approved with the one change that we are designing Walnut Avenue with 3" HBP on 6" ABC (Class 6) which yields an SN of 2.16. We do this to permit two 1-1/2" lifts on HBP which we feel yields a better pavement finish.
- 2. Please add the streets centerline stationing to the plan view for clarification.
- 3. The catch basin at the southwest corner will not be necessary since Walnut Ave. will be constructed as part of ST-78 ID.
- 4. The 17 ft. dimension on No. 17th Street Typical Section should be to the pan line instead of the back of curb.
- 5. Delete the profile for Walnut Avenue or revise it in accordance with the enclosed calculation sheets.
- 6. The two calculation sheets enclosed reflect the horizontal and vertical geometric design for Walnut Avenue including intersections. The interface between ST -78 ID construction and Greenwood Estates construction is at 0+44 on 17th St. Please insure that your horizontal and vertical geometry at that location fits the enclosed calculations at 0+44. My check shows a possible 0.18 ft. disparity in elevation at 0+44. Minor adjustment is possible if needed to fit your planning. Please keep us advised if any change from the val**v**es shown on the enclosed calculation sheets is desired.

- Add the following note to the plan sheet: "All construction shall be in accordance with City of Grand Junction General Contract Conditions for Public Works construction GC-37, GC-50, and GC-65". Copies are enclosed for your use and files.
- 8. Grades look fine except it is suggested vertical curves at least 50 ft. long be provided at grade changes.
- 9. You should sign the P.E. stamp when the plans are complete.

When the above comments have been addressed, please send me one print for our file and consider the plans to be approved by this office for construction. If question or significant construction problems develop, please do not hesitate to call on us. Upon completion of construction notify us for a final inspection. Submission of test results as required by City specifications and cronar as-built drawings will also be necessary prior to City acceptance of the constructed facilities.

Thanks for your continued cooperation.

Very truly yours

Ronald P. Rish, P.E. City Engineer - Public Works

Enclosure

cc: Del Beaver John Kenney Don Newton Jim Patterson

LL. L5/11 2010. 5 Cligr,



la Musquor



City of Grand Junction. Colorado 81501 250 North Fifth St., 303 243-2633

1. Greenwood Estates has agreed to curb, gutter and 4 foot detached sidewalk on 17th Street on the frontage of the project and will improve base and create 22 feet of road surface from that gutter east and work it into the existing pavement.

2. The sum of \$5,565.00 will be given the City of Grand Junction as partial consideration.

3. On Walnut Avenue the developer will build the entire road for a distance west from the 17th and Walnut intersection to the back lot line of the parcel at the Southeast Corner of that intersection with full improvements (curb, gutter and 4 foot attached sidewalks according to City engineering specs.) The balance of Walnut Avenue frontage of the project will be under Power of Attorney for the full cost development of curb, gutter and 4 foot attached sidewalks and 17 feet of pavement complete to be assessed or paid for in full when installed. It is agreed the Greenwood Estates will enter an improvement district as soon as possible for this improvement of Walnut with their neighbors.

\$36**,**500

39-78



City of Grand Junction. Colorado 81501 250 North Fifth St., 303 243-2633 October 11, 1979

Mr. Robert Coburn C & M Surveyors & Engineers, Inc. 656 31 Road Clifton, CO 81520

Dear Bob:

city Sub. (Greenwood Estates Re:

The streets and storm drainage facilities constructed in the above subdivision were final-inspected on August 1, 1979, and September 10, 1979, and our recent reinspection showed that apparently all deficiencies noted in the inspections have been corrected. We have received the required construction test results and the as-built drawings which acknowledge the facilities have been constructed in accordance with the approved plans and specifications.

In light of the above, the streets and storm drainage facilities for Greenwood Estates are accepted by the City, and we are now responsible for maintenance of those facilities.

Thanks for your cooperation in these matters.

Very truly yours,

Ronald P. Rish, P.E. City Engineer

RPR/hm

cc – Doug Cline John Kenney Steve McKee Karl Metzner Jim Patterson

GREENINOOD Subdivision 39 3 # Date Item Petitioner ep NK WALNUT Ave NW CORNER Ź S7, Review Agencies Comments **Review** Agencies Comments ¥ reauron OR PANAA 'tike dran ot 4 Cirche GREENword M Bloc 1 see ath 's add'L easits mo sheet review An 5 Grand developers Painage Veed 111 20 α ARee 3 Flows and 180 S 78 \$5565 150 made to anmen curb, gutter Sidenalt REQUIREMEN 22 mat. Dat 7+h Street Construc F10/1 evsection gutters, and Curbs Hic Jali )tercect side M Ø 7+0 ( hould Street Imps pulation the P lz. 'st Petitioner Poff steel full work toward a 'shall TERESERE ERESERE CULLANT Action Taken Action Taken P.C. ADDROVAL 4125178 c.c. Tabled til JUN 7- 17 MM 8 P.C. C.C. Approved Prelim. as submitted, with negotiations on 17th Walnut Comments intersection to continue. 1 (Appr. Subj. to all state comments . 5 ITEMS REQUIRED FROM DEVELOPER 1020 Check in Title Investigation Utility Agreement 10 Landscaping Drainage Covenants Improvements Guarantee Annexation Other (Specify)

6 neenwood Cotas FINA Subdivisi 39. Date Item #\ Petition Review Agencies Comments Review Agencies Comments G.J. Drainage sting Through 15 1 cei  $\circ_t$ (DAA <u>USS 🛛</u> h 11 9 Show Tihe engineer. WITH 9 ON pla 3 MIN 9 aran 3 oa 2 a X , -\* 9 Ä inner -ter Π × E ۳ Action Taken Action Taken 18 Lune P.C. 1 9 ł C.C. Comments Comments 4 ٦ (which was agreed to) ITEMS REQUIRED FROM DEVELOPER Check Utility Agreement Title Investigation Drainage Landscaping Covenants Improvements Guarantee Other (Specify) Annexation .