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Name: <u>Wilson Ranch Townhomes – Filing 5 – 25 ¾ Rd / 1-70</u>

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	S c	A few items are denoted with an asterisk (*), which means they are to be scanned for permanent record on the ISYS
e	a	retrieval system. In some instances, items are found on the list but are not present in the scanned electronic development
s	n	file because they are already scanned elsewhere on the system. These scanned documents are denoted with (**) and will
e	n	be found on the ISYS query system in their designated categories.
n	e d	Documents specific to certain files, not found in the standard checklist materials, are listed at the bottom of the page.
t	u	Remaining items, (not selected for scanning), will be listed and marked present. This index can serve as a quick guide for
		the contents of each file.
_		
X	X	Table of Contents
		*Review Sheet Summary
X	Х	*Application form
		Review Sheets
		Receipts for fees paid for anything
	X	*Submittal checklist
X	X	*General project report
		Reduced copy of final plans or drawings
X		Reduction of assessor's map.
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X	X	Legal description
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		DOCUMENT DESCRIPTION:
		Correspondence
<u>x</u>		Predevelopment Stormwater Mgmt Map
	x	Composite Plan – 5/13/96
X		Commitment to Insure – 2/12/91
	X	Final Drainage Report – 5/15/96
x		Tax Notice

March 12, 1992

Dan Wilson, City Attorney Grand Junction Colorado

During earlier discussions on annexation of the balance of Wilson Ranch I promised a proposed development schedule. The attachment represents our current plans for phases of development in filings two and three. Needless to say, this schedule is contingent upon market conditions and may be advanced or delayed depending upon the availability of buyers.

-1

Fall of 1992-Spring 1993

Fall of 1993-Spring 1994 Mitteles as

Fall of 1994-Spring 1995

Fall of 1995-Spring 1996

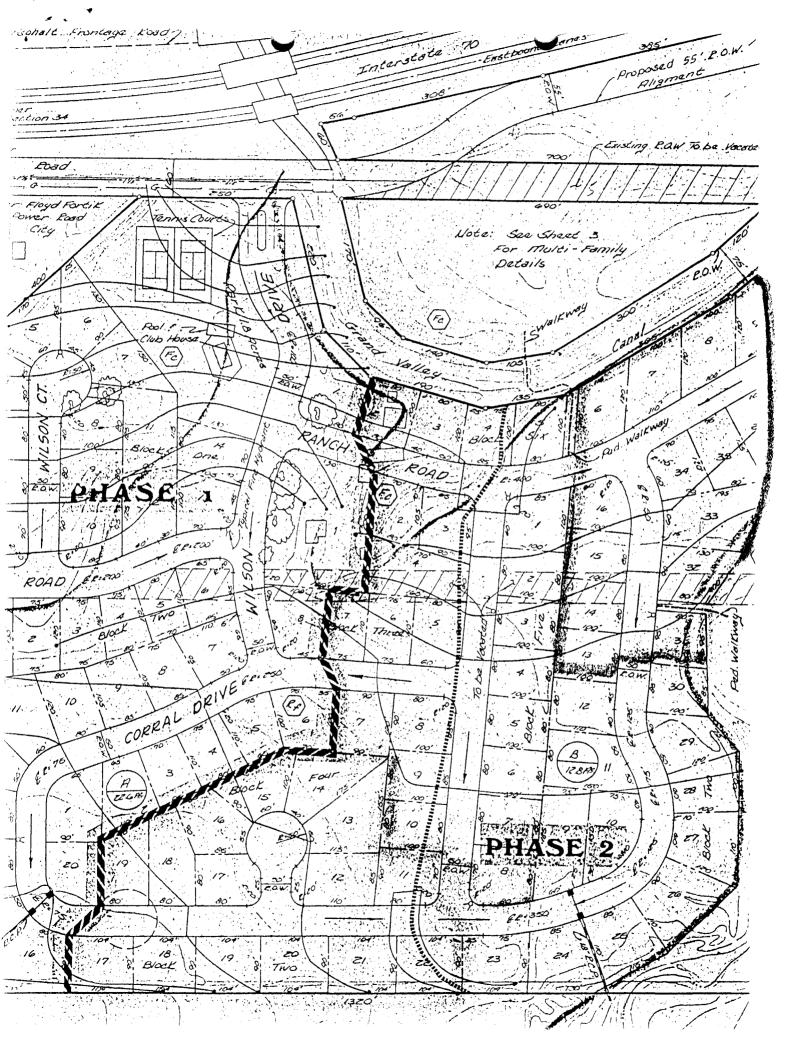
1997

Sincerely,

D. Garrison

President, GNT Development Corp.

WILSON RANCH • 25 1/2 & G 1/2 Roads





DEVELOPMENT APPLICATION Community Development Department

250 North 5th Street, Grand Junction, CO 81501 (303) 244-1430

Receipt	4089	
Date		
Rec'd By		

File No. <u>PP-96-130</u>

We, the undersigned, being the owners of property situated in Mesa County, State of Colorado, as described herein do hereby petition this:

PETITION	PHASE	SIZE	LOCATION		ZONE	LAND USE
Discription Subdivision Plat/Plan	☐ Minor ⊠ Major ☐ Resub	7.5 acus	I-70# 2534 ld	PR		lexidential
Rezone				From:	То:	
Planned Development	ODP Prelim Final					
Conditional Use						
Zone of Annex						
U Variance						
Special Use						
□ Vacation						□ Right-of Way □ Easement
Revocable Permit						

🖾 PROPERTY OWNER	🖾 DEVELOPER	[☑ REPRESENTATIVE
GATT DEVELOPMENT	SAME	WD GARRISON
Name	Name	Name
20 Box 308	305308	795 GARRISON CT
Address	Address	Address
Gre Jet (0 8150	2 81502	Gre Jet (0 8150/
City/State/Zip	City/State/Zip	City/State/Zip
243-5902	243-5902	241-5325
Business Phone No.	Business Phone No.	Business 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 will be dropped from the regenda, and an additional fee charged to cover rescheduling expenses before it can again be placed on the agenda.

0-95 Date Signature of Person Completing Application

ORP 7-3025 Signature of Property Owner(s) - attach additional sheets if necessary Date

UBMITTAL CHECKLIS

MAJOR SUBDIVISION: PRELIMINARY

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NOTES: * An asterisk in the item description column indicates that a form is supplied by the City.

Wilson Ranch Townhomes

Wilson Ranch was zoned as PR 4.4 by Mesa County Commissioners in January 1980. Subsequent approval was given to preliminary plans for 181 total units that would be divided into 105 single family units and 76 multi-family units. The original land parcel zoned was 41.27 acres.

Final plats have been approved for 94 single family homes. All single family detached homes are located south and west of the canal. The 7.5 acres north the canal was designed for the intended 76 townhomes and condominiums. This area is currently in two tax parcels divided by G1/2 Road.

As the current plan is a deviation from the originally approved 76 units I am providing this revised preliminary plan for administrative review. Information submitted is greater than that normally included in a preliminary plan in order that all comments and considerations can be taken into account and the final plat reflect all needed changes.

The earlier plan did not provide an area for canal maintenance. Twenty-five feet from waters edge is required for this purpose. This reduction in area plus design changes from "stacked flats"--condos-has resulted in a density reduction from the planned 76 units to 61. These units are one and two story townhomes varying in size from approximately 1000 square feet to 1400 square feet. Parking is provided by 81 parking places and 38 garages.

All utilities are available to the project. Sewer was brought under the canal with an approved sewer design during March of 1996, Ute water is available in G1/2 Road at the intersection with Wilson Drive. Telephone, electrical and cable TV are available from the

1

existing Wilson Ranch improvements. Irrigation water is available from the Grand Valley Irrigation Company. A new headgate has been discussed and agreed to by both the developer and canal company. Irrigation will be pressurized.

*

To accomplish this development it is necessary to realign G1/2 Road to the area immediately south of I-70. A design for G1/2 Road has been reviewed by City Engineering and is included in this submittal. Curb only is provided on the I-70 side and curb, gutter with detached five foot sidewalk are provide on the south. Curb and sidewalk are separated by a ten foot landscape strip to buffer the development from traffic and highway noise. This new alignment will eliminate the sharp and dangerous curve currently in G1/2 Road.

The present G1/2 right-of-way will be vacated and a new one dedicated to the city. I am requesting that the construction of this 1000 plus feet of new road be in lieu of traffic capacity fees for the project.

The interior road is proposed as "private." This designation is requested to eliminate problems concerning street set-backs and maintenance difficulties occasioned by on street 90 degree parking. While the design is more narrow than city standards, it will in all other ways be constructed to city standards. It provides curb, gutter and sidewalks throughout. Storm water management and drainage are provided through the street and a conduit emptying into Leach Creek. A pavement maintenance fund is planned designating a portion of purchase price be set aside for this purpose. This will also assist the city by providing this function from non-city revenues and ensuring that in the future it will not be made a city responsibility.

Landscape planned for the development is extensive. We wish a well-designed, green and attractive development. A contract for landscape maintenance is planned.

2

The development is planned to complement the existing Wilson Ranch development. It is planned for neither the top nor the bottom of the townhouse market. We intend to offer home owning opportunities to those who either have no desire for yard maintenance responsibilities or who have difficulty affording the amenities of large lots, attached garages and larger homes. It is intended to create reasonable price housing at below the cost of single family detached homes in this area. A tight development of attractive units with smaller square footage will make this possible. To maintain the quality of the area we will be using attractive elevations, a variety of materials for exteriors and strong design and color control through a home owner's association and architectural review board.

f.

As a part of the 7.5 acre site is a 1 acre (approximate) parcel north and east of the re-aligned G1/2 Road. The parcel borders Leach Creek immediately beyond Bookcliff Gardens Nursery. The Nursery has expressed interest in acquiring the area for nursery use. I would like this parcel described and platted as a separate lot which I can convey to Bookcliff Gardens. They have offered to exchange landscape materials for this area. The arrangement would be mutually beneficial to all. It will assist the nursery, the developer and will preserve green, open space. Without such an arrangement it will likely remain open but will be a nuisance area, unattractive and serve no useful purpose.

3



April 18, 1995

City of Grand Junction City Engineer and Community Development

During previous discussions I advised that Wilson Ranch has a planned multi-family area of approximately seven acres with a total density of 76 units. The area designated for these units consists of two approximate 3 1/2 acre parcels, one on the north of G 1/2 Road and one on the south of the road. Development of these parcels was conditioned upon moving G 1/2 Road next to the I-70 ROW and straightening it. I would like to proceed with this prior to obtaining design approval for the 76 units.

In earlier discussions I was advised that a 56' ROW with a 36' mat would meet the necessary road design. I have asked that curb and gutter be waived with landscaping used in its place. Drainage would be captured in a river rock swale on either side of the road. Native grasses would be planted and trees provided for the north side and trees and shrubs for the south side. Additionally a four foot sidewalk would be provided on the south. Drawings of this plan are provided.

Part of the reason for the request is to extend the same landscape appearance which Bookcliff Gardens has used for the area bordering G 1/2 and 26 1/2. It is their intention to continue their design to the west end of their property. The landscape proposed for G1/2 would provide continuity and a more attractive roadscape than alternatives. It will also help to buffer the multi-family area from both G 1/2 and I-70.

I have had the area surveyed and a preliminary road plan drawn. I notice that the dimensions of this plan do not match my sketch proposal. I would like to work out design differences and obtain preliminary approval of the concept before having them re-drawn.

I would appreciate your consideration and welcome the opportunity to meet and further explain or clarify any of the above.

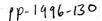
Sincerely,

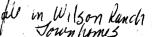
W. D. Garrison

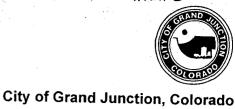
W. D. Garrison President GNT Development Corp.

WILSON RANCH • 25 1/2 & G 1/2 Roads

GNT DEVELOPMENT CORP. • Developers of Wilson Ranch and other fine properties P.O. Box 308 • Grand Junction, CO 81502 • Office: (303) 845-1434 243~5902







81501-2668

250 North 5th Street

Phone (970) 244-1501 FAX (970) 244-1456

April 28, 1997

W. D. Garrison Wilson Ranch P.O. Box 308 Grand Junction, CO 81502

Re: Your letter of April 15, 1997

Dear Dan,

I spoke with Kathy Portner concerning your April 15, 1997 letter. Given the significant public input and process which occurred concerning the proposed townhouse development, we are wondering if it makes sense to extend the term of the annexation agreement to file a final plat on the Wilson Ranch multifamily portion.

FRICELLES CRAMP FURCTION

It may be that enough time has elapsed since the annexation agreement was signed to best serve the public with a "let's start over" process.

Of course, your background would lead you to the immediate conclusion that I am not the final arbiter of such questions: the City Council is. If you would like, please let me know and I can ask the Mayor to schedule this matter for discussion by the City Council at a convenient time.

Very Truly,

Dan E. Wilson

City Attorney

dan/wilsonex.doc 04/28/97 10:46 AM

cc: M. Achen K. Portner City Council File



6 1997

concerns about annon witten

April 15, 1997

Dan Wilson, City Attorney Grand Junction City 250 N. 5th Street Grand Junction, CO 81501

Dear Dan,

Last October we spoke about the period of time allowed by the Annexation Agreement for filing a final plat on the Wilson Ranch multi-family portion. I requested that the period be extended to 12-31-99. This request was based upon my difficulty in obtaining approval for the final plat. Also included in the discussion were the annexation provisions allowing a preliminary plan approval on an administrative basis and my desire to use these same provisions in future submissions.

You concurred with my requests and I confirmed our discussion with a letter to you on October 31, 1996. No formal response was ever received.

Noting recent changes in City Council I am anxious to preserve this agreement. What do you suggest?

I currently have the property on the market but if a buyer fails to surface I will plan on a new submittal during 1998.

Thanks for your assistance.

Sincerly,

W. D. Garrison, President GNT Development Corp.

WILSON RANCH • $25^{1}/_{2}$ & $G^{1}/_{2}$ Roads

REVIEW COMMENTS

Page 1 of 4

FILE #PP-96-130

TITLE HEADING: Wilson Ranch Townhomes (Filing #5 of Wilson Ranch)

LOCATION: I-70 & 25 3/4 Road

PETITIONER: GNT Development

PETITIONER'S ADDRESS/TELEPHONE:

P.O. Box 308 Grand Junction, CO 81502 243-5902

PETITIONER'S REPRESENTATIVE:

Dan Garrison

STAFF REPRESENTATIVE:

Kathy Portner

NOTE: THE PETITIONER IS REQUIRED TO SUBMIT FOUR (4) COPIES OF WRITTEN RESPONSE AND REVISED DRAWINGS ADDRESSING ALL REVIEW COMMENTS.

CITY COMMUNITY DEVELOPMENT	6/14/96
Dave Thornton	244-1450

GENERAL COMMENTS:

- 1. The 119 parking spaces as proposed meets the parking requirement for multi-family development.
- 2. Please submit a detailed landscaping plan at final plat.
- 3. The procedure for final approval for the private street into the development is not certain. Please contact Kathy Portner at 244-1446 regarding this.
- 4. We would like to see as many of the existing trees as possible be retained. Please show on the landscaping plan the location of all existing trees.

CITY DEVELOPMENT ENGINEER	6/14/96
Jody Kliska	244-1591

1. Similar projects which have discharged directly into Leach Creek have been assessed a drainage fee. The calculated fee based on the information provided in the drainage study is \$13,711.25.

- 2. Please submit the pavement design with the final plans.
- 3. Indicate the storm drain crossing on the sewer profiles.
- 4. The centerline profile for G ¹/₂ Road shows a grade of .13%. The SWMM manual calls for a minimum .5% grade. Is it possible to increase the slope?
- 5. The request for TCP credit needs to be done in a letter to Community Development detailing the costs of the improvements.

CITY	Y UTILITY ENGINEER	6/14/96
<u>Tren</u>	t Prall	244-1590
1	PLEASE NOTE: 1996 City of Grand Junction	Standard Specifications shall apply for this proposed

- 1. PLEASE NOTE: 1996 City of Grand Junction Standard Specifications shall apply for this proposed development. Copies are available for \$10 in the Public Works and Utilities office.
- 2. As of 6/14/96, the sewer under the canal is still not accepted due to easements not being finalized. Please submit finalized easements as soon as possible.

PP-96-130 / REVIEW COMMENTS / page 2 of 4

- 3. Water: Ute. Please provide a sign off block for Ute on all water related plans.
- 4. If sewers are to be publicly maintained, ensure plat reflects 20' minimum easements accommodating installation, repair, maintenance and replacement of sewers.
- 5. Alignments and grades appear adequate. More comments on final submittal.
- 6. Please add the following notes for the final submittal.
 - A. Contractor shall have one signed copy of plans and a copy of the City of Grand Junction's Standard Specifications at the job site at all times.
 - B. All sewer mains shall be PVC SDR 35 (ASTM 3034) unless otherwise noted.
 - C. All sewer mains shall be laid to grade utilizing a pipe laser.
 - D. All service line connections to the new main shall be accomplished with full body wyes or tees. Tapping saddles will not be allowed.
 - E. No 4" services shall be connected directly into manholes.
 - F. The contractor shall notify the City inspection 48 hours prior to commencement of construction.
 - G. The Contractor is responsible for all required sewer line testing to be completed in the presence of the City Inspector. Pressure testing will be performed after all compaction of street subgrade and prior to street paving. Final lamping will also be accomplished after paving is completed. These tests shall be the basis of acceptance of the sewer line extension.
 - paving is completed. These tests shall be the basis of acceptance of the sewer line extension.
 - H. The Contractor shall obtain City of Grand Junction Street Cut Permit for all work within existing City road right-of-way prior to construction.
 - I. A clay cut-off wall shall be placed 10 feet upstream from all new manholes unless otherwise noted. The cut-off wall shall extend from 6 inches below to 6 inches above granular backfill material and shall be 2 feet wide. If native material is not suitable, the contractor shall import material approved by the engineer.
 - J. Sewer stub outs shall be capped and plugged east of property line. Stub out shall be identified with a steel fence post buried 1' below finished grade. As-built surveying of stub out required PRIOR to backfill.
 - K. Benchmark _____

CITY FIRE DEPARTMENT	6/12/96
Hank Masterson	244-1414
1 The proposed fire line extension exceeds 1 000 fee	t in length and estimated fire flows are less than

- 1. The proposed fire line extension exceeds 1,000 feet in length and estimated fire flows are less than 1000 gallons per minute. Required fire flows for the townhomes will exceed 1000 gpm. To reduce required fire flows, petitioner will be required to install NFPA 13D fire sprinkler systems in all townhomes.
- 2. The cost of the 13D systems must be included in an Improvements Agreement. Estimated cost of these sprinkler systems is \$1.50 per square foot of floor space.
- 3. Along with the fire sprinkler systems, the fire line sizes and hydrant locations will be adequate as shown.

CITY POLICE DEPARTMENT	6/12/96
Dave Stassen	244-3587

1. Are the parking garages true garages (enclosed on all sides) or are they covered "carports"? If they are just covered ports, I would STRONGLY suggest not covering them with the set-up as is, the covered parts COULD have a significant problem with thefts from auto. My recommendation would be to do away with the covers and place pedestrian level lights throughout all parking area . so that there are no dark areas in the parking lots.

PP-96-130 / REVIEW COMMENTS / page 3 of 4

2. If only fencing is to be used, it should be transparent in nature.

MESA COUNTY SCHOOL DIST	RICT #51	6/11/96 242-8500									
SCHOOL - CURRENT ENROLLM	IENT / CAPACIT	Y - IMPACT									
Appleton Elementary - 277 / 250 -	40										
West Middle School - 531 / 500 -	20										
Grand Junction High School - 1674	/ 1630 - 26										
U.S. WEST		6/4/96									
Max Ward		244-4721									
For timely telephone service, as soon a please	s you have a plat.	and power drawing for your housing development,									
MAIL COPY TO:	AND	CALL THE TOLL FREE NUMBER FOR:									
U.S. West Communications		Developer Contact Group									
Developer Contact Group		1-800-526-3557									
P.O. Box 1720											
Denver, CO 80201											

We need to hear from you at least 60 days prior to trenching.

PUBLIC SERVICE COMPANY	6/12/96
Jon Price	244-2693
1 Source or water lines cannot be installed in same tr	anch as natural ass. 3 fact harizantal senaration

1. Sewer or water lines cannot be installed in same trench as natural gas - 3 feet horizontal separation.

2. Gas service tap will not be installed under asphalt or concrete.

3. Easements? I suggest a "blanket easement".

U.S. POSTAL SERVICE	6/4/96
Mary Barnett	244-3434

The Postal Service recommends central delivery and will provide the developer with equipment.

UTE WATER	6/7/96
Gary Mathews	242-7491

1. The proposed 8" line in G ¹/₂ Road needs extended further to the east to the end of property and an 8" inline valve installed.

- 2. Two inline valves are needed on the canal crossing. One on each side of the canal. Contact with Ute Water is needed to discuss number, cost and location of water meters.
- 3. Water mains shall be c-900, class 150. Installation of pipe fittings, valves and services including testing and disinfection shall be in accordance with Ute Water standard specifications and drawings.
- 4. Developer will install meter pits and yokes. Ute will furnish pits and yokes.
- 5. Construction plans required 48 hours before development begins.
- 6. Policies and fees in effect at the time of application will apply.

GRAND VALLEY RURAL POWER	6/5/96
Perry Rupp	242-0040

Please note utility easements for power lines.

PP-96-130 / REVIEW COMMENTS / page 4 of 4

GRAND VALLEY WATER USERS

Richard Proctor

Grand Valley Water Users' Association has no project facilities located within this proposed area. We offer no other comments.

GRAND VALLEY IRRIGATION	6/13/96
Phil Bertrand	242-2762

This subdivision abuts our canal and canal right-of-way. A 25 foot from water edge canal right-of-way must not be encroached upon. The plat must show and state this 25 Grand Valley Irrigation Company canal right-of-way. Must state and clarify single point of delivery for irrigation water. A discharge agreement must be signed if discharge water is to enter the canal.

TO DATE, COMMENTS NOT RECEIVED FROM:

City Parks & Recreation City Attorney 6/14/96 242-5065



August 4, 1995

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Katherine M. Portner Planning Supervisor Cummunity Development City of Grand Junction

Dear Ms. Portner:

Perhaps you will recall when I came in for the "pre-app" meeting there was some confusion on both of our parts as to "where do I start on this multi-family portion of Wilson Ranch?" This stemmed from having a preliminary plan which had been approved by the County but wishing to make some changes to it before proceeding to a final with full blown engineering and design. Ι wished to change the number of physical units (not density), allocation between condo's and townhomes, some changes in parking and create a lot for tree storage which I could convey to a nursery. You believed that with these changes we best go to preliminary. I had the idea that this was a design type preliminary and not a full blown land use, major subdivision preliminary. I supplied only design criteria on the portion with units. I should have sought additional clarification-which I did I should have also assisted you in pursuing the terms and not. provisions of my Annexation Agreement-which I did not do.

I am writing now and will meet with you in an attempt to clarify these issues.

Applicable provisions of the Annexation Agreement, attached, are mainly in item 11.

"11. Except as provided for in paragraph 12, below, the City shall propose for its adoption the preliminary and final plats and plans for Wilson Ranch Filing Number 1, Phases I, II, and III, Filing Number 2, and Filing Number 3, as presently approved by Mesa County, for development of the property.

WILSON RANCH • 25 1/2 & G 1/2 Roads

241-5325

On and after the date that a petition to Annex has been found to be valid, pursuant to 31-12-107, C.R.S., any changes or amendments to a plat or plan affecting the Property subject to a Petition to annex shall be allowed by City only if they do not affect the general character of any plat or planned development concerning the Property and such changes or amendments are minor in nature and are the result of faulty engineering and technical data or unforeseen engineering problems. Such changes or amendments, as necessary, shall be subject to City's reasonable approval, which will not be unreasonably withheld. Any changes not meeting the above criteria shall allow the City to fully exercise it land use jurisdiction pursuant to 31-12-115, C.R.S., in reviewing the entirety of the remaining development of the Property."

As background for this provision:

January 10, 1980, Mesa County Commissioners approved zoning for Wilson Ranch as PR 4.4 with an outline development plan calling for 105 single family lots and 75 Multi-family units.

April 17, 1980, Mesa County Planning Commission approved a Preliminary Plan for Wilson Ranch which included 76 multi-family units and 105 single family units. At that time the hearing considered all (at that time) appropriate land use items and a preliminary drainage report and maps were provided for the entire property.

I am enclosing copies of the maps and drawings used in this process. The narrative Drainage Report is in the County file which was transferred to the City at time of annexation.

On April 30, 1980 Mesa County Commissioners adopted the Preliminary plans recommended to them by the Planning Commission.

In 1983 the County approved a final plan for Filing 1, Phases I, II, and III. These plans were not used until I purchased Wilson Ranch in 1991. At that time the "Final" was re-activated and I built Filing 1 in three phases. Filing 2, as intended by the original developers, was to include the balance of single family homes. Filing 3 was to include thy multi-family portion. I divided their Filing 2 into three parts which are now known as Filings 2, 3, and 4.

I believe that based upon having an approved Preliminary Plan from the County and having it specifically included in my Annexation Agreement its approved status is preserved. Paragraph one of 11. providing "...City shall propose for its adoption the preliminary and final plats and plans for Wilson Ranch..."

The main question at this point seems to be, are the changes requested "minor in nature" and do they "affect the general

character" of the planned development? If they are minor and do not affect the general character, I believe administrative approval is possible which would allow me to go directly to final. I believe that changing from condo's and townhouses to only townhouses, a re-layout of the units with parking and garages is minor, certainly not affecting the general character of the development. In requesting the lot for tree storage for the nursery I am preserving the open space and making it more attractive and useful than would occur otherwise. Again, not changing the general character of the development. I have also dropped the density, changing from 76 units to 67. The general character remains the same and the change, I believe, minor.

After you have an opportunity to review this matter I would like to meet with you again to determine:

- 1. Will you provide administrative approval?
- 2. If not, should I proceed with a revised preliminary?
- 3. If I do, what added materials will be needed?
- 4. If I choose to retain the approved Preliminary plan which I brought with annexation, what changes would be allowed with administrative approval?

Sincerely,

W. D. Garrison President, GNT Development Corp.



Grand Junction Community Development Department Planning • Zoning • Code Enforcement 250 North Fifth Street Grand Junction, Colorado 81501-2668 (970) 244-1430 FAX (970) 244-1599

August 2, 1995

WD Garrison 795 Garrison Ct. Grand Junction, CO 81506

RE: Wilson Ranch, Filing #5

Dear Mr. Garrison:

We have reviewed your submittal for Preliminary Plan review for Wilson Ranch, Filing #5 and find it to be incomplete. A Preliminary Drainage Report was not submitted and the Preliminary Plan was found to be incomplete. I have circled the items that were not included on the Preliminary Plan on the attached Drawing Standards Checklist from the City's Submittal Standards for Improvements and Development Manual. I have also included a copy of the Report Checklist and Outline for the Preliminary Drainage Report.

Section 6-7-1.A of the Zoning and Development Code states that "no submittal shall be accepted unless it is complete". With the large number of submittals we received and the relatively short review time we cannot review incomplete submittals nor allow extensions to the submittal deadline. Therefore, your submittal cannot be reviewed and processed for the September Planning Commission hearing. A complete submittal must be received by September 1, 1995 at 5:00 p.m. for this development proposal to be scheduled for the October Planning Commission hearing. You can pick up the packets and your check at the Community Development Department anytime.

If you have any questions please feel free to call me at 244-1446.

Sincerely,

atur M. Portm

Katherine M. Portner Planning Supervisor

Aqued the Prel. Plan is admin. Review but Same submitted requirements.

1771				-
	EM	culled items are missing GRAPHIC STANDARDS	ОК	
	Α	Scale: 1" = 20', 30', 40', or 50'		
	В	Drawing size: 24" x 36"	ļ	Ļ
		There are no primary features on this drawing		┢
		Notation: All non-construction text Line weights of existing and proposed features per City standards		╀
6	G	Horizontal control: Subdivisions tied to Section aliquot corners		┢
	H	Vertical control: Benchmarks on U.S.G.S. datum if public facilities other than SW are proposed	1	t
	I	Orientation and north arrow		T
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Ιξ.	N N	List of abbreviations used	┨────	╀
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6			RE-D
[[REPORT CHECKLIST AND OUTL	,	
	PRELIMINARY DRAINAGE REPORT	_Not 3	u brug
·	CHECKLIST	OK	N/
Ty	ped text		
	2 x 11" format		
	und: Use bar or spiral binder or staple. Do not use a notebook.		
	le Page: Name of report`and preparer, date of preparation and revision (if any) hibits: Maximum 11" high and 32" wide, bound in report and folded as required to 8½ x 11" size		
	aps attached to or contained in the report:		·
	Vicinity Map and Preliminary Major Basin Drainage Map		
	OUTLINE		
I.	GENERAL LOCATION AND DESCRIPTION		
	 A. Site and Major Basin Location 1. Streets in the vicinity 		
	2. Development in the vicinity		
	B. Site and Major Basin Description 1. Acreage		
	2. Ground cover types		
	3. Hydrologic soil types		
II.	EXISTING DRAINAGE CONDITIONS		
	 Major Basin General topography, drainage patterns and features, canals, ditches, wetlands 		
	2. Previously determined 100-year floodplains		
	B. Site		
	 Historic drainage patterns Inflow characteristics from upstream 		
	3. Discharge characteristics to downstream sub-basins		
111.	PROPOSED DRAINAGE CONDITIONS A. Changes in Drainage Patterns		
	1. Major basin		
	2. Site		
	B. Maintenance Issues 1. Access		
	2. Ownership and responsibility		
IV.	DESIGN CRITERIA & APPROACH		
	 A. General Considerations 1. Previous drainages studies performed for the area 		
	2. Master planning issues (large scale considerations)		
	3. Constraints imposed by site and other proposed development		
	 B. Hydrology 1. Design storms and precipitation 		
	2. Runoff calculation method		
	 Detention/retention basin design method Parameter selection procedures 		
	5. Analysis and design procedures		
	6. Justification of proposed methods not presented or referenced in SWMM		
	B. Hydraulics 1. Hydraulic calculation methods		
	2. Parameter selection procedures		
	3. Analysis and design procedures		
	4. Justification of proposed methods not presented or referenced in SWMM		
	COMMENTS		
1.	No calculations are required for the Preliminary Drainage Report.		
2.	It may not be necessary to cover all of the above topics, but the report should address all concerns applicable proposed project, even issues not identified above.	to the	



February 7, 1996

Mr. Dan Garrison GNT Development P.O. Box 308 Grand Junction, CO 81502 City of Grand Junction, Colorado 250 North Fifth Street 81501-2668 FAX: (970)244-1599

RE: G 1/2 Road - Wilson Ranch Townhomes

Dear Mr. Garrison:

Public Works staff has reviewed your proposed roadway cross-section for G 1/2 Road in conjunction with the development of the Wilson Ranch Townhomes and offer the following comments.

RECEIVED GRAND JUNCTION PLANNING DEDADMIENT

As proposed, the cross-section does not conform with current City standards. Section 5-4-1(E) requires "streets, sidewalks, trails and bike paths shall be constructed in accordance with applicable City of Grand Junction standards." Any variation from city standards must be approved by City Council. Variances to section 5-4 of the code are covered in section 5-4-16 and require recommendation by Planning Commission to the City Council. There is a \$50 advertising fee along with a submission in writing of the request for variance and ten copies of the proposed cross-section. You may contact Kathy Portner in Community Development for submission dates.

Staff recommendation for pavement width is 36', which is the standard residential collector section. Any proposal for a narrower pavement must also be supported by evidence of existing, proposed and future traffic projections. The 36' wide pavement allows us to stripe bike lanes and provides adequate room for turning vehicles at intersections.

Public Works staff supports the concept of omitting sidewalk on the north side of G 1/2 Road adjacent to the I-70 right of way, and supports the detached walk on the south side.

City standards require curb and gutter. The curb serves as a barrier as well as delineation of the roadway edge. The flat gutter proposed does not prohibit vehicles from leaving the pavement edge and allows dirt, mud and debris onto the pavement. With the flat gutter, additional shoulder maintenance is required assure there are no drop-offs than is required with a standard curb.

The proposed 10 foot landscaped strip between the pavement and the detached walk is aesthetically pleasing and desirable. However, we have some concerns about the design and maintenance of this area. Based on his experience, the City Streets Superintendent has indicated the depressed area will become filled in with roadway debris such as dirt, rocks, and mud and the flowline will become dificult to maintain as the landscaping matures. This will cause

future drainage maintenance problems. Constructing curb and gutter will eliminate the buildup of debris in the landscaping and the need to try to maintain a flowline through the center of the landscaping. Staff recommendation is standard curb and gutter with landscaping slightly above the top of curb grade.

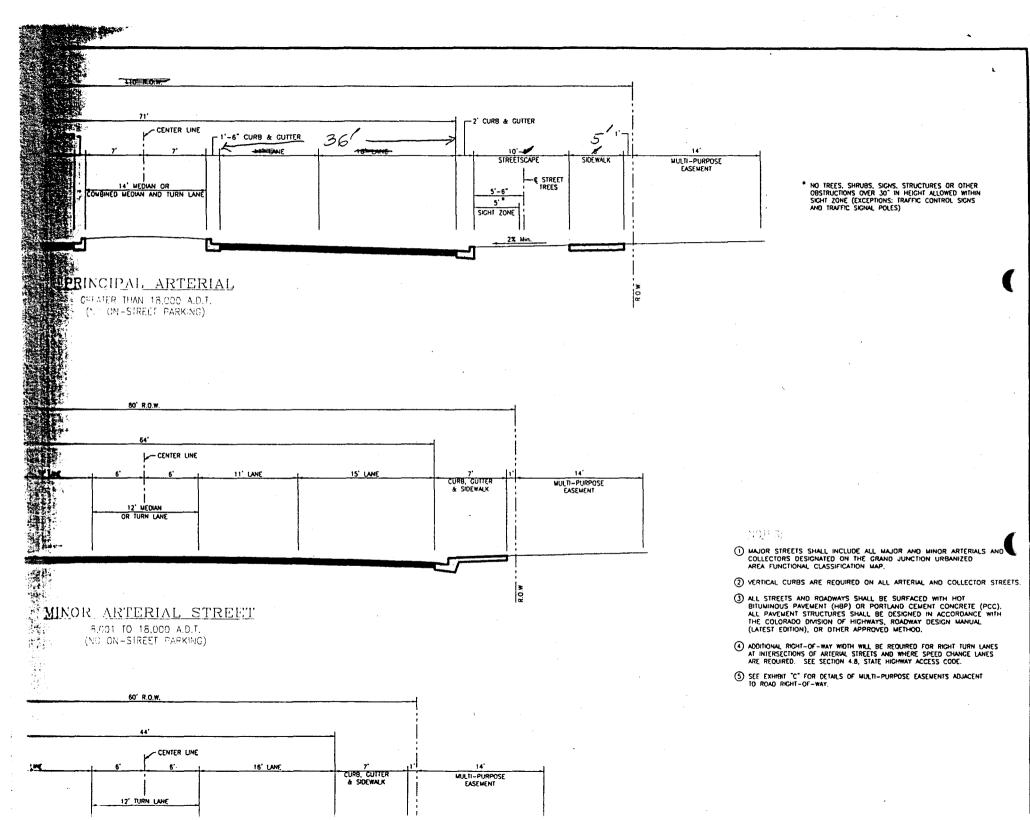
An acceptable alternative street section which would not require council approval is attached for your information. Basically, it is a modification of one half of the principal arterial street section with 36' of pavement width, curb and gutter and a detached walk.

Please call me if you have any questions at 244-1591.

Sincerely,

J6dy Kliska, P.E. City Development Engineer

cc: Mark Relph Don Newton / Kathy Portner Nichols & Associates





FINAL DRAINAGE REPORT

WILSON RANCH TOWNHOMES

Grand Junction, CO

Prepared for:

GNT Development Grand Junction, CO

Prepared by: Mike Foutz

May 15, 1996

P.O. BOX 60010 751 HORIZON CT S U I T E 1 0 2 GRAND JUNCTION COLORADO 81506 T E L E P H O N E 970-245-7101 F A C S I M I L E 970-245-3251 **Certification Sheet**

May 15, 1996

Development Staff City of Grand Junction, Colorado

Ladies and Gentlemen:

I certify that this Final Drainage Report for the Wilson Ranch Townhomes was prepared under my direct supervision.

Ter Nichels. State of Colorado, Number 12093

Registered Professional Engineer

Nichols Associates, Inc.

Final Drainage Report

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WILSON RANCH TOWNHOMES Grand Junction, CO

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Nichols Associates, Inc.

I. GENERAL LOCATION AND DESCRIPTION

A. Site and Major Basin Location

Wilson Ranch Townhomes is a proposed development in the East Half of section 43, Township 1 North, Range 1 West, Ute Meridian. The development received preliminary approval by Mesa County in 1982 under the jurisdiction of the county land development process and was later annexed by the City of Grand Junction. The subdivision is approximately three miles north of downtown Grand Junction. The property is west of 26 Road, between Interstate 70 and the Grand Valley Canal and is crossed by G 1/2 Road. Other developments in the vicinity included the Wilson Ranch Subdivision on the south.

Because the Site is bounded by Interstate 70 and the Grand Valley Canal, it is separated from a larger "major basin" and does not have offsite inflow. For the purposes of this report the general area surrounding the site will be considered the major basin.

B. Site and Major Basin Description

The property has a total area of 7.67 acres. Existing vegetation consists of approximately 70% cover of native grasses and forbes. Soils on the property consist of a very deep, well drained group classified as Fruita Clay Loam, hydrologic soil classification B. Well drained soils are prevalent in the general area. Much of the area has been or is under cultivation. Runoff is generally routed to Leach Creek, which passes just east of the property. Leach Creek is approximately 15 feet deep with widths varying from 30 to 50 feet. The banks vary from steep to vertical.

II. EXISTING DRAINAGE CONDITIONS

A. Major Basin

The topography of the general area is a series of rolling hills sloping to the south and southwest. Within the developed portions of the general area, stormwater is diverted to drainage ditches and then typically routed to Leach Creek. Irrigated land north of I-70 drains to collection ditches and returns to the Grand Valley Canal (GVC). Leach Creek's 100 year floodplain is considered to be contained within its banks by the National Flood Insurance Program.

B. Site

Topography of the site is defined by a knoll in the center with the surrounding land sloping away from the knoll. The site is bounded on the north by I-70 and on the south by the GVC. Because of these features the only offsite flow onto the site is an irrigation tailwater collection ditch. This collection ditch crosses the site at its narrowest point approximately 250 feet west of Leach Creek and discharges into the GVC. The site lacks well defined collection and discharge features. The lack of defined drainage pathways allow depression storage and infiltration. There are two areas on the site where runoff ponds until there is enough runoff to overtop the depressions and discharge to the GVC. The majority of the site (approximately 7.2 acres) discharges runoff not captured by depression storage into the Grand Valley Canal (GVC). Approximately .5 acres of the site discharges directly into Leach Creek.

The site lies within areas zoned B and C by the National Flood Insurance Program. Though the Flood Insurance Rate Maps (FIRMS) do not necessarily identify all areas subject to flooding, no local features have been identified to suggest that the FIRM is incorrect.

III. PROPOSED DRAINAGE CONDITIONS

A. Changes in Drainage Patterns

Site development will not effect drainage patterns in the surrounding area. The existing irrigation tailwater discharge will be maintained with an open ditch and a culvert. The flow will continue to discharge to the GVC.

Currently approximately 94% of the site drains into the GVC. After development approximately 35% of the site will continue to drain into the GVC. Drainage from the remainder of the site will be routed to Leach Creek.

B. Maintenance Issues

The drainage system will be located within dedicated easements to insure access to all parts of the system. The system will be comprised of curb and gutter, grass channel, and storm drain pipe. Required maintenance will be minimal. A homeowners association will be formed to accept responsibility for maintenance of the drainage system.

Nichols Associates, Inc.

IV. DESIGN CRITERIA AND APPROACH

A. General Considerations

Previous drainage studies in the vicinity include a study of Wilson Ranch Subdivision, Filings One, Two, and Three for the City of Grand Junction. The Wilson Ranch Subdivision discharges all runoff to Leach Creek without detention. Because the Wilson Ranch Townhomes site is isolated by the GVC and I-70, development will have minimal affect on adjacent properties. Discharge to the GVC will be maintained at near historic levels by routing runoff from much of the area into Leach Creek.

B. Hydrology

Design storm durations conform with Table VI-2 of the City of Grand Junction Storm Water Management Manual (SWMM). Rainfall intensity information was obtained from the SWMM without adjustment for basin area. Runoff calculations were performed using the Rational Method:

Q = CiA

Where:

Q = Runoff Rate, cfs

C = Runoff coefficient

i = Intensity, inches/hour

A = Area in acres

C. Hydraulics

Hydraulics calculations and methods followed those recommended in the SWMM. Mannings Equation was used for pipes and the Modified Mannings Equation was used to determine flows in gutters. Mannings roughness coefficients were selected from the book *Modern Sewer Design* or provided by manufacturers. Headloss coefficient were selected from the book *Hydraulic Engineering*.

Nichols Associates, Inc.

V. RESULTS AND CONCLUSIONS

A. Existing and Proposed Runoff Rates (2 and 100 year storm events.)

Runoff Rates								
	2 Year							
Discharge Point	Historic	Developed	Historic	Developed				
Grand Valley Canal	1.9 2.9		6.1	8.0				
Leach Creek	0.1	0.1 3.1		8.6				
Total Site	2.0	6.0	6.6	16.6				

B. Overall Compliance

The design of the proposed drainage system conforms to the requirements of the Grand Junction Stormwater Management Manual. The methods used to analyze stormwater quantities, rates, and volumes have been used in accordance with the policies in Sections I through V of the SWMM. Criteria for design methods were followed as outlined in Tables I-1, and I-2 of the SWMM.

VI. REFERENCES

United States Department of Agriculture, Soil Conservation Service. Unpublished Soil Survey for Mesa County Colorado.

Colorado Water Conservation Board, Floodplain Information Index.

United States Federal Emergency Management Agency, National Flood Insurance Program, 1992 (July). Flood Insurance Rate Map.

County of Mesa, Colorado, 1992 (April). Mesa County Storm Drainage Criteria Manual

City of Grand Junction, Colorado. 1994 (June). Stormwater Management Manual.

Bras, Rafael L., 1990. Hydrology. Addison-Wesley Publishing Company, Inc., U.S.A.

American Public Works Association, 1981. Special Report No. 49, Urban Stormwater Management.

Nichols Associates, Inc.

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VII. APPENDICES

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Nichols Associates, Inc.



ASSOCIATES, INC.

751 Horizon Court - Suite 102 Grand Junction, Colorado 81506

Wilson Ranch Townhomes

CALCULATION OF DISCHARGE DUE TO PROPOSED DEVELOPMENT

fter Cons	struction {Area - li	ntensity -	Discharge}											
BASIN	AREA SURFACE		RUNOFF COEF.	RUNOFF COEF.	REACH	LENGTH	SLOPE (S)		2Yr TIME	100-Yr TIME		NSITY s/Hour		HARGE Q=CiA)
	TYPE	Ac.	C2	C100	NEX611	ft	%	fps	MIN.	MIN.	2Yr	100-Yr	2Yr	100-Yr
	Landscaped	0.31	0.28	0.33	sheet flow	60	3.0	0.13	7.9	7.4				
Α	Paved & Roofs	0.10	0.93	0.95	shal/conc.	170	1.0	0.60	4.7	4.7				
	Total/Average	0.41	0.44	0.48					12.6	12.2	1.36	3.54	0.2	0.7
	Landscaped	1.52	0.28	0.33	sheet flow	90	2.0	0.12	11.1	10.4				
В	Paved & Roofs	0.71	0.93	0.95		0	2.0	1.00	0.0	0.0				
	Total/Average	2.23	0.49	0.53					11.1	10.4	1.46	3.8	1.6	4.5
	Landscaped	0.36	0.28	0.33	sheet flow	60	2.0	0.15	9.1	8.5				
С	Paved & Roofs	0.72	0.93	0.95	gutter	210	1.0	2.00	1.8	1.8				
					bar ditch	120	0.8	1.30	1.5	1.5				
	Total/Average	1.08	0.71	0.74					12.4	11.8	1.41	3.54	1.1	2.8
	Landscaped	1.29	0.28	0.33	sheet flow	200	2.0	0.08	16.6	15.6				
D	Paved & Roofs	1.56	0.93	0.95	gutter	210	0.7	1.70	2.1	2.1				
					storm sewer	450	0.5	4.82	1.6	1.6				
	Total/Average	2.85	0.64	0.67					20.2	19.2	1.11	2.91	2.0	5.6
	Landscaped	0.67	0.28	0.33	paved sheet	40	2.0	2.80	0.2	0.2				
Ε	Paved & Roofs	0.41	0.93	0.95	bar ditch	400	0.8	1.30	5.1	5.1				
	Total/Average	1.08	0.53	0.57					5.4	5.4	1.95	4.95	1.1	3.0
										Sub-Tot	al (withou	ut offsite):	6.0	16.6
											Off site	drainage:	0.0	0.0
To	tal Ac./weighted C	7.65	0.58	0.61				MAX. Tc	20.2	19.2		TOTAL Q:	6.0	16.6

7-Mar-96

BASIN	AREA SURFACE		RUNOFF	RUNOFF	REACH	LENGTH	SLOPE	v	2Yr TIME	100-Yr TIME		NSITY s/Hour	DISCH CFS (C	
	TYPE	Ac.	COEF. C2	COEF. C100	REACH	ft	(S) %	fps	MIN.	MIN.	2-Yr	100-Yr	2Yr	100-Yr
	Native grass &	1.13	0.25	0.28	Lo	180	5.0	0.07	12.0	11.6				
Α	scattered trees				Ls	250	1.6	1.90	2.2	2.2	1			
	Total/Average	1.13	0.25	0.28					14.2	13.8	1.32	3.33	0.4	1.1
	Native grass &	2.8	0.15	0.21	Lo	300	2.2	0.08	22.8	21.3				
в	scattered trees				Ls	146	2.2	1.00	2.4	2.4				
	Total/Average	2.8	0.15	0.21					25.2	23.8	0.98	2.57	0.4	1.5
	Native grass &	1.4	0.27	0.33	Lo	100	10.0	0.07	6.9	6.4				
С	scattered trees				Ls	155	0.5	0.70	3.7	3.7				
	Total/Average	1.4	0.27	0.33					10.6	10.1	1.46	3.8	0.6	1.8
	Native grass &	1.88	0.26	0.32	Lo	300	2.6	0.06	19.0	17.7				
D	scattered trees				Ls	30	6.6	2.50	0.2	0.2				
	Total/Average	1.88	0.26	0.32					19.2	17.9	1.14	2.99	0.6	1.8
	Native grass &	0.44	0.26	0.32	Lo	170	2.3	0.09	14.9	13.9				
Е	scattered trees				Ls	30	5.0	1.50	0.3	0.3				
	Total/Average	0.44	0.26	. 0.32					15.3	14.2	1.28	3.33	0.1	0.5
Total								MAX. Tc	25.2	23.8	Т	OTAL Qh:	2.0	6.6
				Ls velocities	from SCS n	omograph					IN	ICREASE:	4.0	10.0
otal Ac. /	weighted C	7.65	0.22	0.28									295.9%	251.7%

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Wilson F	Ranch Townh	omes												······································
Street and	storm sewer flow	1												
Discharge	ugh Street, Cur quantity is cale /n)*S^.5*d^2.67 Q = Discharge i Z = Inverse pav n = Manning rou	n CFS (C	y the follo ubic Feet (oss slope	-										
	S = Longitudina			or gutter						Capacity	For Storm	Drain Inl	ets	
Solvina fa	d = Depth of gu or maximum der									curb oper Ponding C Clogging)= .6 A (2g	IH)^.5]	-	
Solving for maximum depth at gutter Manning Roughness Coefficient= 0.016							Clogging factors: grate=0.5, box=0.0 H2 = 0.5 Ft. H100 = 1.0 Ft.							
		Street	Inverse Pave.	Min. Long.	Required 2 Year	2 year Water	100 Yr	100 Yr Water	Grate	Open		Require	Actual Capacity	Required
-	ubbasin	Locn.	x slope	Slope	Capacity	Depth	Capacity		Туре	Area	2 Yr	2 Yr	100 Yr	100 Yr
and the second	rainage	ID	1/ft/ft	S (ft/ft)	Q (cfs)	d (ft.)	Q (cfs)	d (Ft.)	NEENAH	Sq. Ft.	CFS	CFS	CFS	CFS
<u> </u>	street flow	C1	50.00	0.005	1.10	0.17	2.80	0.24	na					
<u>D</u>	street flow	D1 D2	50.00	0.005	0.35	0.11	0.90	0.16	na					
D	street flow storm drain inlet	SDI1	50.00	0.007	<u>1.66</u> 1.01	0.19	4.65 2.78	0.27	na CI-19X27	1.27	4.31	1.01	6.09	2.78
<u>D</u>	storm drain inlet	SDI1 SDI2			1.01		2.78		CI-19X27	1.27	4.31	1.01	6.09	2.78
<u>B</u>	storm drain inlet	SDI2 SDI3			0.55	<u> </u>	1.51		CI-19X27	1.27	4.31	0.55	6.09	1.51
<u>E</u>	storm drain inlet	SDI4			0.55		1.51		CI-19X27	:	4.31	0.55	6.09	1.51
	or flow velocity					L	L	 ~		<u>. </u>				<u> </u>
	······································		Inverse	Min.	Required	2 year		100 Yr						
		Street	Pave.	Long.	2 Year	Water	100 Yr	Water						
Si	ubbasin	Locn.	x slope	Slope	Capacity	Velocity	Capacity	Velocity						
D	rainage	ID	1/ft/ft	S ft/ft	Q (cfs)	(fps)	Q (cfs)	(fps)						
С	street flow	C1	50.00	0.005	1.10	1.51	2.80	1.91						
D	street flow	D1	50.00	0.005	0.35	1.14	0.90	1.44						
D	street flow	D2	50.00	0.007	1.66	1.90	4.65	2.46						
Storm Dra	ainage Pipe Cap	acities							-					
Storm		Pipe		Rough.	Capacity	Required	Flow	Flow						
Drain		Diameter	Slope	Coeff.	Q	Q	Velocity	Depth						
Location		(inches)	(ft/ft)	n	(cfs)	(cfs)	(fps)	(inches)		-				
Basin D Ou	tfall	15	0.005	0.01	5.94	5.55	4.82	14.6	ADS pipe	Note: Red	quired stor	m sewer c	apacities	are
Basins E +	D Outfalls	15	0.015	0.01	10.29	8.70	8.35	14.1	ADS pipe	based on	the 100 yr	event		

	Wilso	n Ranch Town	homes								
Developed Condition Impervious Area Tabulation											
		Trial #5									
	Total Area	area		ous Area							
Area	(acres)	description	(sf)	(acres)							
A		G1/2 rd	4300	0.10							
Subtotal	0.41	;	4300	0.10							
В	;	BG1	4320	0.10							
	· · · · · · · · · · · · · · · · · · ·	BG2	3600	0.08							
		BG3	3600	0.08							
	· · · · · · · · · · · · · · · · · · ·	BG4	4000	0.09							
	:	BG5	4000	0.09							
		BG6	4000	0.09							
	1	BG7	3600	0.08							
	:	BG8	3600	0.08							
Subtotal	2.23		30720	0.71							
С		BG12	4320	0.10							
		drive/park	13506	0.31							
		G 1/2 rd	13549	0.31							
Subtotal	1.08		31375	0.72							
D	:	BG9	4000	0.09							
		BG10	4320	0.10							
		BG11	5040	0.12							
		drive/park	29872	0.69							
		G 1/2 road	11520	0.26							
		parking	13336	0.31							
Subtotal	2.85		68088	1.56							
E	;	G 1/2 rd	17760	0.41							
Subtotal	1.08		17760	0.41							
TOTAL	7.65			3.50							

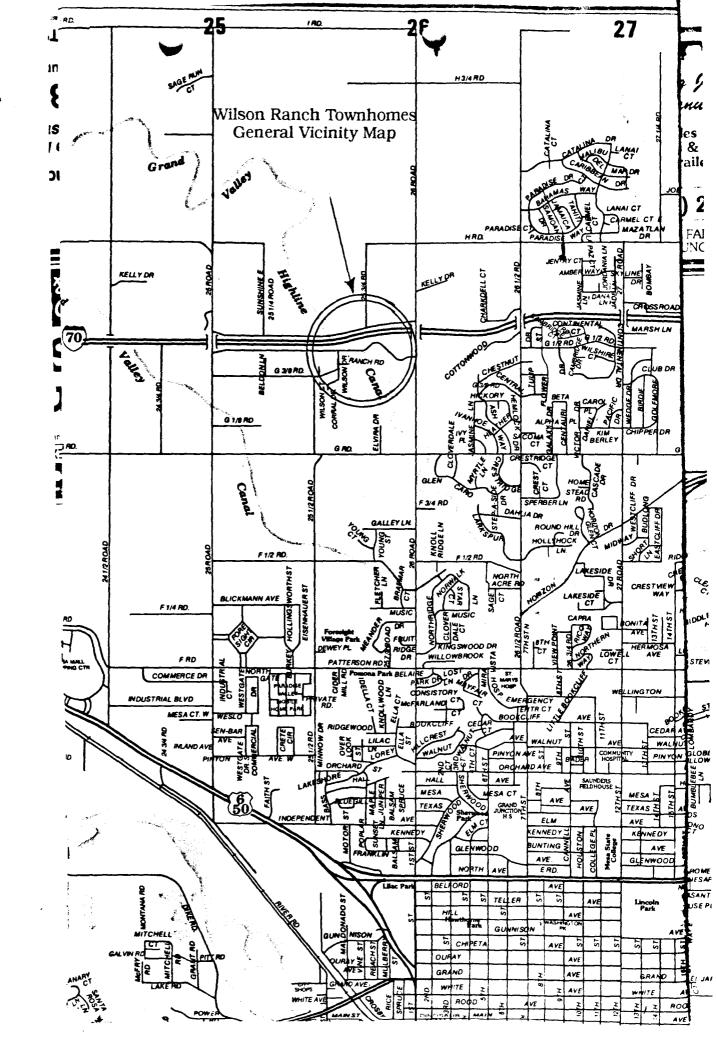
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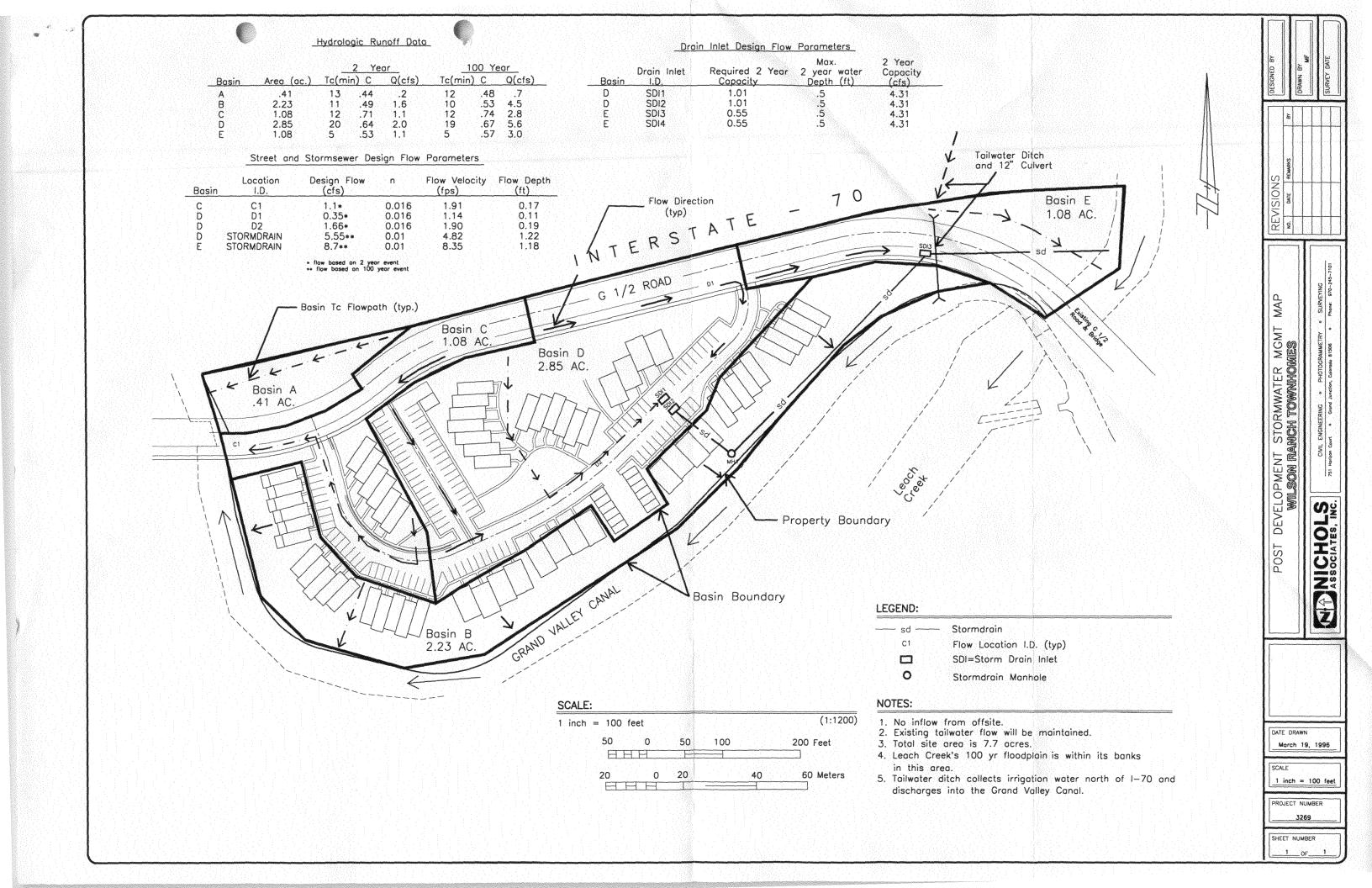
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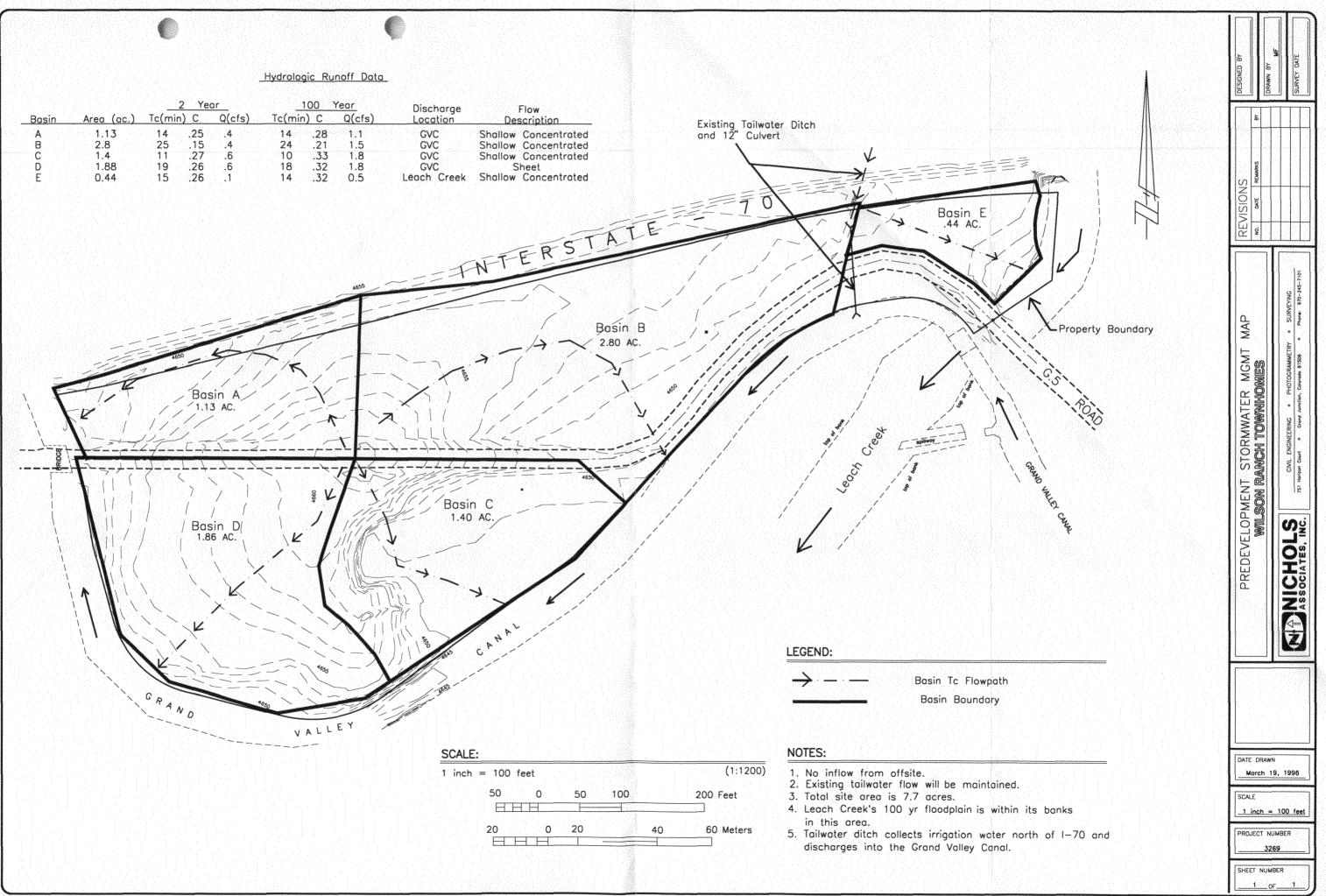


MAPS

- Preliminary Major Basin Drainage Map
- Final Major Basin Drainage Map

These maps are not included because the site is isolated by Interstate 70 and the Grand Valley Canal and is not a part of a larger "major basin".





Tax Parcel #2701-344-00-130

Beginning at a point on the north line of the SE 1/4 of section 34, T.1 N., R.1 W., Ute Meridian - said point being 596.23' east of the NW corner of the SE 1/4 of said Sec. 34; thence east along said North line 722.83' to the north bank of the Grand Valley Canal, also known as the Highline Canal; thence along the said north bank the following 6 courses and distances:

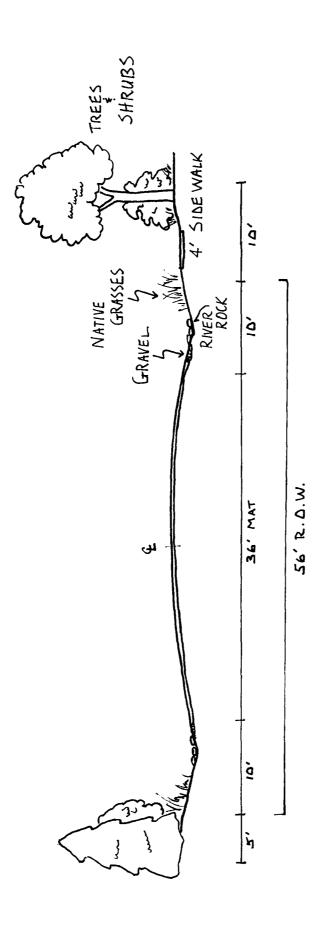
- (1) 545⁰29'15"W 171.38'
- (2) 556⁰44'15"W 301.17'
- (3) 580⁰30'15"W 107.47'
- (4) N74⁰13'45"W 135.85'
- (5) N47⁰02'00"W 80.36'
- (6) N14⁰08'30"W 217.97' to the point of beginning. Parcel

containing 3.36 acres more or less.

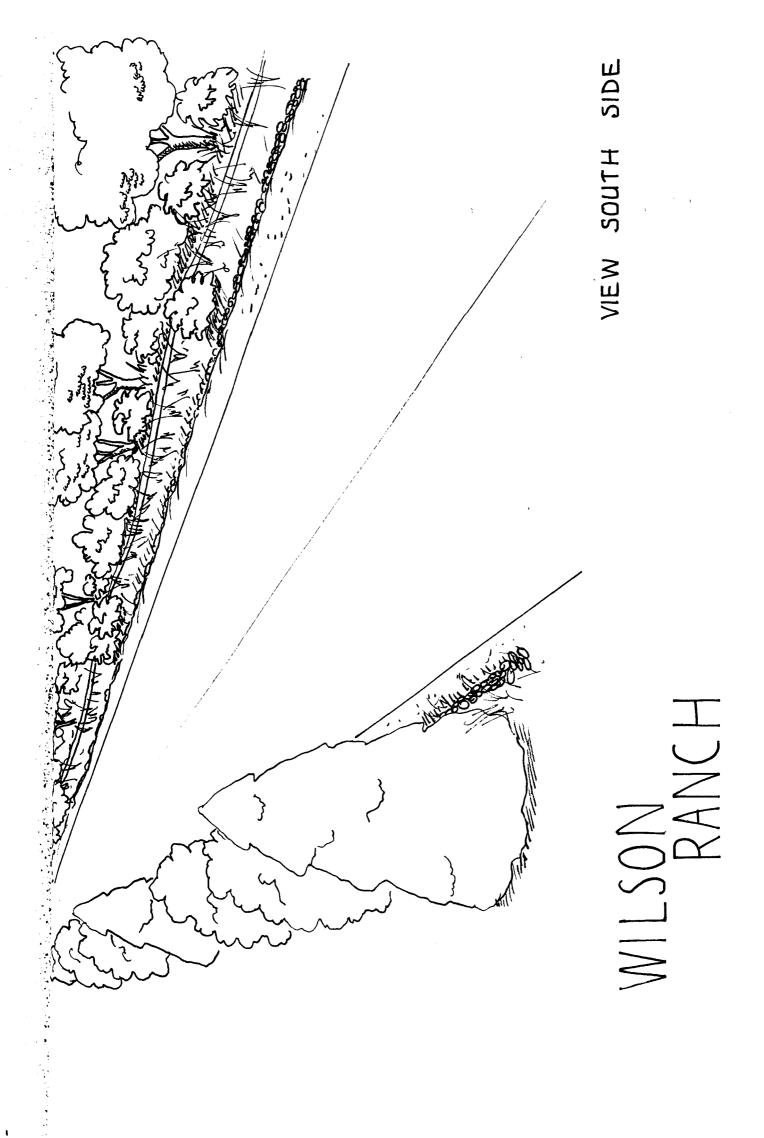
Tax Parcel #2701-341-00-141

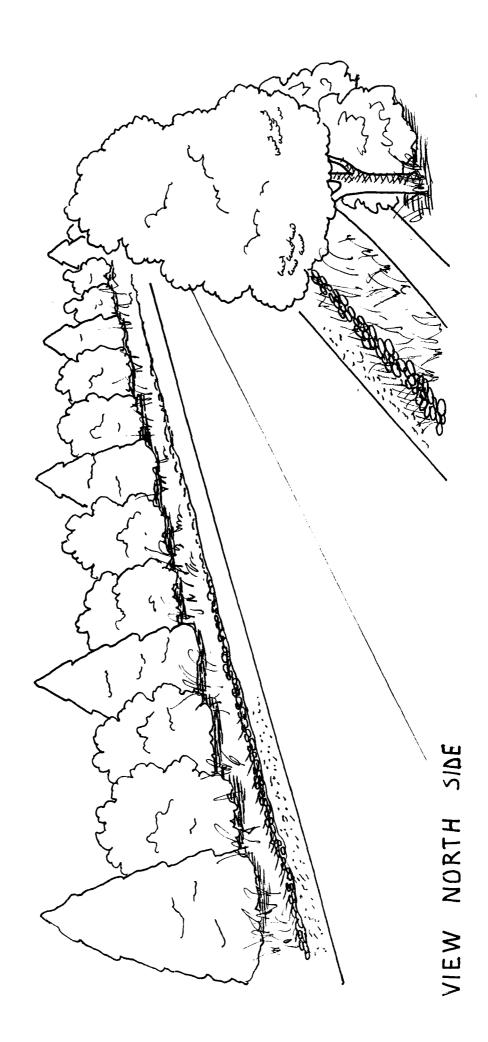
That part of SW4NE4 section 34 in T.1 N.,R.1 W. Ute Merdian lying east of Grand Valley canal & S. of I-70 & also that part of SE4NE4 said section 34 lying N. of Leach Wash & S. of I-70. Parcel containing 3.76 acres more or less.

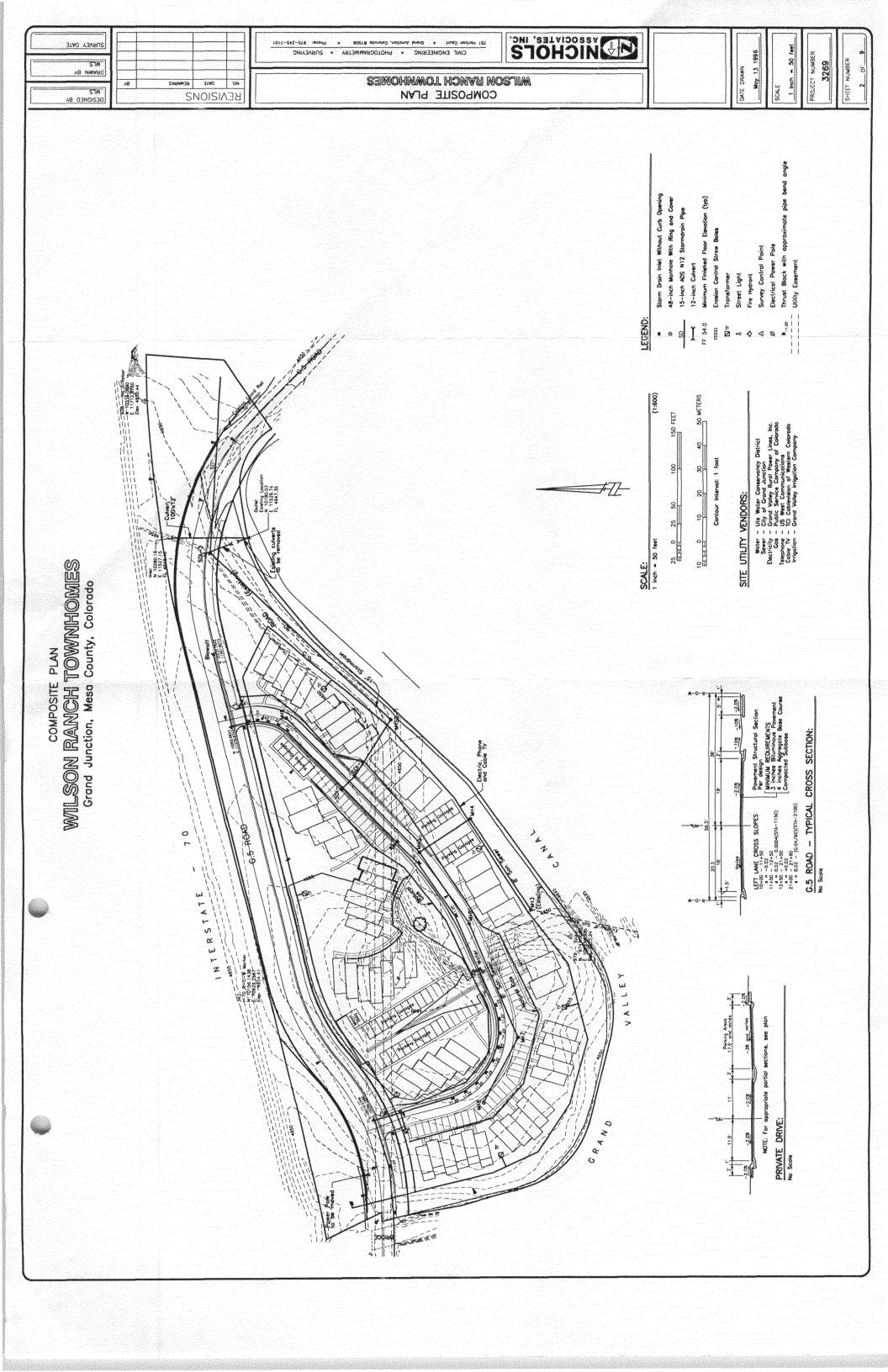
Parcel also includes the current, undescribed, ROW for G 1/2 Road which will be exchanged for new ROW in the above described parcels.

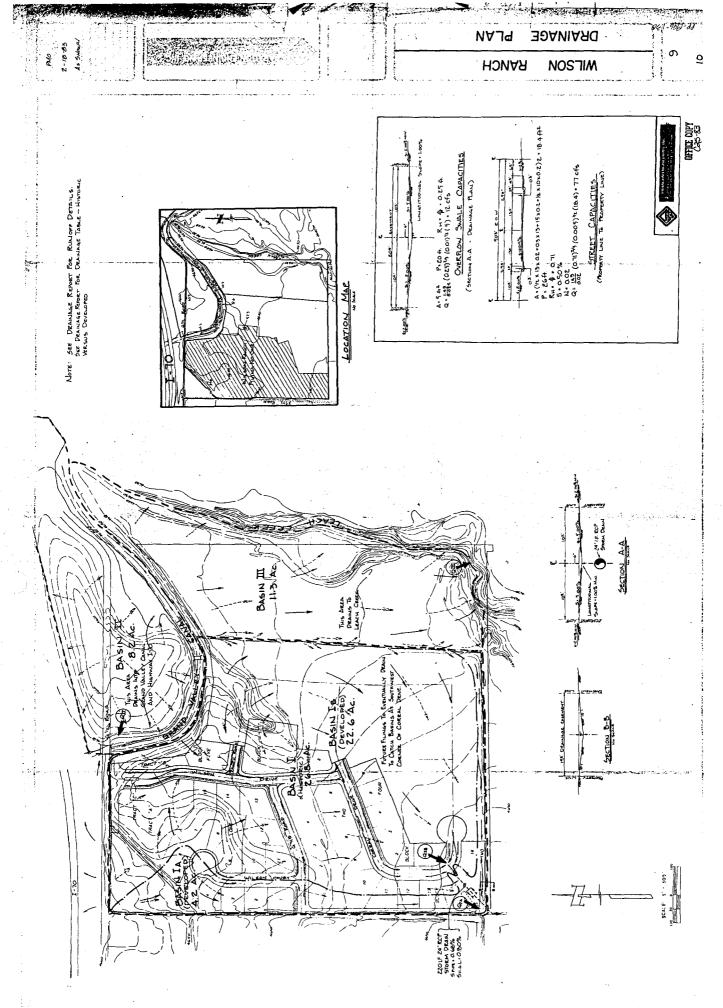












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