

8/26

C.O.

New Horizons Data

Zona
G O H

2716 Uassanne

K10 D/23

G16/D120

* FINALIZED
10/19/00

[Signature]

DRAINAGE INFORMATION SHEET

PROJECT TITLE: HORIZON VANS

ZONE ATLAS/DRNG, FILE#: G-16/D-120

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: Tract B-1-1, Comanche Business Park, City of Albuquerque, Bernalillo County, New Mexico

CITY ADDRESS: _____

ENGINEERING FIRM: Mark Goodwin & Associates CONTACT: David Soule

ADDRESS: PO Box 90606 PHONE: 828-2200

OWNER: Horizon Vans CONTACT: Nick

ADDRESS: _____ PHONE: 828-9611

ARCHITECT: De La Torre Architects CONTACT: Nick

ADDRESS: 7801 Academy Road PHONE: 828-9611

SURVEYOR: Aldrich Land Surveyors CONTACT: Tim Aldrich

ADDRESS: _____ PHONE: 884-1990

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ DRAINAGE REPORT
☒ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☒ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION
☐ OTHER

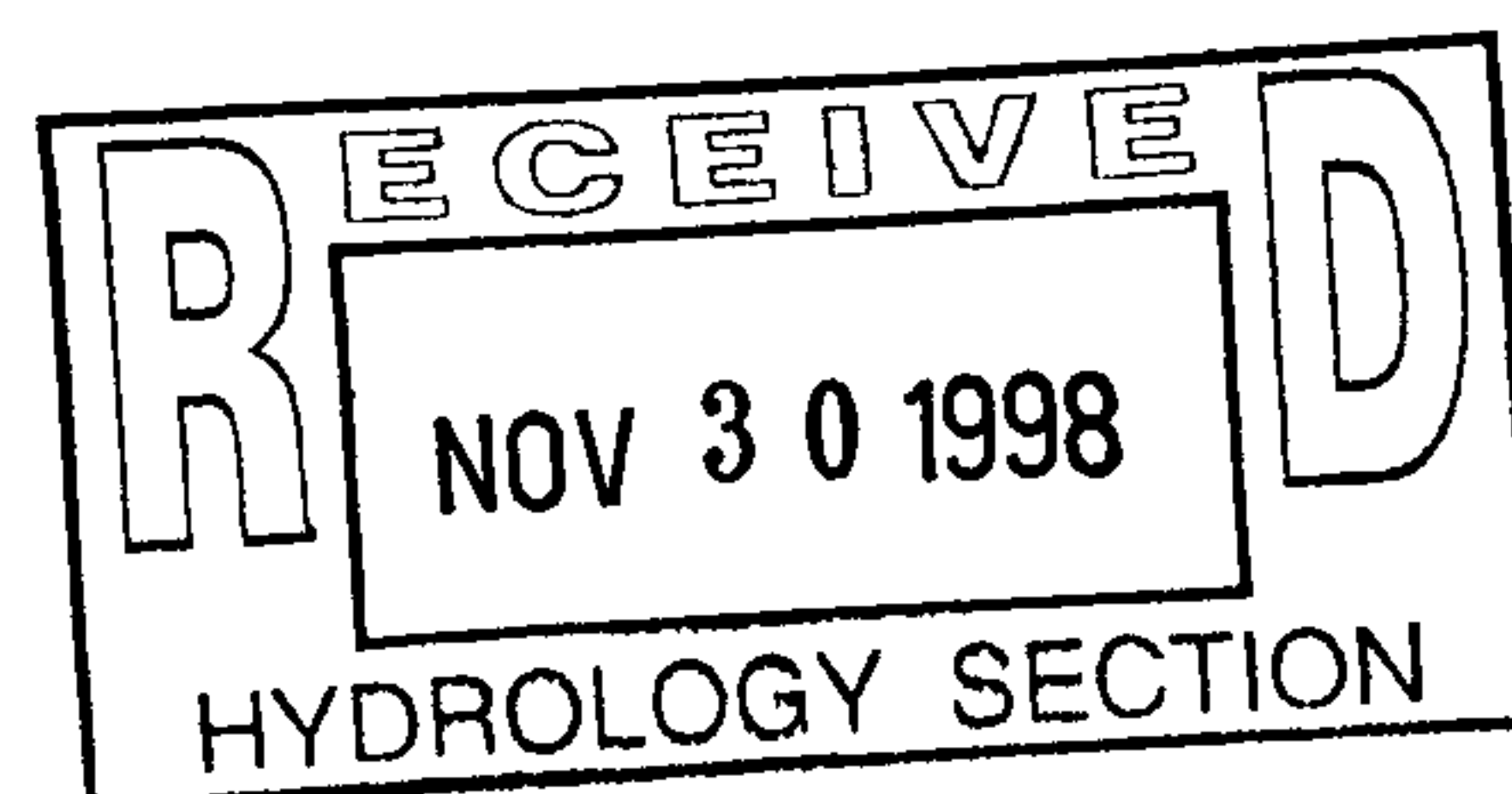
- ☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ S. DEV. PLAN FOR SUB'D APPROVAL
☐ S. DEV. PLAN FOR BLDG PERMIT APPROVAL
☐ SECTOR PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ FOUNDATION PERMIT APPROVAL
☒ BUILDING PERMIT APPROVAL
☐ CERTIFICATION OF OCCUPANCY APPROVAL
☐ GRADING PERMIT APPROVAL
☐ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☒ OTHER S.O. 19 (Specify)

PRE-DESIGN MEETING:

- ☐ YES
☒ NO
☐ COPY PROVIDED

DATE SUBMITTED: November 25, 1998

BY: David Soule
David Soule





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 16, 1999

Mark Goodwin, P.E.
Mark Goodwin & Associates
P.O. Box 90606
Albuquerque, NM 87199

RE: HORIZON VANS (G16-D120). GRADING AND DRAINAGE PLAN FOR BUILDING PERMIT AND SO#19 PERMIT APPROVALS. ENGINEER'S STAMP DATED FEBRUARY 2, 1999.

Dear Mr. Goodwin:

Based on the information provided on your February 8, 1999 submittal together with the AHYMO data furnished on March 12, 1999, the above referenced project is approved for both Building and SO#19 Permits.

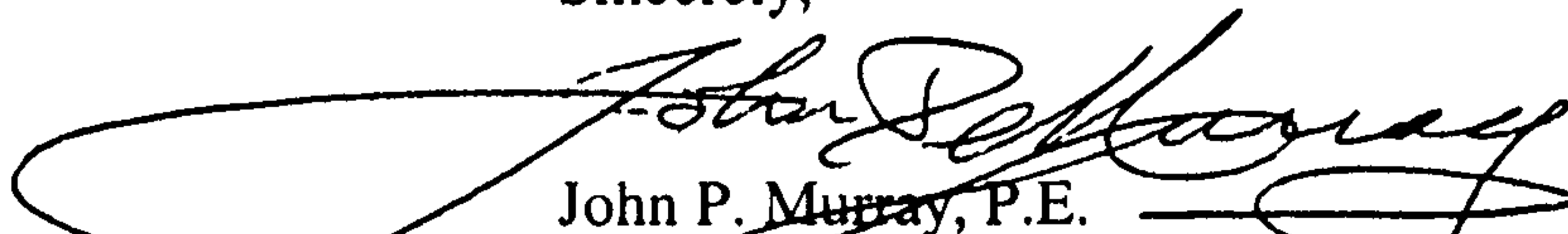
Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

A separate permit is required for construction within the City right-of-way. A copy of this approval letter must be on hand when applying for the excavation permit.

Prior to Certificate of Occupancy approval, an Engineer's Certification per the DPM will be required.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,


John P. Murray, P.E.
Hydrology

c: Arlene Portillo
D. Salas, St. Maint.
Andrew Garcia
✓ File

PUBLIC WORKS DEPARTMENT

MARCH 16, 1999

INTEROFFICE CORRESPONDENCE

HYDROLOGY DIVISION

TO: Desiderio Salas, Street Maintenance Division

FROM:  John P. Murray, P.E., Hydrology, PWD

SUBJECT: **PRIVATE DRAINAGE FACILITIES WITHIN PUBLIC RIGHT-OF-WAY
DRAINAGE FILE NUMBER (G16-D120).**

Transmitted herewith is a copy of the approved drainage plan for the referenced project incorporating the SO #19 design.

This plan is being submitted to you for permitting and inspection. Please provide this section with a signed-off copy per the signature block upon construction and acceptance by your office.

As you are aware, the signed off SO #19 is required by this office for Certificate of Occupancy release; therefore your expeditious processing of this plan would be greatly appreciated and would avoid any unnecessary delay in the release of the Certificate of Occupancy.

Thank you for your cooperation and if you should have any questions and/or comments, please feel free to call me at 924-3984.

Attachment

LETTER OF TRANSMITTAL



D. Mark Goodwin & Associates, P.A.
Consulting Engineers

P.O. BOX 90606, ALBUQUERQUE, NM 87199
(505) 828-2200 FAX 797-9539
e-mail: dmgs@swcp.com

TO COA-one stop

DATE	3/10/99	JOB NO.
ATTENTION	John Murray	
RE:	Horizon Vans	

WE ARE SENDING YOU ☐ Attached ☐ Under separate cover via _____ the following items:

- | | | | | |
|---|---------------------------------------|--------------------------------|----------------------------------|---|
| <input type="checkbox"/> Shop drawings | <input type="checkbox"/> Prints | <input type="checkbox"/> Plans | <input type="checkbox"/> Samples | <input type="checkbox"/> Specifications |
| <input type="checkbox"/> Copy of letter | <input type="checkbox"/> Change order | <input type="checkbox"/> _____ | | |

COPIES	DATE	NO.	DESCRIPTION
1			Hydro Ems

3/10
Mark G to
furnish AHYMO
Data Sheets. *gmg*

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input type="checkbox"/> For approval | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit _____ copies for approval |
| <input type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit _____ copies for distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> Return _____ corrected prints |
| <input type="checkbox"/> For review and comment | <input type="checkbox"/> _____ | |
| <input type="checkbox"/> FOR BIDS DUE _____ 19 _____ <input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US | | |

REMARKS _____

R **E** **C** **E** **I** **V** **E** **D**
MAR 12 1999
HYDROLOGY SECTION

COPY TO _____

SIGNED: *Mark Goodwin*

AHYMO PROGRAM (AHYMO194) - AMAFCA Hydrologic Model - January, 1994
 RUN DATE (MON/DAY/YR) = 03/10/1999
 START TIME (HR:MIN:SEC) = 16:05:05 USER NO. = M_GOODWN.I01
 INPUT FILE = horizon.dat

RECEIVE
 MAR 12 1999
 HYDROLOGY SECTION

START TIME=0.0
 ***** HORIZON VANS
 ***** 100-YEAR 6-HOUR STORM EVENT
 ***** FILE: HORIZON.DAT FEB 1999 BY:DLH
 RAINFALL TYPE=1 RAIN QUARTER=0.0 IN
 RAIN ONE=2.01 IN RAIN SIX=2.35 IN
 RAIN DAY=2.75 IN DT=0.05 HR

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.

DT =	.050000 HOURS						END TIME =	6.000000 HOURS					
.0000	.0024	.0049	.0075	.0102	.0130	.0158							
.0188	.0219	.0252	.0286	.0321	.0358	.0397							
.0439	.0482	.0529	.0578	.0631	.0689	.0751							
.0836	.0930	.1201	.1842	.2944	.4649	.7103							
1.0460	1.3107	1.4303	1.5302	1.6176	1.6959	1.7667							
1.8313	1.8906	1.9452	1.9955	2.0421	2.0851	2.0946							
2.1034	2.1115	2.1191	2.1262	2.1330	2.1394	2.1455							
2.1513	2.1569	2.1622	2.1673	2.1723	2.1771	2.1817							
2.1862	2.1905	2.1948	2.1989	2.2028	2.2067	2.2105							
2.2142	2.2178	2.2213	2.2248	2.2282	2.2315	2.2347							
2.2379	2.2410	2.2440	2.2470	2.2500	2.2529	2.2557							
2.2585	2.2613	2.2640	2.2666	2.2693	2.2719	2.2744							
2.2769	2.2794	2.2818	2.2842	2.2866	2.2889	2.2913							
2.2935	2.2958	2.2980	2.3002	2.3024	2.3046	2.3067							
2.3088	2.3109	2.3129	2.3150	2.3170	2.3190	2.3209							
2.3229	2.3248	2.3267	2.3286	2.3305	2.3323	2.3342							
2.3360	2.3378	2.3396	2.3414	2.3431	2.3449	2.3466							
2.3483	2.3500												

 ***** EXISTING CONDITIONS

 COMPUTE NM HYD ID=1 HYD NO=100.0 AREA=0.001478 SQ MI
 PER A=19 PER B=10 PER C=8 PER D=63
 TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420

UNIT PEAK = 3.6762 CFS UNIT VOLUME = .9959 B = 526.28 P60 = 2.0100

AREA = .000931 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .050000

K = .141172HR TP = .133300HR K/TP RATIO = 1.059058 SHAPE CONSTANT, N = 3.334171

UNIT PEAK = 1.2637 CFS UNIT VOLUME = .9899 B = 308.02 P60 = 2.0100

AREA = .000547 SQ MI IA = .54459 INCHES INF = 1.37486 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .050000

PRINT HYD ID=1 CODE=1

PARTIAL HYDROGRAPH 100.00

RUNOFF VOLUME = 1.59099 INCHES = .1254 ACRE-FEET
 PEAK DISCHARGE RATE = 3.48 CFS AT 1.500 HOURS BASIN AREA = .0015 SQ. MI.

FINISH

NORMAL PROGRAM FINISH END TIME (HR:MIN:SEC) = 16:05:06

WILL CALL AGAIN

WANTS
TO SEE YOU

MESSAGE

~~NO~~

828-2200

Mark Goodwin

Called 3:20 3/10

SIGNED



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 5, 1999

Add
SO#19

Mark Goodwin, P.E.
Mark Goodwin & Associates
P.O. Box 90606
Albuquerque, NM 87199

RE: HORIZON VANS (G16-D120). GRADING AND DRAINAGE PLAN FOR BUILDING PERMIT APPROVAL. ENGINEER'S STAMP DATED FEBRUARY 2, 1999.

Dear Mr. Goodwin:

Based on the information provided on your February 8, 1999 submittal, City Hydrology has the following comments:

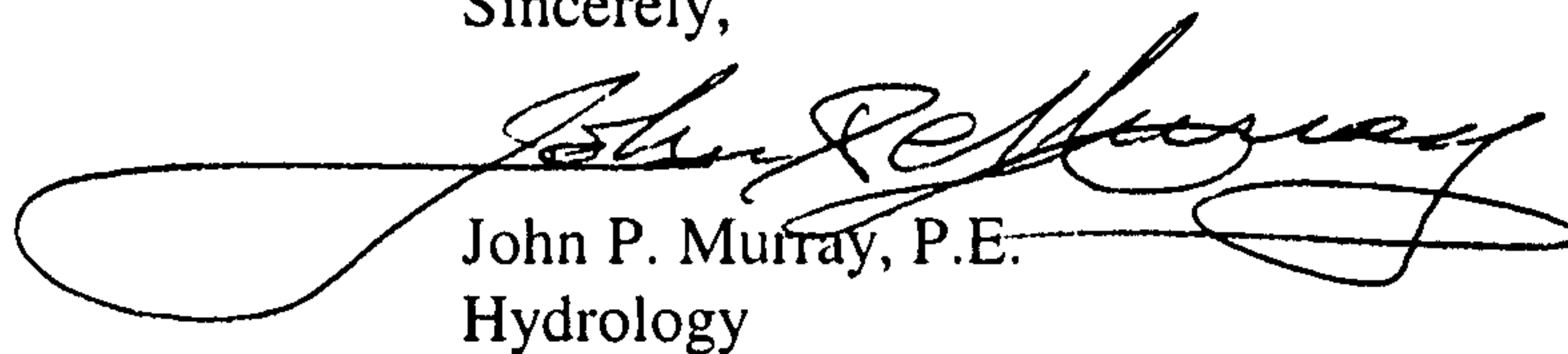
We doubt that you intended the haughtiness of your response regarding hydrology calculations.

For projects this size, C.O.A. has become so accustomed to the Engineer summarizing the data for existing and proposed conditions, usually in tabular form, as to consider it standard. Columns are headed: Basin, Area, Treatment - A, B, C, and D, V360 (ac-ft), Q100 (cfs), with totals for Area and Q100.

The two (2) percent increase in discharge - 3.48 versus 3.41 cfs - is acceptable.

If I can be of further assistance, please feel free to contact me at 924-3984.

Sincerely,


John P. Murray, P.E.
Hydrology

c: Andrew Garcia
✓ File



D. Mark Goodwin & Associates, P.A.
Consulting Engineers

P.O. BOX 90606, ALBUQUERQUE, NM 87199
(505) 828-2200 FAX 797-9539
e-mail: dmgs@swcp.com

February 8, 1999

Mr. Fred Aguirre
City of Albuquerque
Hydrology Department
P.O. Box 1293
Albuquerque, NM 87103

Re: Horizon Vans; G16/D120

Dear Mr. Aguirre:

We are in receipt of your letter dated 1/27/99 and your consultants letter dated 1/16/99 and offer the following:

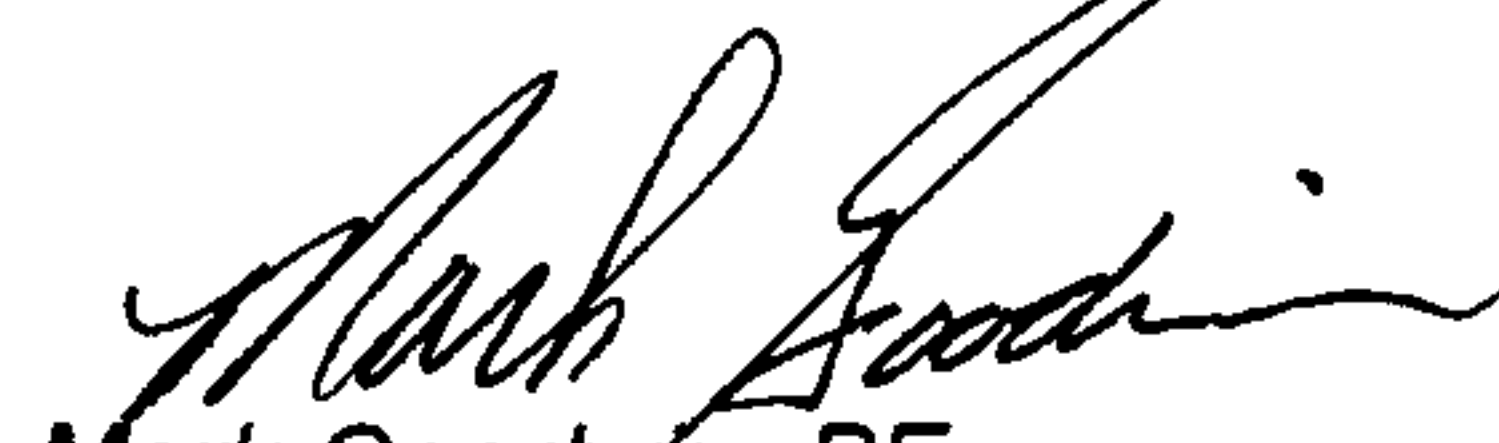
1. We have re-computed Land Treatments and have changed our calculations accordingly. New $Q_{100} = 3.48$ cfs vs. allowable $Q_{100} = 3.41$ cfs. We consider this negligible. We have added labels as requested.
2. The weir equation typo has been corrected. $H = 0.5$ feet
3. We removed this calculation since it was not necessary. Mannings Equations nomograph shows a capacity of 6 cfs.
4. An area of 420 sf drains into our landscape area from the adjacent landscaped area at our SE Corner. This again is negligible, however, we will remedy the situation with our project.
5. We seldom provide the actual calculations for a project of this magnitude. Design Parameters are provided. The volume has been shown. ✓

With this submittal, we hereby request Building Permit Approval and S.O. 19.

Please call if you have any questions or concerns.

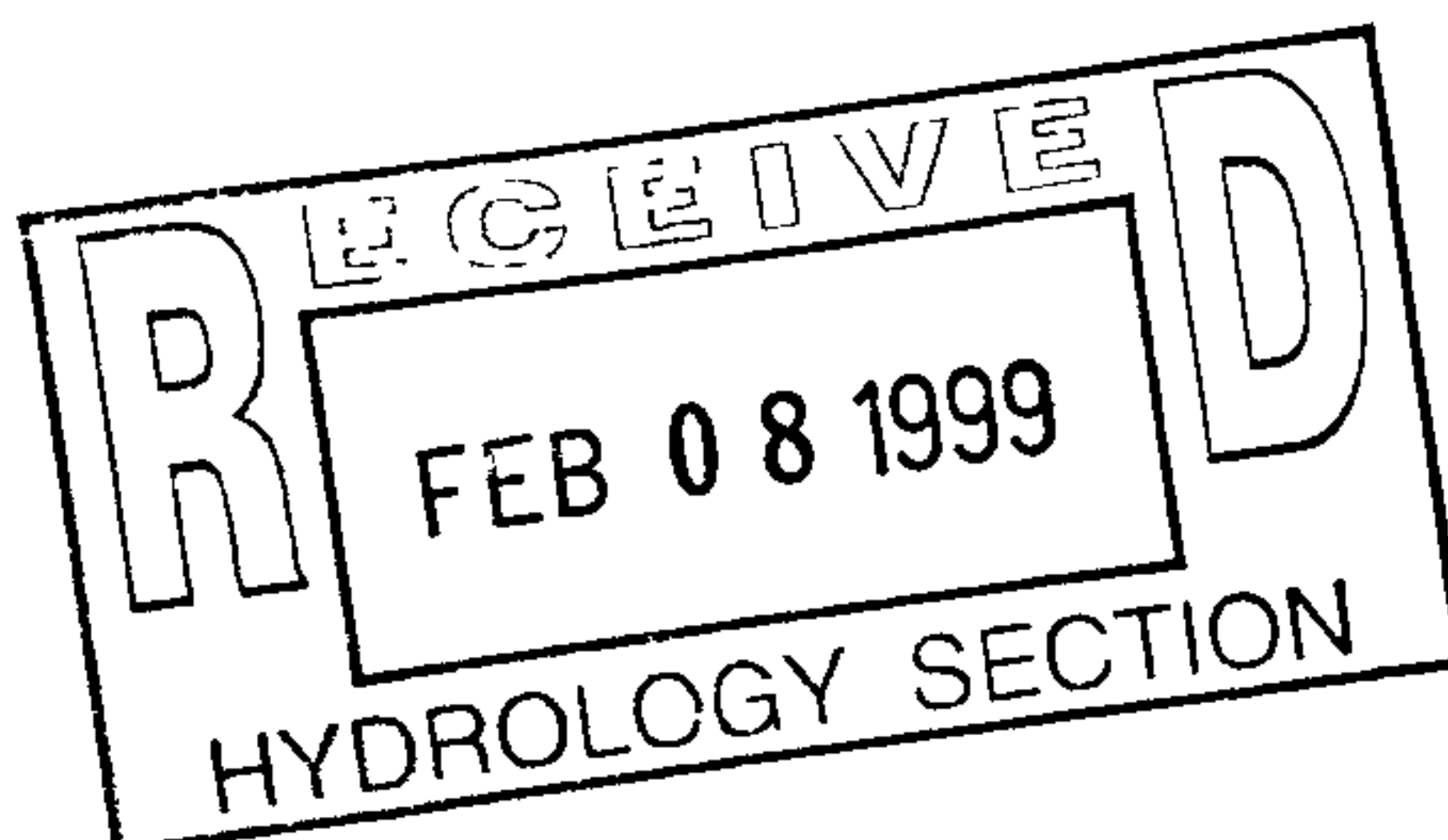
Sincerely,

MARK GOODWIN & ASSOCIATES, PA


Mark Goodwin, PE
President

DMG/st

f:\horizon.van\comments.wpd



proposed development includes construction of new sidewalk, landscaping, a parking lot, asphalt paving, a bus lane, detention pond, and 6 sandboxes.

Methodology: Section 22.2 of the City of Albuquerque DPM was used in the hydrology analysis. The principal design storm of 100-yr 6-hour event was used.

Existing Drainage Condition: The area is divided into four basins. Basin 101, the Northwest section of the site and is comprised of uncompacted soil, asphalt, and a sand box area. Runoff is collected at the northwest corner of the basin and ponds on the northeast corner. Basin 102 encompasses an existing parking lot located on the Northeast corner of school grounds and discharges onto Hendrix Avenue. Basin 103 includes a portion of existing classroom buildings, landscaping, and sheet flows towards the west, is collected by a natural swale, and is discharged onto Hendrix Avenue. Basin 104 is comprised of classroom buildings, basketball courts, portable buildings, asphalt parking, and walkways. All runoff is discharged onto Madeira Drive via of sheet flow and/or natural swales.

Table 1 provides a breakdown of the existing land types for each basin including their respective runoff and discharge values.

Table 1

Basin	Area (ac)	TREATMENT				V ₃₆₀ (acre-ft)	Q ₁₀₀ (cfs)
		%A	%B	%C	%D		
101	2.52	95.3	0	0	4.7	0.16	5.08
102	0.31	0	40.0	0	60	0.05	1.26
103	1.61	21.4	16.1	0	62.5	0.24	7.63
104	5.88	70.2	2.3	0	27.5	0.56	16.18
Total	10.32						30.15

Proposed Conditions: The addition of a new parking lot and a full way and deletion of the existing parking lot have modified and created an additional basin to the site. Basin 201 includes new sod baseball field, and two sandboxes. Runoff will sheet flow towards the northwest corner of the site, collect on a proposed swale, will continue through a proposed sidewalk culvert and discharged onto Hendrix Avenue. Basin 202 incorporates a new parking facility and will also discharge onto Hendrix Avenue. Basin 203 improvements include new landscaping and the removal of the existing parking lot. Runoff will be discharged onto Hendrix Avenue through a proposed sidewalk culvert. Basin 204 improvements include asphalt paving, 3 sandboxes, landscaping, and a sod playing field. Runoff will sheet flow west onto Madeira Drive and discharge onto Madeira Drive through a proposed sidewalk culvert. Basin 205 includes reconstruction of sidewalk, a proposed bus lane, and landscaping. The bus lane will be used to channel runoff from the Special Classroom building and the existing parking lot onto Madeira Drive.

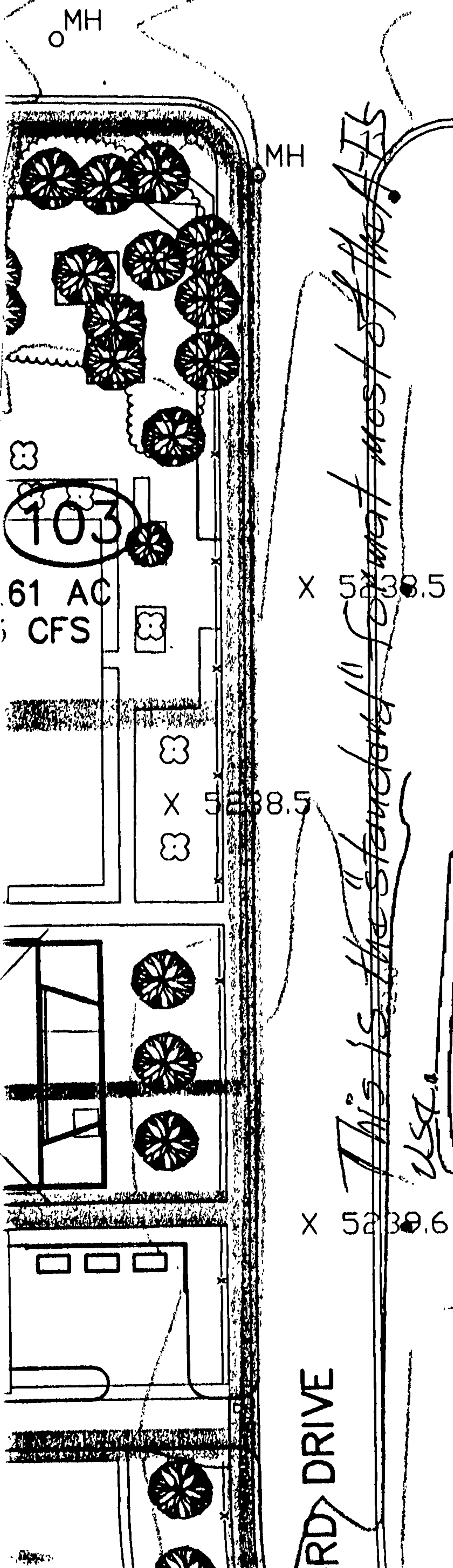
Table 2 provides a breakdown of the proposed land types for each basin including their respective runoff and discharge values.

Table 2

Basin	Area (ac)	TREATMENT				V ₃₆₀ (acre-ft)	Q ₁₀₀ (cfs)
		%A	%B	%C	%D		
201	1.98	55.5	24.2	0	20.3	0.175	5.27
202	1.98	9.29	5.77	0	84.94	0.346	8.99
203	0.74	0	49.0	0	51.0	0.101	2.82
204	4.31	20.9	31.8	0	47.3	0.554	15.46
205	1.35	0	10.6	0	89.4	0.248	6.43
Total	10.32						38.97

Conclusions: The proposed improvements will increase runoff from 30.15 cfs to 38.97 cfs. All runoff will be discharged from Basins 201, 202, and 203 onto Hendrix Avenue and Madeira Drive. An additional detention pond located west of the Hendrix/Madeira intersection will collect this runoff. The drop inlet ties into the existing storm drain with a 36" line. Presently, about 14 cfs is being discharged into the inlet. Proposed improvements will increase the total discharge capacity by 27%. The 36" storm drain is adequate for the proposed sump condition.

An additional 22 cfs will be discharged by Basins 204 and 205 onto Madeira Drive. The discharge will be further south on Madeira Drive just west of the existing basketball courts. The flow will be routed to the Hahn Arroyo. Existing discharge conditions into this arroyo is approximately 16 cfs. Proposed improvements will increase discharge by approximately 37.5%.



DRAINAGE INFORMATION SHEET

PROJECT TITLE: HORIZON VANS

ZONE ATLAS/DRNG, FILE#: G-16/D120

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: Tract B-1-1, Comanche Business Park, City of Albuquerque, Bernalillo County, New Mexico

CITY ADDRESS: _____

ENGINEERING FIRM: Mark Goodwin & Associates CONTACT: ~~David Sode~~ **MARK G**

ADDRESS: PO Box 90606 PHONE: 828-2200

OWNER: Horizon Vans CONTACT: Nick

ADDRESS: _____ PHONE: 828-9611

ARCHITECT: De La Torre Architects CONTACT: Nick

ADDRESS: 7801 Academy Road PHONE: 828-9611

SURVEYOR: Aldrich Land Surveyors CONTACT: Tim Aldrich

ADDRESS: P.O. Box 30701 PHONE: 884-1990

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☒ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☒ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION
- ☐ OTHER

PRE-DESIGN MEETING:

- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

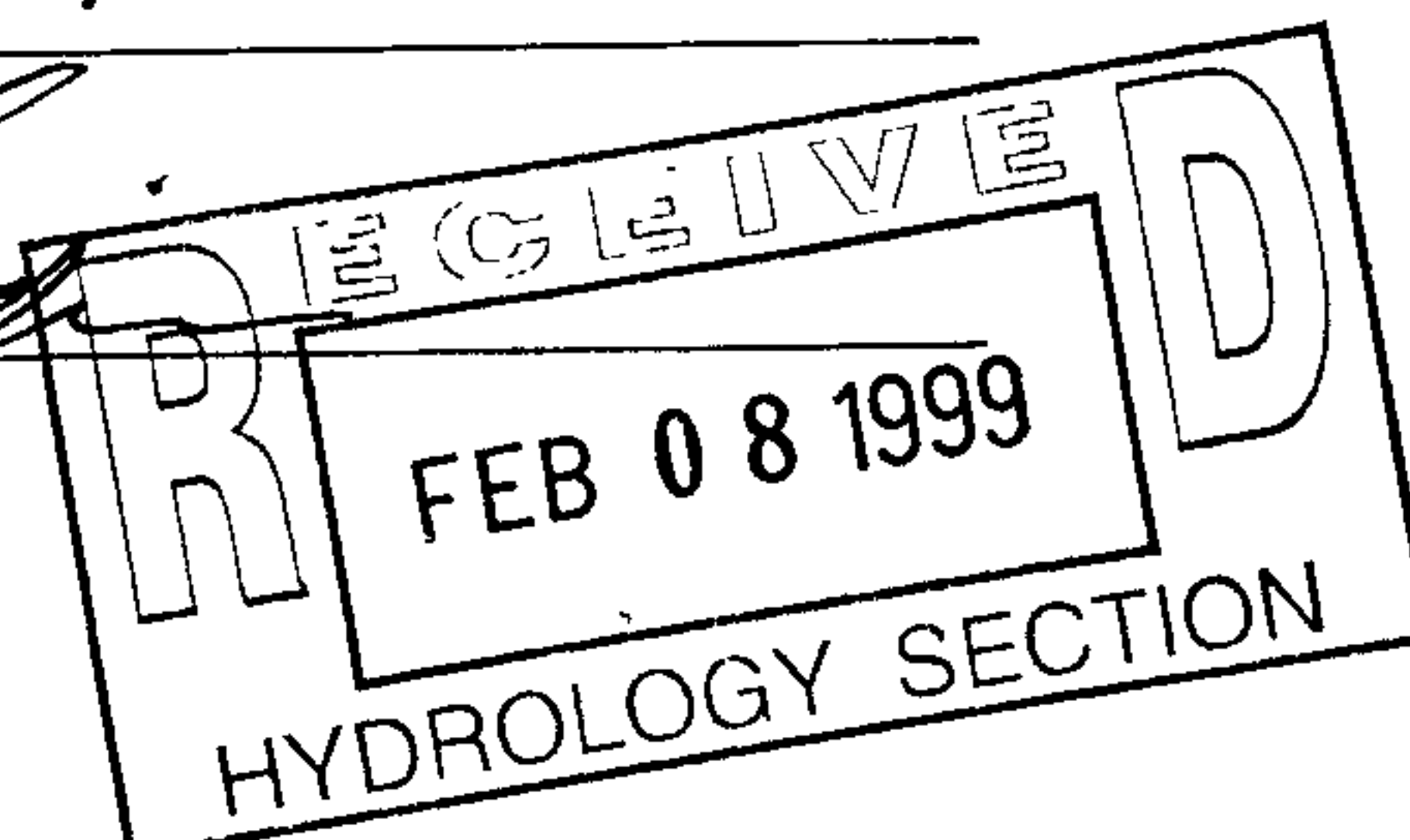
CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D APPROVAL
- ☐ S. DEV. PLAN FOR BLDG PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☒ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATION OF OCCUPANCY APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ S.A.D. DRAINAGE REPORT
- ☐ DRAINAGE REQUIREMENTS
- ☒ OTHER S.O. 19 (Specify)

DATE SUBMITTED: 2/8/99

BY: Mark Goodwin

Mark Goodwin, PE



DRAINAGE INFORMATION SHEET

PROJECT TITLE: HORIZON VANS

ZONE ATLAS/DRNG, FILE#: G-16 / D120

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: Tract B-1-1, Comanche Business Park, City of Albuquerque, Bernalillo County, New Mexico

CITY ADDRESS: _____

ENGINEERING FIRM: Mark Goodwin & Associates

CONTACT: David Soule

ADDRESS: PO Box 90606

PHONE: 828-2200

OWNER: Horizon Vans

CONTACT: Nick

ADDRESS: _____

PHONE: 828-9611

ARCHITECT: De La Torre Architects

CONTACT: Nick

ADDRESS: 7801 Academy Road

PHONE: 828-9611

SURVEYOR: Aldrich Land Surveyors

CONTACT: Tim Aldrich

ADDRESS: P.O. Box 30701

PHONE: 884-1990

CONTRACTOR: Enterprise Builders

CONTACT: Robt Garcia

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ DRAINAGE REPORT
☐ DRAINAGE PLAN
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☒ ENGINEER'S CERTIFICATION
☐ OTHER

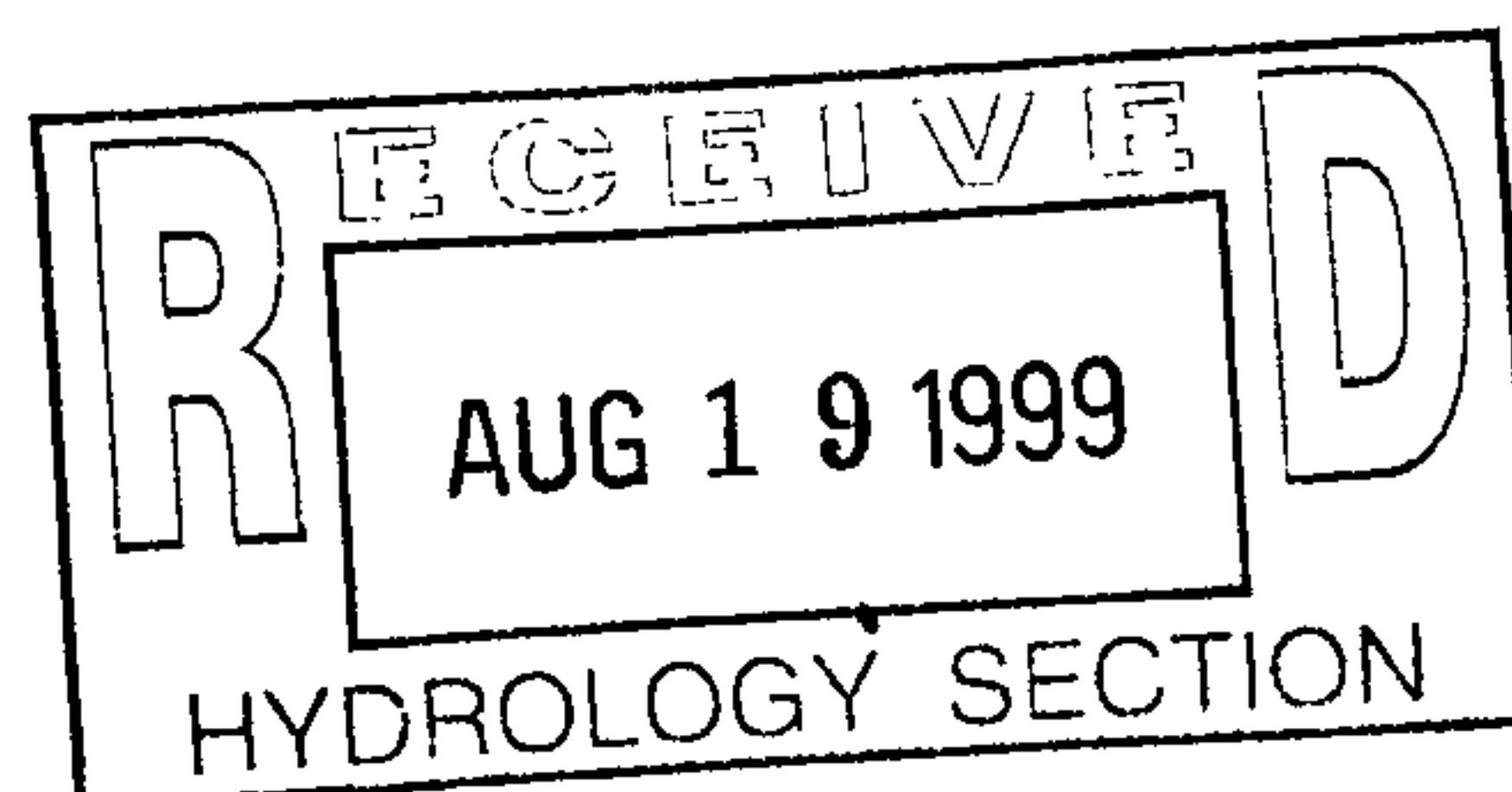
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☐ PAVING PERMIT APPROVAL
☐ S.A.D. DRAINAGE REPORT
☐ DRAINAGE REQUIREMENTS
☐ OTHER S.O. 19 (Specify)

PRE-DESIGN MEETING:

- ☐ YES
☒ NO
☐ COPY PROVIDED

DATE SUBMITTED: 8/19/99

BY: Mark Goodwin
Mark Goodwin, PE





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

January 27, 1999

Mark Goodwin
Mark Goodwin & Associates
P.O. Box 90606
Albuquerque, NM 87109

Re: **Horizon Vans** - Grading and Drainage Plan for Building Permit
approval. Dated and signed December 18, 1998 by D. Mark Goodwin,
P.E. (G-16/D-120)

Dear Mark:

Attached are our consultant's comments on the referenced Drainage Plan.
Please address these comments and resubmit for our approval.

If can be of further assistance, please feel free to contact me at 924-
3980.

Sincerely,

Fred J. Aguirre, P.E.
City Hydrologist
Public Works Department

Attachments:

c: file



January 16, 1999

Mr. Fred Aguirre, P.E.
Hydrologist
City of Albuquerque
Public Works Department
P.O. Box 1293
Albuquerque, NM 87103

RE: Horizon Vans - Grading and Drainage Plan

(Consists of Grading and Drainage Plan - 1 - 24" X 36" sheets (Dated and signed 12/18/98 by D. Mark Goodwin, P.E.)

Brief History of Project Submittals and Reviews

First Submittal dated 11/25/98 by D. Mark Goodwin, P.E. This was apparently not reviewed by your office.

The current submittal is very similar to the previous submittal but has some changes. I therefore did not review the first submittal.

Date Stamped Received in Hydrology Section - December 28, 1998

Drainage File : G16 / D120

**Request Approvals for : Building Permit
S.O. 19**

SEC Job # 198624.B25

Dear Mr. Aguirre,

Smith Engineering Company (SEC) is pleased to review the referenced submittal. This project consists of construction of a commercial building on a 1 acre lot.

My review comments are as follows:



- 3.41
CFA
P.S.
1. Land Treatment Percentages - The % D listed is 55%, this appears to low so I did a rough calculation and computed 69% D. Some of the areas on the plan are not specified as to what they will be so I made the best assumptions I could. My calculations are attached and correspond to Sheet 1 of 1 (the grading and drainage plan). I believe the % D is too low and should be recomputed and changed. If the %D is increased, that will push the computed discharge over the allowable limit because now the Q100 is shown as 3.35 cfs and the allowable for the site is ~~3.31~~ 3.31 cfs. I did not compute the % land treatment types for A, B or C. A legend or some labeling as to what various parts of the lot will be (landscaping, sidewalks, bare ground, etc.) would be EXTREMELY HELPFUL.

2. It appears the formula for the weir equation is incorrect. The exponent on H is shown as 0.5 and I believe should be 1.5. The assumed value for H is not given. What is the value assumed for H?

3. What are the values assumed for the Mannings's Equation Calculation??

N = ? Depth and area = ?? Rh = ? S = ?

4. The plan states that off-site flows do not impact the site. However, it appears from the plan that there may be flows that enter the southeast corner of the site from a portion of the adjacent lot. ??

5. The hydrology calculations are really non-existent. The data is presented but no calculations. The Q100 is presented by no Volume (V100) is given. Where are the calculations??

Please call me if you have any questions or want to review this comments together.

Sincerely,

Smith Engineering Company
Pat Stovall, P.E.

O:\100\198624b\b25-1-7.doc

1-16-98

HORIZON VANS

LAND TREATMENT % A DO NOT LOOK
CORRECT, CHECK THEM

LOCATION ON PLAN	% D DESCRIPTION	ft. x ft	SQ FT
①	Big Roof	49 x 119 =	5831
②	Small Roof	24 x 53 =	1272
③	" "	11 x 9 =	99
④	sidewalk	4 x 117 =	468
⑤	" "	41 x 86 =	344
⑥	" "	4 x 110 =	440
⑦	ASPHALT	141 x 118 =	1652
⑧	" "	82 x 120 =	9840
⑨	" "	24 x 110 =	2640
⑩	" "	13 x 26 =	338
⑪	" "	69 x 70 =	4550
⑫	concrete channel	3 x 346 =	1038
⑬	asphalt	12 x 16 =	192

$$= 28,704 \text{ sq ft}$$

$$= 0.659 \text{ acres}$$

$$\text{TOTAL LOT AREA} = 0.9462 \text{ acres}$$

$$\% D = \frac{0.659}{0.9462} = 69\%$$

★ SHEET 1 OF 1 SHOWS 55% D, !
APPEARS TO BE INCORRECT

DRAINAGE INFORMATION SHEET

PROJECT TITLE: HORIZON VANS.

ZONE ATLAS/DRNG, FILE#: G-16/D12C

DRB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: Tract B-1-1, Comanche Business Park, City of Albuquerque, Bernalillo County, New Mexico

CITY ADDRESS: _____

ENGINEERING FIRM: Mark Goodwin & Associates CONTACT: David Soule

ADDRESS: PO Box 90606 PHONE: 828-2200

OWNER: Horizon Vans CONTACT: Nick

ADDRESS: _____ PHONE: 828-9611

ARCHITECT: De La Torre Architects CONTACT: Nick

ADDRESS: 7801 Academy Road PHONE: 828-9611

SURVEYOR: Aldrich Land Surveyors CONTACT: Tim Aldrich

ADDRESS: _____ PHONE: 884-1990

CONTRACTOR: _____ CONTACT: _____

ADDRESS: _____ PHONE: _____

TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☒ DRAINAGE PLAN
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☒ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION
- ☐ OTHER

PRE-DESIGN MEETING:

- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SKETCH PLAT APPROVAL
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D APPROVAL
- ☐ S. DEV. PLAN FOR BLDG PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☐ FOUNDATION PERMIT APPROVAL
- ☒ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATION OF OCCUPANCY APPROVAL
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ S.A.D. DRAINAGE REPORT
- ☐ DRAINAGE REQUIREMENTS
- ☒ OTHER S.O. 19 (Specify)

DATE SUBMITTED: December 28, 1998

BY: David Soule
David Soule

