PUBLIC WORKS/HYDROLOGY

F17/D61K

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f17/D61K

25×10

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DRAINAGE INFORMATION SHEET

PROJECT TITLE: Kraft Foods ZONE ATLAS/DRNG. FILE #: F-17

LEGAL DESCRIPTION: Lot 3A, Jefferson Commons

CITY ADDRESS: Singer & N. Diversion Channel

ENGINEERING FIRM: D. Mark Goodwin & Assoc. P.A. CONTACT: Mark Goodwin, P.E.

ADDRESS: PO Box 90606 87199 PHONE: 828-2200

OWNER: Kraft Foods CONTACT: David Dekker

ADDRESS: 105 4th Street SW 87102 PHONE: 843-9639

ARCHITECT: Design Collaborative SW, Inc. CONTACT: David Dekker

ADDRESS: 105 4th Street SW 87102 PHONE: 843-9639

SURVEYOR: D. Mark Goodwin & Assoc. P.A. CONTACT: Richard Borgel, L.S.

ADDRESS: PO Box 90606 87199 PHONE: 828-2200

CONTRACTOR: N/A CONTACT: _____

ADDRESS: _____ PHONE: _____

PRE-DESIGN MEETING

_____ YES

__X__ NO

_____ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. _____

EPC NO. _____

PROJ. NO. _____

TYPE OF SUBMITTAL:

_____ DRAINAGE REPORT

__X__ DRAINAGE PLAN

_____ CONCEPTUAL GRADING & DRAINAGE PLAN

__X__ GRADING PLAN

_____ EROSION CONTROL PLAN

_____ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

_____ SKETCH PLAT APPROVAL

_____ PRELIMINARY PLAT APPROVAL

_____ SITE DEVELOPMENT PLAN APPROVAL

_____ FINAL PLAT APPROVAL

__X__ BUILDING PERMIT APPROVAL

_____ FOUNDATION PERMIT APPROVAL

_____ CERTIFICATE OF OCCUPANCY APPROVAL

_____ ROUGH GRADING PERMIT APPROVAL

_____ GRADING/PAVING PERMIT APPROVAL

_____ OTHER _____ SPECIFY

RECEIVED
NOV 4 1991

DATE SUBMITTED: 11/1/91

BY: Mark Goodwin

Mark Goodwin, P.E.

25 x 10

0000 0000 1187

dmg D. Mark Goodwin & Associates, P.A.
Consulting Engineers and Surveyors
P.O. BOX 90606, ALBUQUERQUE, NM 87199
(505) 828-2200

RECEIVED
NOV 4 1991
HYDROLOGY DIVISION

November 1, 1991

Mr. Bernie Montoya
Public Works Department
City of Albuquerque
PO Box 1293
Albuquerque, NM 87103

Re: Kraft Foods, City File F-17/D61K

Dear Mr. Montoya:

Attached, please find a revised Drainage Plan and appropriate calculations for the referenced project. The composite C calculations and flow rate calculations are attached per your request.

We have clarified that the inlet to the outfall channel is a 6-foot curb opening. The proposed curb will act as a wingwall.

Since our responsibility with this project is only in providing a grading and drainage plan, we have passed on your concern regarding the Gas Company easement to the architect and the owner. Only a portion of the dumpster appears to be in the easement. We assume that the owner will resolve this issue with the Gas Company.

If you require further information, call us.

Sincerely,

D. MARK GOODWIN AND ASSOCIATES, P.A.

Mark Goodwin

Mark Goodwin, P.E.

DMG:kmj

25×

0000 0000 1188

dmg D. Mark Goodwin & Associates, P.A.
Consulting Engineers and Surveyors

NOV 4 1991

JOB Kraft Foods
SUBJECT Drainage
JOB NO. _____ SHEET 1 OF ____
BY MG DATE 10/29/91
CHECKED _____ DATE _____

Composite "C" Calculations

Treatment	C	A	CA
undeveloped	.40	1.15	0.46
Pavement	.95	.21	0.21
		1.36	.46

Composite "C" = 0.48

Landscaping	.25	0.16	.04
Roof	.90	0.36	.32
pavement	.95	0.84	.80
		1.36	1.16

Composite "C" = .85

25×10

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22.2

HYDROGRAPH COMPUTATION WORKSHEET

DATE 10/29/91
COMPUTED BY MG
CHECK BY

PROJECT Kraft Foods

LOCATION

ANALYSIS POINT # undeveloped

(DR. AREA) A = 1.36 ACRES

T_c 10 MIN

POINT RAINFALL 2.2 IN. FROM PLATE 22.2 D-1

CN = 83 FROM PLATES 22.2 C-2, 22.2 C-3

RUNOFF VOLUME R = .88 IN. FROM PLATE 22.2 C-4

COMPUTED T_p = 10 MIN. ($T_p = T_c$) (Rounded to even minute)

$q_p = \frac{45.4A}{T_p}$ = 6.17 CFS./INCH OF RUNOFF

$(R \times q_p) = Q_{peak}$ = 5.4 CFS

t(COLUMN)=(t/T_p) $t = T_p(t/T_p)$

$y = \frac{Q}{Q_{peak}}$ $Q = y(Q_{peak})$

Vol. = 4344 cu. Ft.

	(t/T_p)	t (min.)	y	Q (cfs)
1	0	0	0	0
2	.1		.03	
3	.2		.10	
4	.3		.190	
5	.4		.310	
6	.5		.470	
7	.6		.660	
8	.7		.820	
9	.8		.930	
10	.9		.990	
11	1.0		1.00	
12	1.1		.990	
13	1.2		.930	
14	1.3		.860	
15	1.4		.780	
16	1.5		.680	
17	1.6		.560	
18	1.7		.460	
19	1.8		.390	
20	1.9		.330	
21	2.0		.280	
22	2.2		.207	
23	2.4		.147	
24	2.6		.107	
25	2.8		.077	
26	3.0		.055	
27	3.2		.040	
28	3.4		.029	
29	3.6		.021	
30	3.8		.015	
31	4.0		.011	
32	4.5		.005	
33	5.0		.000	

PLATE 22.2 F-1

25×

HYDROGRAPH COMPUTATION WORKSHEET

DATE 10/29/91
COMPUTED BY MG
CHECK BY

PROJECT Kraft Foods

LOCATION

ANALYSIS POINT # Developed

(DR. AREA) A = 1.36 ACRES

T_c 10 MIN

POINT RAINFALL 2.2 IN. FROM PLATE 22.2 D-1

CN = 96 FROM PLATES 22.2 C-2, 22.2 C-3

RUNOFF VOLUME R = 1.8 IN. FROM PLATE 22.2 C-4

COMPUTED T_p = 10 MIN. ($T_p = T_c$ (Rounded to even minute))

$q_p = \frac{45.4A}{T_p}$ = 6.17 CFS./INCH OF RUNOFF

$(R \times q_p) = Q_{peak}$ = 11 CFS

t(COLUMN)=(t/T_p) $t=T_p(t/T_p)$

$y = \frac{Q}{Q_{peak}}$ $Q = y(Q_{peak})$

Vol = 8886 cu. Ft.

	(t/T_p)	t (min.)	y	Q (cfs)
1	0	0	0	0
2	.1		.03	
3	.2		.10	
4	.3		.190	
5	.4		.310	
6	.5		.470	
7	.6		.660	
8	.7		.820	
9	.8		.930	
10	.9		.990	
11	1.0		1.00	
12	1.1		.990	
13	1.2		.930	
14	1.3		.860	
15	1.4		.780	
16	1.5		.680	
17	1.6		.560	
18	1.7		.460	
19	1.8		.390	
20	1.9		.330	
21	2.0		.280	
22	2.2		.207	
23	2.4		.147	
24	2.6		.107	
25	2.8		.077	
26	3.0		.055	
27	3.2		.040	
28	3.4		.029	
29	3.6		.021	
30	3.8		.015	
31	4.0		.011	
32	4.5		.005	
33	5.0		.000	

PLATE 22.2 F-1

0000 0000 1191

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

November 8, 1991

Mark Goodwin
D. Mark Goodwin & Associates
P.O. Box 90606
Albuquerque, New Mexico 87199

RE: REVISED DRAINAGE PLAN FOR KRAFT FOODS (F-17/D61K) REVISION DATED NOVEMBER 1, 1991 RECEIVED NOVEMBER 4, 1991

Dear Mr. Goodwin:

Based on the information provided on your November 4, 1991 resubmittal, the above referenced site is approved for Building Permit.

If for some reason the Gas Company of New Mexico has a concern with the encroachment of the dumpster within their easement, your drainage plan will need to be revised.

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

If I can be of further assistance, please feel free to contact me at 768-2650.

Sincerely,

Bernie J. Montoya

Bernie J. Montoya, CE
Engineering Assistant

BJM:jc
WP+3013

25×

0000 0000 1192

City of Albuquerque
P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

October 31, 1991

Mark Goodwin, P.E.
D. Mark Goodwin & Associates
Post Office Box 90606
Albuquerque, New Mexico 87199

RE: DRAINAGE PLAN FOR KRAFT FOODS (F-17/D61K)
ENGINEER'S STAMP DATED OCTOBER 25, 1991

Dear Mr. Goodwin:

Based on the information provided on your submittal of October 25, 1991, listed are some concerns that will need to be addressed:

1. .21 acres of existing asphalt exist within the 1.36 acres. Your composite "C" does not reflect this.

2. On your resubmittal, please show all calculations pertaining to the "C" composite derived by the emergency rule and also all calculations for both flow rate (rational) and volume (S.C.S.).

3. Your plan drawing indicates some type of encroachment within the 30' access and drainage easement. If it is a Gas Company easement, you will need to get their approval for the encroachment (south of easement).

4. Will the 6" curb contain the runoff without any type of wing walls at the inlet?

If I can be of further assistance, please feel free to call me at 768-2650.

Cordially,

Bernie J. Montoya

Bernie J. Montoya, C.E.
Engineering Assistant

BJM/bsj
(WP+3013)

PUBLIC WORKS DEPARTMENT

Walter H. Nickerson, Jr., P.E.
Assistant Director Public Works

ENGINEERING GROUP

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER

25×

0000 0000 1193

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Kraft Foods — ZONE ATLAS/DRNG. FILE #: F-17 / D61 K

LEGAL DESCRIPTION: Lot 3A, Jefferson Commons — Midway Park Pl NE

CITY ADDRESS: Singer & N. Diversion Channel — 5631 ~~Singer Bd NE~~

ENGINEERING FIRM: D. Mark Goodwin & Assoc. P.A. — CONTACT: Mark Goodwin, P.E.

ADDRESS: PO Box 90606 87199 — PHONE: 828-2200

OWNER: Kraft Foods — CONTACT: David Dekker

ADDRESS: 105 4th Street SW 87102 — PHONE: 843-9639

ARCHITECT: Design Collaborative SW, Inc. — CONTACT: David Dekker

ADDRESS: 105 4th Street SW 87102 — PHONE: 843-9639

SURVEYOR: D. Mark Goodwin & Assoc. P.A. — CONTACT: Richard Borgel, L.S.

ADDRESS: PO Box 90606 87199 — PHONE: 828-2200

CONTRACTOR: N/A — CONTACT: _____

ADDRESS: _____ — PHONE: _____

PRE-DESIGN MEETING

_____ YES
__X__ NO
_____ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. _____
EPC NO. _____
PROJ. NO. _____

TYPE OF SUBMITTAL:

_____ DRAINAGE REPORT
__X__ DRAINAGE PLAN
_____ CONCEPTUAL GRADING & DRAINAGE PLAN
__X__ GRADING PLAN
_____ EROSION CONTROL PLAN
_____ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

_____ SKETCH PLAT APPROVAL
_____ PRELIMINARY PLAT APPROVAL
_____ SITE DEVELOPMENT PLAN APPROVAL
_____ FINAL PLAT APPROVAL
__X__ BUILDING PERMIT APPROVAL
_____ FOUNDATION PERMIT APPROVAL
_____ CERTIFICATE OF OCCUPANCY APPROVAL
_____ ROUGH GRADING PERMIT APPROVAL
_____ GRADING/PAVING PERMIT APPROVAL
_____ OTHER _____ SPECIFY

OCT 25 1991

DATE SUBMITTED: 10/25/91

BY: Mark Goodwin

Mark Goodwin, P.E.

25 x 10

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PLANS/PLATS ON FILE

FILE DESC: f17/D61K

PLANS/PLATS 1

25×10

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25×10