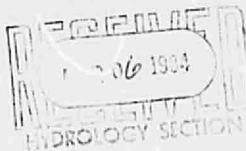


INFORMATION SHEET

PROJECT TITLE Parking Lot for NAPA Facility ^{Albuquerque} TYPE OF SUBMITTAL Drainage plan
ZONE ATLAS PAGE NO. J-14 CITY ADDRESS 1 2nd Street NW
LEGAL DESCRIPTION Lots 1 thru 8, Block 13, Paris Addition
ENGINEERING FIRM DMJM Adam Hamlyn Anderson CONTACT Jake Bordenave
ADDRESS 4055-A Montgomery Blvd. NE PHONE 881-1808
OWNER Genuine Parts Company CONTACT _____
ADDRESS 1510 2nd Street NW PHONE _____
ARCHITECT The Ken Hovey Design Group CONTACT Ken Hovey
ADDRESS 3700 Simms Avenue SE PHONE 255-4756
SURVEYOR _____ CONTACT _____
ADDRESS _____ PHONE _____
CONTRACTOR Farmer Corporation CONTACT Steve Henderson
ADDRESS 3535 Girard Blvd. NE PHONE 884-1366
DATE SUBMITTED MARCH 6 1984
BY Regi Rutar





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 23, 1984

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

Mr. Jake Bordenave
DMJM/Adam, Hamlyn, Anderson
4055 Montgomery Blvd. NE Suite A
Albuquerque, New Mexico 87109

RE: GRADING & DRAINAGE PLAN FOR PARKING LOT FOR NAPA
ALBUQUERQUE FACILITY (J14-D40) RECEIVED MARCH 6, 1984

Dear Jake:

I have reviewed the above referenced plan and forward the following comments:

- ✓ 1. The off-site flows have not been addressed.
- ✓ 2. What is the discharge rate from the site and how will it be achieved? The plan indicates a 4" sidewalk culvert but, there is no further mentioning of it. What is the head on this pipe? I cannot verify if it will work. Where are the emergency spillways? What do they look like?
3. The plan indicates that the site is adjacent to an alley. Approved alley grades are required.
4. The plan should have the legal description on it or the current plat should be provided.
5. An Erosion Control Plan should be provided for the period of construction.

Should you have any questions or comments, please contact me.

Yours truly,

Billy Goolsby, P.E.
City/County Flood Ordinance Administrator

BG/ca

MUNICIPAL DEVELOPMENT DEPARTMENT

C. C. Wayne Shipp, Jr., P.E., City Engineer

ENGINEERING DIVISION

Telephone (505) 766-7637

AN EQUAL OPPORTUNITY EMPLOYER

DENNEY - GROSS & ASSOCIATES, INC.

2400 COMANCHE ROAD N.E.

ALBUQUERQUE, N.M. 87107

TELEPHONE: (505) 884-0696

LETTER OF TRANSMITTAL

TO City of Albuquerque
Design Hydrology Section
123 Central N.W.
Albuquerque, New Mexico 87102

DATE	March 4, 1984	FD JOB NO.	733.11
ATTENTION	Billy Goolsby, P.E.		
REASON			

GENTLEMEN:**WE ARE SENDING YOU**☐ SHOP DRAWINGS☐ COPY OF LETTER☐ ATTACHED ☐ UNDER SEPARATE COVER VIA☐ PRINTS☐ CHANGE ORDER☐ PLANS☐ PROJECT ESTIMATE

THE FOLLOWING ITEMS:

☐ SPECIFICATIONS☒ Drainage Plans

COPIES	DATE	NO.	DESCRIPTION
2	4-4-84		Drainage Plan for Cooper-Griffin Water Service

THESE ARE TRANSMITTED as checked below.☐ FOR APPROVAL☐ FOR YOUR USE☐ AS REQUESTED☒ FOR REVIEW AND COMMENT ☐☐ FOR BIDS DUE☐ APPROVED AS SUBMITTED☐ APPROVED AS NOTED☐ RETURN _____ COPIES FOR DISTRIBUTION☐ RETURN _____ SIGNED ORIGINALS☐ 19 _____ ☐ PRINTS RETURNED AFTER LOAN TO US**REMARKS**

If you have any questions, please call our office at your convenience.

COPY TO _____

SIGNED: RTW Williams

Richard T. Williams, P.E.

RTW/cbk

IF ENCLOSURES ARE NOT AS NOTED, KINDLY NOTIFY US AT ONCE

DMJM/Adam, Hamlyn, Anderson

April 5, 1984
Mr. Billy Goolsby
City of Albuquerque, Hydrology
PO Box 1293
Albuquerque, NM 87103

Re: Grading & Drainage Plan for Parking Lot For NAPA
Albuquerque Facility (J14-D40)

Dear Sir:

The following are answers to your question regarding the subject site.

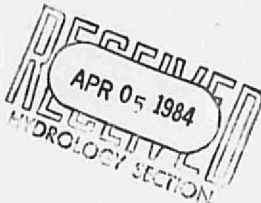
1. There is no offsite flow entering this site
2. Peak discharge rate from the site is 0.289 cfs with a maximum head of 0.48 feet and emergency spillways is the Drivepad located at the NW corner of the site.
3. A note has been added to the plans and the site shall not be accessible from the adjacent alley. The existing alley is approximately 1/2 foot above the finish floor of the adjacent building and I would rather not be responsible for setting grades and subjecting myself to the potential liability that could be incurred.
4. Legal description has been added to the plans.
5. A note regarding sequence of construction has been added to the plan, which will affect Erosion Control.

Sincerely,



Jean J. Bordenave, PE

JJB/cc1





CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION



HYDROLOGY SECTION PROJ. NO. _____ DATE: 4/13/84
PLANNING DIVISION NO. J14

CONFERENCE RECAP

SUBJECT: S.E. CORNER OF Constitution & 2nd St.
1510 2nd St N.W.

WHO	REPRESENTING
ATTENDANCE: <u>KEN NOBLE</u>	_____
<u>JOE BARON</u>	_____
<u>FRED J. AGUIRRE</u>	_____
_____	_____
_____	_____
_____	_____

FINDINGS:

1. DRAINAGE PLAN REQUIRED FOR THE PROPOSED IMPROVEMENTS per the DPM
 2. No ponding REQUIRED SINCE ^{the site} IS PRESENTLY IMPROVED
 3. ESTABLISH THE FINISH FLOOR ELEVATION BASED ON THE FLOODING SHOWN ON THE FLOODPLAIN MAPS - AO ZONE OF 1 ft depth.
 4. ADDRESS OFF-SITE FLOWS - OFF-SITE FLOWS MUST BE ACCEPTED ON-SITE AND ROUTED TO A PUBLIC R/W
 5. ROOF RUN-OFF MUST BE ROUTED THRU A DRIVEWAY OR THRU A CURB CUT IN ACCORDANCE WITH CONSTRUCTION WITHIN PUBLIC R/W EXCEPT
- The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED: Fred J. Aguirre

SIGNED: J. P. Barone

TITLE: _____

TITLE: DMJM/AHA

DATE: 4/13/84

DATE: 4/13/84

INFORMATION SHEET

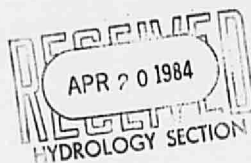
PROJECT TITLE NAPA TYPE OF SUBMITTAL Grading & Drainage Plan
 ZONE ATLAS PAGE NO. 3-14-2 CITY ADDRESS 1510 2nd St NW
 LEGAL DESCRIPTION LOT 'A', BLOCK 12, PARIS ADDITION
 ENGINEERING FIRM DMJM CONTACT Jake Bordewave
 ADDRESS 4055-A Montgomery PHONE 881-1808
 OWNER NAPA CONTACT —
 ADDRESS 1510 2nd St. NW PHONE —
 ARCHITECT Ken Hovey CONTACT Ken Hovey
 ADDRESS 3700 Simms SE PHONE 255-9400
 SURVEYOR — CONTACT —
 ADDRESS — PHONE —
 CONTRACTOR Farmer Corporation CONTACT Steve Henderson
 ADDRESS 3535 Girard Blvd PHONE 884-1366

PRE-DESIGN MEETING:

- ☒ YES
☐ NO
☒ COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

- ☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ SITE DEVELOPMENT PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY APPROVAL
☐ ROUGH GRADING PERMIT APPROVAL
☐ GRADING/PAVING PERMIT APPROVAL
☒ OTHER Foundation Only (SPECIFY)



DATE SUBMITTED: April 19, 1984
 BY: Regi Rusten



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

READING FILE

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

April 20, 1984

Mr. Jake Bordenave
DMJM/AHA
4055 Montgomery Blvd. NE
Albuquerque, New Mexico 87109

RE: REVISED GRADING & DRAINAGE PLAN FOR PARKING LOT FOR
NAPA ALBUQUERQUE FACILITIES (J14-D40) RECEIVED APRIL
5, 1984

Dear Jake,

The above referenced plan is approved. However, there is no revision date on the plan. Therefore, you and our inspector will have to ensure that this same plan is incorporated in the construction set prior to release of the building permit.

Also, please attach a copy of the appropriately approved "Construction Within Public R/W" document to the same set prior to sign-off.

If I can be of further assistance, please contact me.

Yours truly,

Billy J. Goolsby

Billy J. Goolsby, P.E.
City/County Flood Ordinance Administrator

BJG/ca

cc: Greg Olson

MUNICIPAL DEVELOPMENT DEPARTMENT

C. Dwayne Sheppard, P.E., City Engineer

ENGINEERING DIVISION

Telephone (505) 766-7467

AN EQUAL OPPORTUNITY EMPLOYER

DMJM/ Adam, Hamlyn, Anderson

Reply To: ☐ Phoenix, Arizona 85014
☒ Albuquerque, NM 87109

4751 North Fifteenth Street
4055 Montgomery Blvd. N.E.

602-264-1397
505-881-1808

LETTER OF TRANSMITTAL

TO: CITY OF ALBUQUERQUE

DATE: <u>4-26-84</u>	PROJECT NO.
PROJECT: <u>NAPA ADDITION</u>	
<u>1510 2nd St. N.W.</u>	

ATTN: Mr. FRED AGUIRAE

WE TRANSMIT:

☒ herewith ☐ under separate cover via _____
☐ in accordance with your request _____

FOR YOUR:

☒ approval ☐ distribution to parties ☐ information
☐ review & comment ☐ record
☐ use ☐ _____

THE FOLLOWING:

☒ prints ☐ copy of letter ☐ change order
☐ originals ☐ specifications ☐ calculations
☐ shop drawings ☐ _____

Copies	Dwg. No.	DESCRIPTION	Action Code
1		Grading & Drainage Plan	E.

APR 26 1984
HYDROLOGY SECTION

Action Code

A. REVIEWED
B. REVIEWED AS NOTED
C. REVISE & RESUBMIT
D. REJECTED
E. See REMARKS below

REMARKS: The site is in Zone 'C' see map 35002-0028
effective date 10-14-83. The off-site flows is the
area between the two existing Buildings on the EAST
side. This area is handled by regroding the west 1/2 to
flow east to 2nd Street. Any questions, please call

COPIES TO: file

If enclosures are not as noted,
please inform us immediately.

SIGNED: Charles Burns

INFORMATION SHEET

PROJECT TITLE NAPA TYPE OF SUBMITTAL Grading & Drainage Plan
 ZONE ATLAS PAGE NO. J-14- CITY ADDRESS 1510 2nd St. NW
 LEGAL DESCRIPTION Lot "A", Block 12, PARIS ADDITION
 ENGINEERING FIRM DMJM CONTACT JAKE BORDENAVE
 ADDRESS 4055-A Montgomery Blvd. NE PHONE 881-1808
 OWNER NAPA CONTACT _____
 ADDRESS 1510 2nd St. NW PHONE _____
 ARCHITECT Ken Hovey Design Group CONTACT Ken Hovey
 ADDRESS 3700 Simms Ave. SE PHONE 255-9400
 SURVEYOR -- CONTACT _____
 ADDRESS _____ PHONE _____
 CONTRACTOR Farmer Corporation CONTACT Steve Henderson
 ADDRESS 3535 Girard Blvd. PHONE 884-1366

PRE-DESIGN MEETING:

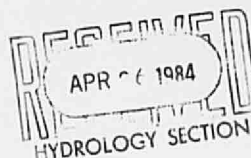
☒ YES
☐ NO
☒ COPY OF CONFERENCE RECAP SHEET PROVIDED

PLEASE CHECK TYPE OF APPROVAL EXPECTED WITH THIS SUBMITTAL:

☐ SKETCH PLAT APPROVAL
☐ PRELIMINARY PLAT APPROVAL
☐ SITE DEVELOPMENT PLAN APPROVAL
☐ FINAL PLAT APPROVAL
☐ BUILDING PERMIT APPROVAL
☐ CERTIFICATE OF OCCUPANCY APPROVAL
☐ ROUGH GRADING PERMIT APPROVAL
☐ GRADING/PAVING PERMIT APPROVAL
☒ OTHER Foundation Only (SPECIFY)

DATE SUBMITTED: _____

BY: _____





City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

May 3, 1984

Jake Bordenave
DMJM/Adam, Hamlyn, Anderson
4055-A Montgomery Boulevard NE
Albuquerque, NM 87112

REF: GRADING AND DRAINAGE PLAN FOR NAPA FACILITIES ADDITION (J14-D40)
RECEIVED APRIL 20, 1984

Dear Jake:

The above referenced plan is approved for foundation only. Subsequent
submittal for final building permit is understood to be forthcoming.

If you should have any further questions, please feel free to call
me at 766-7644.

Sincerely yours,

Billy G. Goolsby
Billy G. Goolsby, PE
City/County Flood Plain Admin.

BJG:mrk

MUNICIPAL DEVELOPMENT DEPARTMENT

C. Dwayne Sheppard, P.E., City Engineer

ENGINEERING DIVISION

Telephone (505) 766-7467

AN EQUAL OPPORTUNITY EMPLOYER

DMJM/AHA ALBUQUERQUE	PROJECT	NAPA FACILITY 1510 SECOND ST. NW ALBUQUERQUE, NEW MEXICO	PROJECT NO.	PAGE
	SUBJECT	DRAINAGE CALCULATIONS	BY: SFF	DATE: 2/29/84

ZONE ATLAS MAP NO. J-14

RAINFALL: 2.2 INCHES

OVERFLOW THROUGH DRIVEPAD (EMERGENCY SPILLWAY)

$$\begin{aligned}\text{DRIVEPAD CAPACITY} &= 2.6(25)(0.50)^{3/2} \\ &= 22.98 \text{ CFS}\end{aligned}$$

100 YEAR PEAK FLOW AFTER DEVELOPMENT

$$\begin{aligned}&= 0.6(A_4^{\text{in}})[2.9(0.47)]^{1/2} \\ &= 0.289 \text{ CFS @ TIME} = 120 \text{ MINUTES}\end{aligned}$$

100 YEAR PEAK FLOW BEFORE DEVELOPMENT

$$\begin{aligned}&= 0.40(4.65)(28400/43500) \\ &= 1.21 \text{ CFS @ TIME} = 10 \text{ MINUTES}\end{aligned}$$

DMJM/AHA ALBUQUERQUE SUBJECT	PROJECT	PROJECT NO.		PAGE 2
		BY:	DATE:	

MAXIMUM VOLUME IN STORAGE

TIME (MIN)	POND 1 (ft. ³)	POND 2 (ft. ³)	POND 3 (ft. ³)	SYSTEM (ft. ³)
5	71	66	84	221
10	119	124	195	438
15	277	321	474	1072
20	456	548	827	1831
25	428	600	1036	2064
30	374	628	1236	2238
40	274	527	1431	2232
50	194	536	1780	2510
60	143	512	2101	2756
80	8	138	2170	2366
100	2	79	2416	2497
120	4	3	2431	2443
150	1	3	2106	2110
180	1	5	1722	1728

STORAGE VOLUME PROVIDED

	POND 1 (ft. ³)	POND 2 (ft. ³)	POND 3 (ft. ³)	SYSTEM (ft. ³)
	426	633	2544	3603

DMJM/AHA ALBUQUERQUE SUBJECT	PROJECT	PROJECT NO.	PAGE 3
		BY:	

PAVEMENT POND NO 1

1. Effective area

4000	$\frac{C}{1.0}$	4000
5088	0.95	<u>4834</u>
		$\Sigma = 8834 \text{ ft}^2$

2. Rainfall: 2.2"

3. Pond Characteristics

Elevation	Area	Volume
57 ⁹⁰	2	14
58 ²	276	86
58 ¹⁰	1446	327
58 ²²	4000	<u>427</u>
		427 ft^2

4. Infiltration rate: 0

5. Weirs

1.0' wide @ 57⁹⁰

5.0' wide @ 58²²

***** BASIN ROUTING *****

DMJM/NM
4055 MONTGOMERY BLVD, NE
ALBUQUERQUE, NEW MEXICO 87109

PROJECT: NAPA - POND NO. 1
DATE: 02/29/84

EFFECTIVE AREA 8834 SQ.FT.
TOTAL RAINFALL 2.20 INCHES

STORAGE BASIN

ELEV	AREA SQ.FT.	VOLUME CU.FT.
57.90	2	0
58.00	276	13
58.10	1446	100
58.22	4000	426

INFILTRATION 1ST HALF HOUR = 0.00 IN./HR.
INFILTRATION 2ND HALF HOUR = 0.00 IN./HR.
INFILTRATION AFTER 1 HOUR = 0.00 IN./HR.

OUTLET INFORMATION:

WEIR

LENGTH FEET	INVERT ELEV.
1.00	57.90
5.00	58.22

TIME	RAINFALL	ACCUM. INFLOW	POND ELEV.	AVG. POND ELEV.	ACCUM. OUTFLOW	STORAGE
MIN.	INCHES	CUBIC FEET			CUBIC FEET	CUBIC FEET
0	0.000	0	57.900	57.900	0	0
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.069 CFS		20 CU.FT.		
5	0.125	92	58.078	57.989	20	71
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.224 CFS		67 CU.FT.		
10	0.281	207	58.112	58.075	88	119
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.315 CFS		94 CU.FT.		
15	0.624	459	58.177	58.145	182	277
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.433 CFS		129 CU.FT.		
20	1.045	769	58.227	58.202	312	456
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.482 CFS		144 CU.FT.		
25	1.203	885	58.220	58.223	457	428
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.456 CFS		136 CU.FT.		
30	1.315	968	58.206	58.213	594	374
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.409 CFS		245 CU.FT.		
40	1.513	1114	58.176	58.191	840	274
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.349 CFS		209 CU.FT.		
50	1.689	1243	58.148	58.162	1049	194

6

	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.299 CFS		179 CU.FT.		
60	1.865	1373	58.125	58.136	1229	143
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.153 CFS		184 CU.FT.		
80	1.931	1421	57.977	58.051	1413	8
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.038 CFS		45 CU.FT.		
100	1.986	1462	57.942	57.960	1459	2
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.027 CFS		32 CU.FT.		
120	2.032	1496	57.953	57.948	1492	4
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.022 CFS		39 CU.FT.		
150	2.083	1533	57.929	57.941	1532	1
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.013 CFS		24 CU.FT.		
180	2.116	1558	57.930	57.930	1556	1
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.011 CFS		19 CU.FT.		
210	2.142	1577	57.922	57.926	1576	0
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.008 CFS		14 CU.FT.		
240	2.162	1592	57.920	57.921	1591	0
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.006 CFS		23 CU.FT.		
300	2.193	1614	57.916	57.918	1614	0

DMJM/AHA ALBUQUERQUE SUBJECT	PROJECT	PROJECT NO.	PAGE
		BY:	DATE: 7

PAVEMENT POND NO. 2

1. Effective Area

	<u>C</u>	
4189	1.0	4189
4349	0.95	<u>4132</u>

$$E = 8321 \text{ ft}^2$$

2. Rainfall: 2.2"

3. Flows from Pond No. 1

Period	Flow	Accum. Flow
2	20	20
3	67	87
4	94	181
5	129	310
6	144	454
7	136	590
8	245	835
9	209	1044
10	179	1223
11	184	1407
12	45	1452
13	32	1484
14	39	1523
15	24	1547
16	19	1566
17	14	1580
18	23	1603

NOTE: FLOWS FROM POND 1 HAVE BEEN INCLUDED IN POND 2 CALCULATIONS. HOWEVER, LISTING OF FLOWS FROM POND 1 ARE NOT SHOWN ON COMPUTER PRINTOUT.

DMJM/AHA ALBUQUERQUE	PROJECT	PROJECT NO.		PAGE 8
		BY:	DATE:	
SUBJECT				

PAVEMENT POND NO. 2 (CONT)

4. Pond Characteristics

<u>Elevation</u>	<u>Area</u>	<u>Volume</u>
57 45	2	16
57 75	312	76
57 135	1211	196
57 95	2714	345
53 05	4189	
		<u>633 ft³</u>

5. Infiltration rate: 0

6 Weirs

1.0' wide @ 57 ~~45~~

5.0' wide @ 53 ~~05~~

9

 ** BASIN ROUTING **

DMJM/NM
 4055 MONTGOMERY BLVD, NE
 ALBUQUERQUE, NEW MEXICO 87109

PROJECT: NAPA - POND NO. 2
 DATE: 02/29/84

EFFECTIVE AREA 8321 SQ.FT.
 TOTAL RAINFALL 2.20 INCHES

STORAGE BASIN

ELEV	AREA SQ.FT.	VOLUME CU.FT.
57.65	2	0
57.75	312	15
57.85	1211	91
57.95	2714	288
58.05	4189	633

INFILTRATION 1ST HALF HOUR = 0.00 IN./HR.
 INFILTRATION 2ND HALF HOUR = 0.00 IN./HR.
 INFILTRATION AFTER 1 HOUR = 0.00 IN./HR.

OUTLET INFORMATION:

WEIR

LENGTH FEET	INVERT ELEV.
1.00	57.65
5.00	58.05

10

TIME	RAINFALL	ACCUM.	POND	AVG.	ACCUM.	STORAGE
MIN.	INCHES	CUBIC FEET	ELEV.	POND ELEV.	OUTFLOW CUBIC FEET	CUBIC FEET
0	0.000	0	57.650	57.650	0	0
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.068 CFS		20 CU.FT.		
5	0.125	86	57.827	57.738	20	66
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.233 CFS		70 CU.FT.		
10	0.281	215	57.873	57.850	90	124
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.360 CFS		108 CU.FT.		
15	0.624	520	57.962	57.917	198	321
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.528 CFS		158 CU.FT.		
20	1.045	905	58.029	57.995	357	548
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.622 CFS		186 CU.FT.		
25	1.203	1144	58.042	58.035	543	600
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.646 CFS		194 CU.FT.		
30	1.315	1366	58.048	58.045	737	628
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.623 CFS		374 CU.FT.		
40	1.513	1639	58.023	58.036	1112	527
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.000 CFS		0 CU.FT.		
	WEIR FLOW	0.596 CFS		357 CU.FT.		
50	1.689	2006	58.025	58.024	1470	536

11

			INFILTRATION		0 CU.FT.	
			ORIFICE FLOW	0.000 CFS	0 CU.FT.	
			WEIR FLOW	0.591 CFS	355 CU.FT.	
60	1.865	2337	58.019	58.022	1825	512
			INFILTRATION		0 CU.FT.	
			ORIFICE FLOW	0.000 CFS	0 CU.FT.	
			WEIR FLOW	0.457 CFS	548 CU.FT.	
80	1.931	2562	57.908	57.963	2374	188
			INFILTRATION		0 CU.FT.	
			ORIFICE FLOW	0.000 CFS	0 CU.FT.	
			WEIR FLOW	0.275 CFS	330 CU.FT.	
100	1.986	2784	57.839	57.873	2704	79
			INFILTRATION		0 CU.FT.	
			ORIFICE FLOW	0.000 CFS	0 CU.FT.	
			WEIR FLOW	0.123 CFS	148 CU.FT.	
120	2.032	2861	57.723	57.781	2853	8
			INFILTRATION		0 CU.FT.	
			ORIFICE FLOW	0.000 CFS	0 CU.FT.	
			WEIR FLOW	0.039 CFS	71 CU.FT.	
150	2.083	2928	57.699	57.711	2924	3
			INFILTRATION		0 CU.FT.	
			ORIFICE FLOW	0.000 CFS	0 CU.FT.	
			WEIR FLOW	0.033 CFS	60 CU.FT.	
180	2.116	2990	57.709	57.704	2984	5
			INFILTRATION		0 CU.FT.	
			ORIFICE FLOW	0.000 CFS	0 CU.FT.	
			WEIR FLOW	0.025 CFS	46 CU.FT.	
210	2.142	3032	57.682	57.696	3031	1
			INFILTRATION		0 CU.FT.	
			ORIFICE FLOW	0.000 CFS	0 CU.FT.	
			WEIR FLOW	0.017 CFS	32 CU.FT.	
240	2.162	3065	57.689	57.686	3063	2
			INFILTRATION		0 CU.FT.	
			ORIFICE FLOW	0.000 CFS	0 CU.FT.	
			WEIR FLOW	0.010 CFS	27 CU.FT.	
300	2.193	3100	57.660	57.675	3100	0
			INFILTRATION		0 CU.FT.	
			ORIFICE FLOW	0.000 CFS	0 CU.FT.	
			WEIR FLOW	0.007 CFS	26 CU.FT.	
360	2.200	3128	57.679	57.669	3126	1

MAXIMUM OUT FLOW IS AT POND ELEV. 58.048
ORIFICE OUTFLOW IS 0.000 CFS
WEIR OUTFLOW IS 0.654 CFS

12

DMJM/AHA ALBUQUERQUE SUBJECT	PROJECT	PROJECT NO.	PAGE
		BY:	DATE:

13

PAVEMENT POND NO. 3

1. Effective Area

6986	$\frac{C}{1.0}$	6986
1552	0.95	<u>1474</u>
		$\Sigma = 8460 \text{ ft}^2$

2. Rainfall: 2.2"

3. Flows from Pond No. 2

Period	Flow	Accum. Flow
2	20	20
3	70	90
4	108	198
5	158	356
6	186	542
7	194	736
8	374	1110
9	357	1467
10	355	1822
11	548	2370
12	330	2700
13	148	2848
14	71	2919
15	60	2979
16	46	3025
17	32	3057
18	37	3094

NOTE: FLOWS FROM POND 2 HAVE BEEN INCLUDED IN POND 3 CALCULATIONS. HOWEVER, LISTING OF FLOWS FROM POND 2 ARE NOT SHOWN ON COMPUTER PRINTOUT.

DMJM/AHA ALBUQUERQUE SUBJECT	PROJECT	PROJECT NO.	PAGE
		BY:	DATE: 14

PAVEMENT POND NO. 3 (CONT.)

4. Pond Characteristics

Elevation	Area	Volume
57 ³⁹	2	
57 ⁴⁹	576	29
57 ⁵⁹	2445	150
57 ⁶⁹	4160	329
57 ⁷⁹	4885	452
57 ⁸⁹	5934	541
57 ⁹⁹	6685	631
58 ⁰⁵	6986	410

2542 ft³

5. Infiltration rate: 0

6. Round orifice: 4" ϕ @ 57 ³⁹

7. Weir: 3.0' wide @ 58 ⁰⁵

15

 ** BASIN ROUTING **

DNJM/NM
 4055 MONTGOMERY BLVD, NE
 ALBUQUERQUE, NEW MEXICO 87109

PROJECT: NAPA - POND NO. 3
 DATE: 02/29/84

EFFECTIVE AREA 8460 SQ.FT.
 TOTAL RAINFALL 2.20 INCHES

STORAGE BASIN

ELEV	AREA SQ.FT.	VOLUME CU.FT.
57.39	2	0
57.49	576	28
57.59	2445	179
57.69	4160	510
57.79	4885	962
57.89	5934	1503
57.99	6685	2134
58.05	6986	2544

INFILTRATION 1ST HALF HOUR = 0.00 IN./HR.
 INFILTRATION 2ND HALF HOUR = 0.00 IN./HR.
 INFILTRATION AFTER 1 HOUR = 0.00 IN./HR.

OUTLET INFORMATION:

ROUND ORIFICE

DIAMETER INCHES	INVERT ELEV.
4.0	57.39

WEIR

LENGTH FEET	INVERT ELEV.
3.00	58.05

16

TIME	RAINFALL	ACCUM.	POND	AVG.	ACCUM.	STORAGE
MIN.	INCHES	CUBIC	ELEV.	POND	OUTFLOW	
		FEET		ELEV.	CUBIC	CUBIC
					FEET	FEET
0	0.000	0	57.390	57.390	0	0
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.012 CFS		3 CU.FT.		
	WEIR FLOW	0.000 CFS		0 CU.FT.		
5	0.125	88	57.542	57.466	3	84
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.063 CFS		19 CU.FT.		
	WEIR FLOW	0.000 CFS		0 CU.FT.		
10	0.291	218	57.596	57.569	22	195
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.112 CFS		33 CU.FT.		
	WEIR FLOW	0.000 CFS		0 CU.FT.		
15	0.624	530	57.681	57.638	56	474
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.170 CFS		51 CU.FT.		
	WEIR FLOW	0.000 CFS		0 CU.FT.		
20	1.046	934	57.761	57.721	107	827
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.200 CFS		60 CU.FT.		
	WEIR FLOW	0.000 CFS		0 CU.FT.		
25	1.203	1204	57.804	57.783	167	1036
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.217 CFS		65 CU.FT.		
	WEIR FLOW	0.000 CFS		0 CU.FT.		
30	1.315	1469	57.843	57.824	232	1236
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.231 CFS		138 CU.FT.		
	WEIR FLOW	0.000 CFS		0 CU.FT.		
40	1.513	1803	57.877	57.860	371	1431
	INFILTRATION			0 CU.FT.		
	ORIFICE FLOW	0.248 CFS		149 CU.FT.		
	WEIR FLOW	0.000 CFS		0 CU.FT.		
50	1.689	2301	57.935	57.906	521	1780

			INFILTRATION				0 CU.FT.	
			ORIFICE FLOW	0.266 CFS			160 CU.FT.	
			WEIR FLOW	0.000 CFS			0 CU.FT.	
60	1.865	2782	57.985	57.960	681	2101		
			INFILTRATION				0 CU.FT.	
			ORIFICE FLOW	0.276 CFS			332 CU.FT.	
			WEIR FLOW	0.000 CFS			0 CU.FT.	
80	1.931	3183	57.995	57.990	1013	2170		
			INFILTRATION				0 CU.FT.	
			ORIFICE FLOW	0.284 CFS			340 CU.FT.	
			WEIR FLOW	0.000 CFS			0 CU.FT.	
100	1.986	3770	58.031	58.013	1354	2416		
			INFILTRATION				0 CU.FT.	
			ORIFICE FLOW	0.289 CFS			347 CU.FT.	
			WEIR FLOW	0.000 CFS			0 CU.FT.	
120	2.032	4133	58.033	58.032	1701	2431		
			INFILTRATION				0 CU.FT.	
			ORIFICE FLOW	0.282 CFS			509 CU.FT.	
			WEIR FLOW	0.000 CFS			0 CU.FT.	
150	2.083	4316	57.985	58.009	2210	2106		
			INFILTRATION				0 CU.FT.	
			ORIFICE FLOW	0.265 CFS			477 CU.FT.	
			WEIR FLOW	0.000 CFS			0 CU.FT.	
180	2.116	4411	57.926	57.955	2498	1722		
			INFILTRATION				0 CU.FT.	
			ORIFICE FLOW	0.244 CFS			440 CU.FT.	
			WEIR FLOW	0.000 CFS			0 CU.FT.	
210	2.142	4489	57.865	57.895	3129	1360		
			INFILTRATION				0 CU.FT.	
			ORIFICE FLOW	0.221 CFS			398 CU.FT.	
			WEIR FLOW	0.000 CFS			0 CU.FT.	
240	2.162	4549	57.802	57.833	3527	1022		
			INFILTRATION				0 CU.FT.	
			ORIFICE FLOW	0.178 CFS			641 CU.FT.	
			WEIR FLOW	0.000 CFS			0 CU.FT.	
300	2.193	4603	57.671	57.736	4169	434		
			INFILTRATION				0 CU.FT.	
			ORIFICE FLOW	0.097 CFS			350 CU.FT.	
			WEIR FLOW	0.000 CFS			0 CU.FT.	
360	2.200	4645	57.565	57.618	4519	125		

MAXIMUM OUT FLOW IS AT POND ELEV. 58.033
ORIFICE OUTFLOW IS 0.290 CFS
WEIR OUTFLOW IS 0.000 CFS

18

CITY OF ALBUQUERQUE

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY



VICINITY MAP ITS
ZONE PLAT # J-14-Z

LOT #
BLOCK 12
PARIS ADDITION
BERNILLO COUNTY

OWNER:
GENUINE PARTS CO.



Permit # 15610

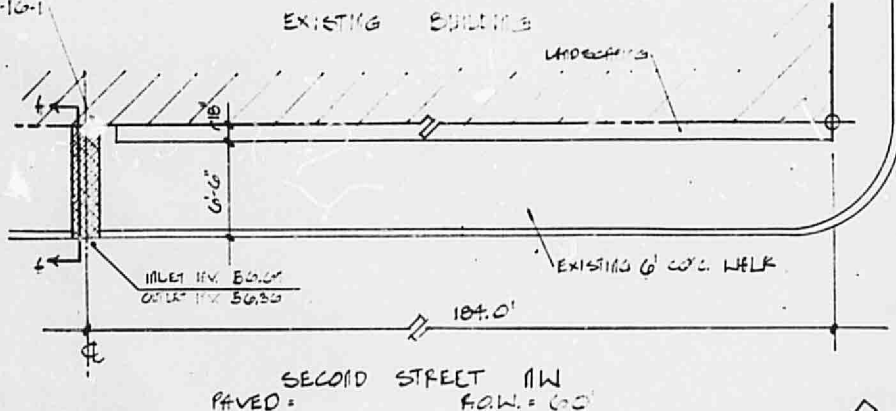
NOTICE TO CONTRACTOR

1. An excavation/construction permit will be required before beginning any work within City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.
2. All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with "Contract Documents for City-Wide Utilities and Cash Paving No. 84-1"
3. Two working days prior to any excavation, contractor must contact Line Locating Service, 765-1234, for location of existing utilities.
4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
5. Backfill compaction shall be according to arterial street use.

APPROVALS	NAME	DATE	TITLE:
A.C.E./DESIGN	<i>[Signature]</i>	09/26/84	Addition to NAPA Albuquerque Facility 1510 Second Street NW Albuquerque, N.M.
INSPECTOR	<i>[Signature]</i>	12-7-84	
A.C.E./FIELD	<i>[Signature]</i>	12-10-84	
			PERMIT NO. SHEET 1 OF 3
			MAP NO. J-14-Z

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY

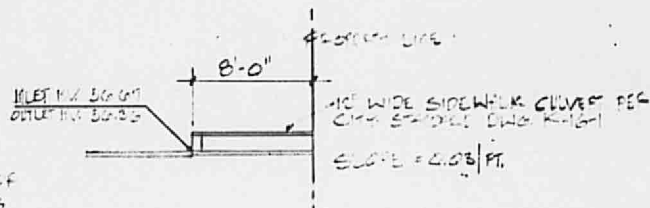
10' WIDE SIDEWALK CURVE
PER CITY STANDARD
K-10-1



SITE LOCATION MAP

LOT 4
BLOCK 10
NAPA FACILITY
BERNILLO COUNTY

REFERENCE CITY DATUM:
10-14 4950.194
TERMINAL BENCHMARK: FIRST FLOOR
EXISTING WITH 4950.194

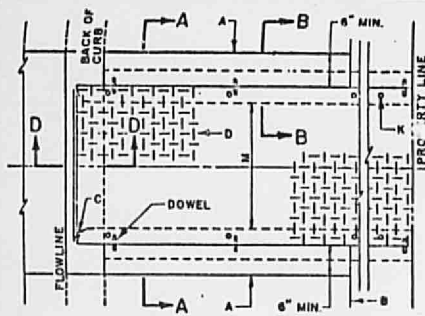


SECTION 4.4

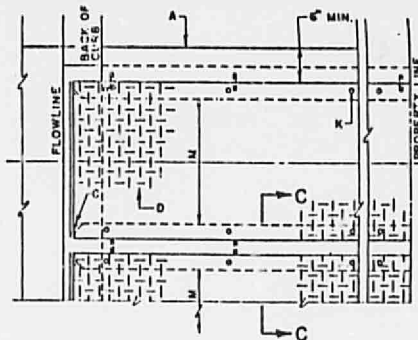


D-149

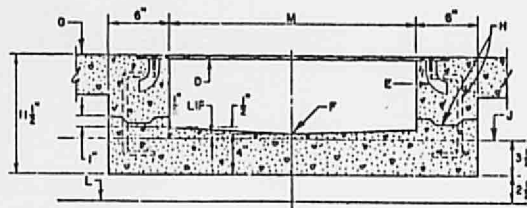
APPROVALS	NAME	DATE	TITLE:
A.C.E./DESIGN	<i>[Signature]</i>	09/26/84	Addition to NAPA Albuquerque Facility 1510 Second Street NW Albuquerque, N.M.
INSPECTOR	<i>[Signature]</i>	12-7-84	
A.C.E./FIELD	<i>[Signature]</i>	12-10-84	
PERMIT NO. SHEET 2 OF 3			MAP NO. J-14-Z



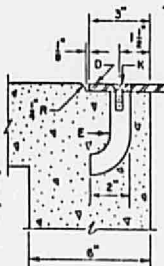
PLAN
SINGLE CULVERT



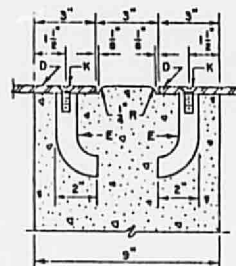
PLAN
MULTIPLE CULVERT



SECTION A-A



SECTION B-B



SECTION C-C



DOWEL DETAIL



SECTION D-D

GENERAL NOTES:

1. Placement of drain thru asphalt sidewalk, curb and gutter will require removal and replacement of entire stone sidewalk, curb and gutter as detailed herein.
2. Bottom slab of culvert shall be poured monolithically with new gutter.
3. The invert shall be trowled and retrowled to produce a hard polished surface of max. density and smoothness. V invert shall be V-shaped to within 3" of outlet and warped from this point to outlet. Invert of outlet shall parallel gutter flowline unless otherwise shown on plans.
4. Surface of all exposed concrete shall match the color, finish, and scoring of adjacent curb and sidewalk.
5. Sidewalk replaced during construction shall be poured monolithically with culvert walls.
6. Stainless steel rod anchors drilled and topped for flat head machine screws, spaced 24" o.c. max. and a min. of 2 per side per plate. There shall be an anchor with 6" of each end. Anchors shall be attached to the plate and the plate secured in place prior to pouring the concrete.
7. The culvert steel top plate shall be cut perpendicular to the walls unless otherwise specified. Lengths shall be such that the weight per plate does not exceed 300 lbs. It shall be stressed relieved after fabrication. After cleaning surface of scale, rust, etc., the plate and framing members shall be painted with one stop corrosion paint and two finish coats of aluminum paint (AASHTO M229).
8. Joint and Dowels optional. Dowels spaced 24" o.c. max. 1 1/2" min. clearance from face of concrete, may be included if necessary.
9. The City does not accept responsibility for maintenance for any drain lines installed by or for private property owners.

CONSTRUCTION NOTES:

- A. JOINT NEAREST SCORE LINE OR WEAKENED PLANT JOINT, PLACE 1/2" EXPANSION JOINT MATERIAL.
- B. SIDEWALK OR SLAB (K, VARIABLE).
- C. 3" RADIUS, (TYPICAL).
- D. CHECKERED STEEL PLATE CULVERT TOP.
- E. ROD ANCHOR 1" x 5'.
- F. V INVERT.
- G. SIDEWALK GRADE.
- H. DOWEL AND JOINT, (OPTIONAL).
- I. GUTTER FLOWLINE ELEV.
- J. 1" x 1" FH. C/SUNK STAINLESS STL. MACHINE SCREW.
- K. BOTTOM OF GUTTER.
- L. DRAIN WIDTH, 24" MAX. 12" MIN.
- M. SLOPE 1/4" PER FT. MIN.

CITY OF ALBUQUERQUE

DRAINAGE
SIDEWALK CULVERT
WITH STEEL PLATE TOP
DWG. K-16-1

REVISIONS
FEB 10-82

JAN 1982

CITY OF ALBUQUERQUE

DRAINAGE FACILITIES WITHIN CITY RIGHT-OF-WAY

*John
Guthrie*



2ND & KINLEY
SITE



REV. 5/9/84

SITE LOCATION MAP

LOTS 1-B, BLOCK 13
PARIS ADDITION
BERNALILLO COUNTY, N.M.

JH-D40



NOTICE TO CONTRACTOR

1. An excavation/construction permit will be required before beginning any work within City right-of-way. An approved copy of these plans must be submitted at the time of application for this permit.
2. All work detailed on these plans to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with "Contract Documents for City-Wide Utilities and Cash Paving No. 84-1"
3. Two working days prior to any excavation, contractor must contact Line Locating Service, 765-1234, for location of existing utilities.
4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
5. Backfill compaction shall be according to arterial street use.

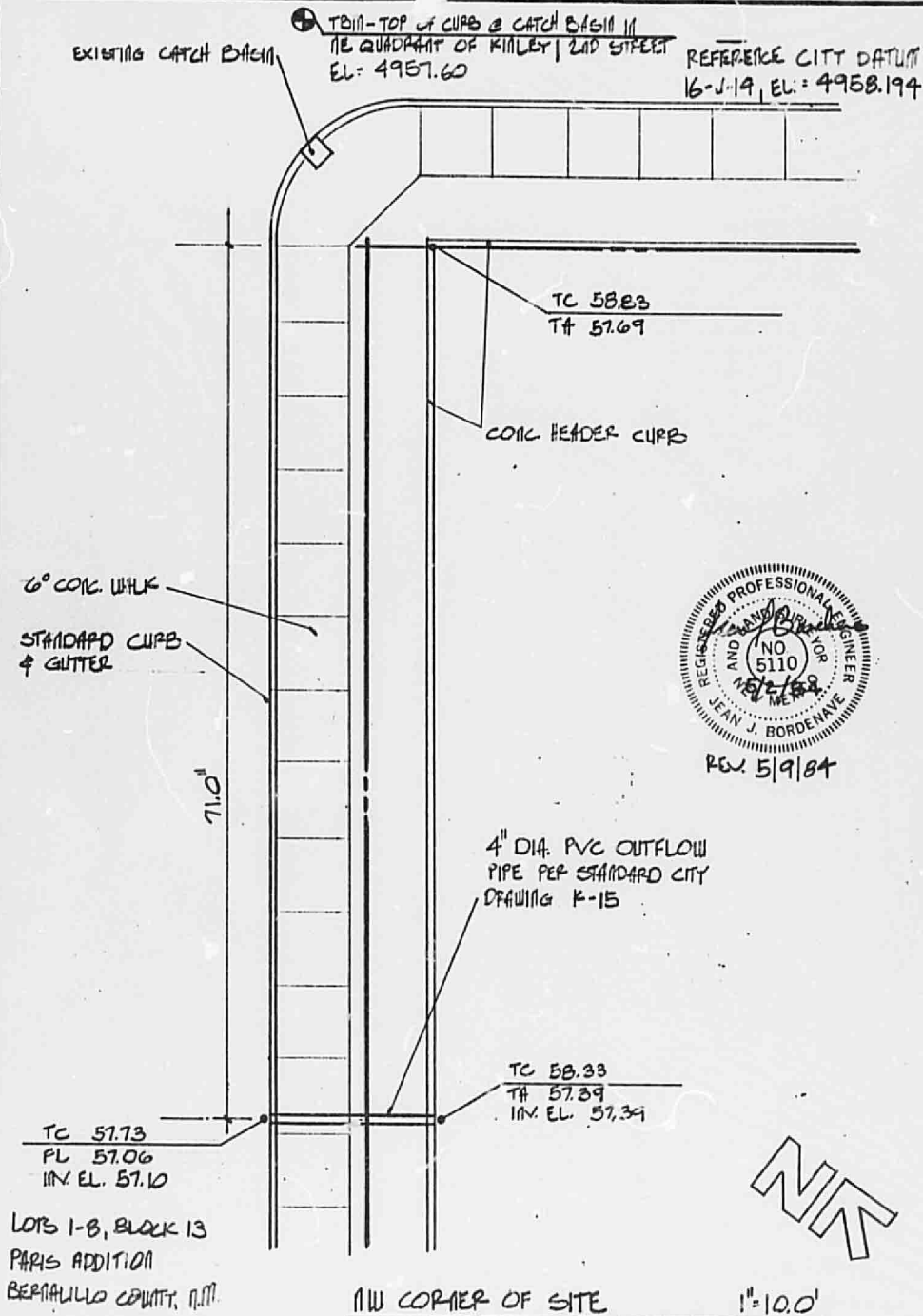
P-11408 Farmer Corp

D-74

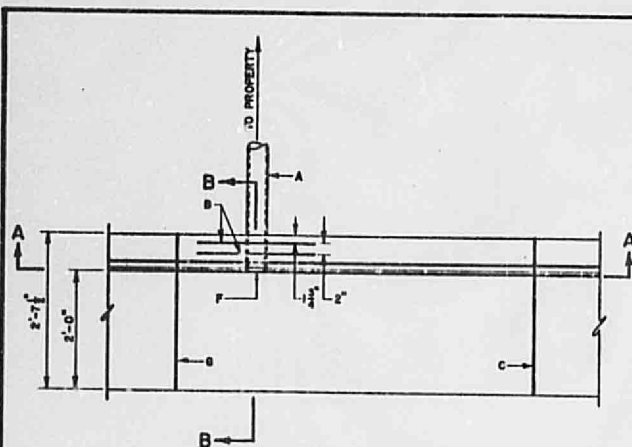
APPROVALS	NAME	DATE	TITLE:
A.C.E./DESIGN	<i>John Guthrie</i>	5/17/84	Parking Lot for NAPA Albuquerque Facility 1510 Second Street NW
INSPECTOR	<i>John Guthrie</i>	5/18/84	PERMIT NO.
A.C.E./FIELD	<i>John Guthrie</i>	5/21/84	SHEET 1 OF 2
			MAP NO. J-14

CITY OF ALBUQUERQUE

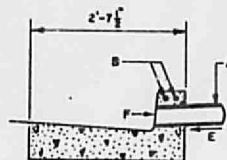
DRAINAGE FACILITIES WITH CITY RIGHT-OF-WAY



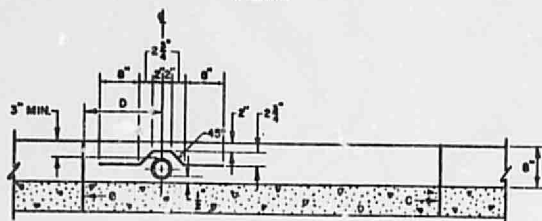
APPROVALS	NAME	DATE	TITLE:
A.C.E./DESIGN	<i>J.R. Ochoa</i>	5/12/84	Parking Lot for NAPA Albuquerque Facility 1510 Second Street NW
INSPECTOR	<i>Jeffrey</i>	5/19/84	PERMIT NO.
A.C.E./FIELD	<i>W. J. ...</i>	5/21/84	SHEET 2 OF 2
			MAP NO. J-14



PLAN



SECTION B-B



SECTION A-A

GENERAL NOTES:

1. WHEN PLACING DRAIN THROUGH EXISTING CURB, REMOVE AND REPLACE ENTIRE STONE OF CURB AND GUTTER.
2. THE CITY DOES NOT ACCEPT RESPONSIBILITY FOR MAINTENANCE FOR ANY DRAIN LINES INSTALLED BY OR FOR PRIVATE PROPERTY OWNERS.

CONSTRUCTION NOTES:

- A. DRAIN, D.I. OR SCH. 40 F.V.C. PIPE, 4" NOM. SIZE (MAX.) TO PROPERTY.
- B. 2-NO. 3 BARS, 2'-4" LONG, PLACED AS SHOWN.
- C. COLD JOINT.
- D. DISTANCE FROM C. TO DRAIN TO NEAREST JOINT, VARIABLE, WITH 18" MIN.
- E. SLOPE $\frac{1}{4}$ " PER FT. WITHIN R.O.W.
- F. DRAIN PIPE NOT TO PROTRUDE BEYOND CURB FACE.
- G. JOINT NEAREST TO DRAIN " " BE AN EXPANSION JOINT.

REVISIONS	CITY OF ALBUQUERQUE
	DRAINAGE
	DRAIN LINE THROUGH CURB
	DWG. K-15 JAN. 1981

41-8