

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

March 15, 1994

Jeff Mortensen
Jeff Mortensen & Associates Inc.
6010-B Midway Park Blvd. NE
Albuquerque, NM 87109

RE: GRADING/DRAINAGE PLAN FOR HAZELDINE PARK (K14-D59)
ENGINEER'S STAMP DATED 3/5/94.

Dear Mr. Mortensen:

Based on the information provided on your March 7, 1994 submittal, the above referenced site is approved for Grading Permit.

If I can be of further assistance, please feel free to contact me at 768-2667.

Sincerely,

Bernie J. Montoya, CE
Engineering Associate

BJM/d1/WPHYD/8382

c: Andrew Garcia
File

940211

PROJECT TITLE: Hazeldine Park ZONE ATLAS/DRNG. FILE #: K14/D59

RB #: _____ EPC #: _____ WORK ORDER #: _____

LEGAL DESCRIPTION: North 1/2 of Lots 11 thru 14, Block 4 of the Atlantic and Pacific Addition

PROPERTY ADDRESS: Southeast corner of Hazeldine AVE & 3rd Street, S.E.

ENGINEERING FIRM: Jeff Mortensen & Assoc. Inc. CONTACT: Michele F. DeGilla

ADDRESS: 6010-B Midway Park Blvd N.E. PHONE: 345-4250

OWNER: C.O.A. CONTACT: COPA

ADDRESS: _____ PHONE: _____

ARCHITECT: Campbell, Okuma, Perkins & Assoc. (COPA) CONTACT: Bill Perkins

ADDRESS: 418 Central SE PHONE: 242-9928

SURVEYOR: C.O.A. CONTACT: COPA

ADDRESS: _____ PHONE: _____

CONTRACTOR: N/A 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
- ☐ CERTIFICATE OF OCCUPANCY APPROVAL
- ☒ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ S.A.D. DRAINAGE REPORT
- ☐ DRAINAGE REQUIREMENTS
- ☐ OTHER _____ (SPECIFY)

DATE SUBMITTED: 3/7/94

BY: Michele (Mike) DeGilla

MAR - 7 1994

LEGAL DESCRIPTION

THE NORTH 1/2 OF LOTS 11 THRU
14, BLOCK H OF THE ATLANTIC
AND PACIFIC ADDITION

LEGEND

- TC TOP OF CURB
 NEW CMU WALL
 PROPOSED CONCRETE
 PROPOSED SPOT ELEV.
 NEW CHAIN LINK FENCE
 EXISTING SPOT ELEV.
 TOP OF WALL
 EXISTING STORM INLET

DRAINAGE PLAN

The following items concerning the Hazeldine Park Grading & Drainage Plan are contained hereon:

1. Vicinity Map
2. Grading Plan
3. Calculations

As shown by the Vicinity Map, the site is located at the southeast corner of Third Street S.W. and Hazeldine Avenue S.W. At present, the site is a park with concrete surfaces and a sand play area with swings. The park has adobe walls on the south and east sides of the site. Improvements to the site will include the regrading of the park, along with associated concrete removal and replacement for a basketball court along with benches and a shade structure. Free discharge for this site is appropriate, because it lies in an infill area, is already developed, it maintains its historical drainage pattern, and the negligible increase in developed runoff.

As shown on Panel 28 of 50 of the National Flood Insurance Program Flood Insurance Rate Maps for the City of Albuquerque, New Mexico, dated October 14, 1983, this site does not lie within a designated flood hazard zone. A flood hazard zone designated Zone B lies approximately 1050 feet west of the site. At present, the site drains onto Hazeldine Avenue S.W. and Third Street S.W. which then drains into an existing storm inlet located on Hazeldine on the southeast corner of the intersection of Third Street S.W. and Hazeldine Avenue S.W.

The Grading and Drainage Plan shows: 1) existing and proposed grades indicated by spot elevations, 2) limit and character of the existing improvements, 3) limit and character of the proposed improvements, and 4) continuity between existing and proposed grades. The developed site will be characterized as one basin which will drain onto Third Street S.W. and Hazeldine Avenue S.W. No offsite flows will enter from the north and west because developed streets lie on those sides. Grades on the south and east sides of the site are "flat" so no offsite flows will enter from those sites.

The Calculations which appear hereon analyze both the existing and developed conditions for the 100-year, 6-hour rainfall event. The Procedure for 40-acre and Smaller Basins, as set forth in the Revision of Section 22.2, Hydrology of the Development Process Manual, Volume 2, Design Criteria, dated January, 1993, has been used to quantify the peak rate of discharge and volume of runoff generated. As shown by these calculations, the proposed development will result in a small increase in runoff generated.

CALCULATIONS

Site Characteristics

1. Precipitation Zone = 2
2. $P_{6,100} = P_{60} = 2.35$ in.
3. Total Area (A_T) = 0.115 Acres
4. Existing Land Treatment

Treatment	Area (sf/ac)	%
B	2,789/0.064	55.7
D	2,221/0.051	44.3

5. Developed Land Treatment

Treatment	Area (sf/ac)	%
B	1,176/0.027	23.5
D	3,834/0.088	76.5

Existing Condition

1. Volume

$$E_w = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$$

$$E_w = [(0.78)(0.064) + (2.12)(0.051)] / (0.115) = 1.37 \text{ in.}$$

$$V_{100} = (E_w / 12) A_T$$

$$V_{100} = (1.37 / 12) (0.115) = 0.0132 \text{ ac.ft.}; 574 \text{ cf}$$

2. Peak Discharge

$$Q_D = Q_{PA} A_A + Q_{PB} A_B + Q_{PC} A_C + Q_{PD} A_D$$

$$Q_D = Q_{100} = (2.28)(0.064) + (4.70)(0.051) = 0.4 \text{ cfs}$$

Developed Condition

1. Volume

$$E_w = (E_A A_A + E_B A_B + E_C A_C + E_D A_D) / A_T$$

$$E_w = [(0.78)(0.027) + (2.12)(0.088)] / (0.115) = 1.81 \text{ in.}$$

$$V_{100} = (E_w / 12) A_T$$

$$V_{100} = (1.81 / 12) (0.115) = 0.0173 \text{ ac.ft.}; 754 \text{ cf}$$

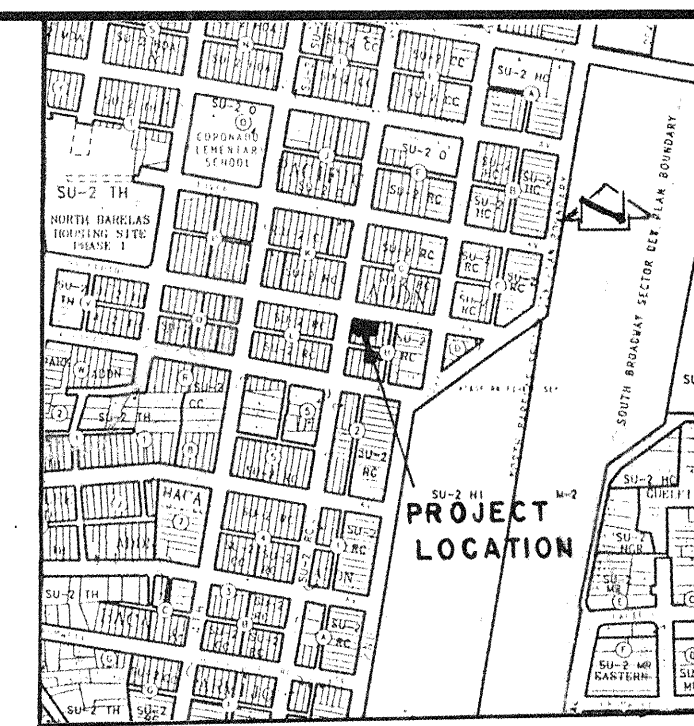
2. Peak Discharge

$$Q_D = Q_{PA} A_A + Q_{PB} A_B + Q_{PC} A_C + Q_{PD} A_D$$

$$Q_D = Q_{100} = (2.28)(0.027) + (4.70)(0.088) = 0.5 \text{ cfs}$$

Comparison

1. $\Delta V_{100} = 754 - 574 = 180 \text{ cf (increase)}$
2. $\Delta Q_{100} = 0.5 - 0.4 = 0.1 \text{ cfs (increase)}$



VICINITY MAP
SCALE: 1" = 750'

Construction Notes:

1. Two (2) working days prior to any excavation, contractor must contact New Mexico One Call System 260-1990, for location of existing utilities.
2. Prior to construction, the contractor shall excavate and verify the horizontal and vertical location of all potential obstructions. Should a conflict exist, the contractor shall notify the engineer in writing so that the conflict can be resolved with a minimum amount of delay.
3. All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning construction safety and health.
4. All construction within public right-of-way shall be performed in accordance with applicable City of Albuquerque Standards and Procedures.
5. If any utility lines, pipelines, or underground utility lines are shown on these drawings, they are shown in an approximate manner only, and such lines may exist where none are shown. If any such existing lines are shown, the location is based upon information provided by the owner of said utility, and the information may be incomplete, or may be obsolete by the time construction commences. The engineer has conducted only preliminary investigation of the location, depth, size, or type of existing utility lines, pipelines, or underground utility lines. This investigation is not conclusive, and may not be complete, therefore, makes no representation pertaining thereto, and assumes no responsibility or liability therefor. The contractor shall inform itself of the location of any utility line, pipeline, or underground utility line in or near the area of the work in advance of and during excavation work. The contractor is fully responsible for any and all damages caused by its failure to locate, identify and preserve any and all existing utilities, pipelines, and underground utility lines. In planning and conducting excavation, the contractor shall comply with state statutes, municipal and local ordinances, rules and regulations, if any, pertaining to the location of these lines and facilities.
6. The design of planters and landscaped areas is not part of this plan. All planters and landscaped areas adjacent to the building(s) shall be provided with positive drainage to avoid any ponding adjacent to the structure. For construction details, refer to landscaping plan.
7. This is not a Boundary Survey; all survey data provided by C.O.A. Survey Section, Public Works Department.

Erosion Control Measures:

1. The contractor shall ensure that no soil erodes from the site into public right-of-way or onto private property. This can be achieved by constructing temporary berms at the property lines and wetting the soil to keep it from blowing.
2. The contractor shall promptly clean up any material excavated within the public right-of-way so that the excavated material is not susceptible to being washed down the street.
3. The contractor shall secure "Topsoil Disturbance Permit" prior to beginning construction.

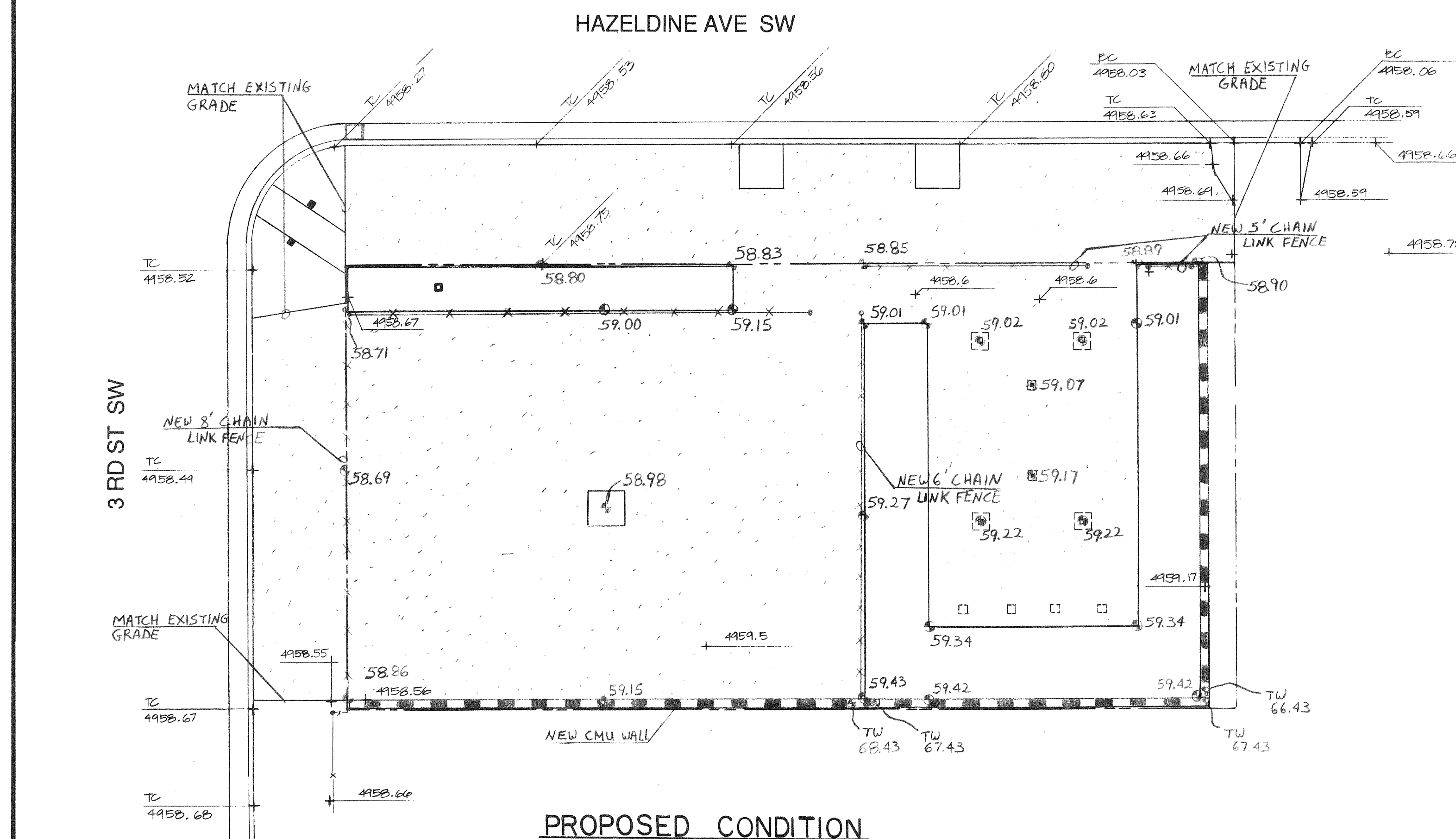
Campbell Okuma Perkins Associates, Inc.
Landscape Architecture and Site Planning
418 Central S.E. 1339 Pacheco No. 8
Albuquerque, NM 87102 Santa Fe, NM 87501
(505) 242-9925 (505) 962-8399

CITY OF ALBUQUERQUE
PARKS / GENERAL SERVICES
DESIGN & DEVELOPMENT

TITLE: HAZELDINE PARK

GRADING AND DRAINAGE PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY					
PARKS					
PROJECT NO.	MAP NO. K-14		SHEET	OF 1	



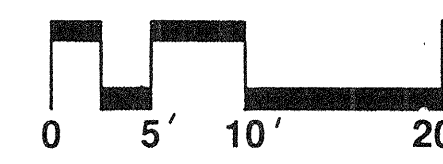
JMA
JEFF MORTENSEN & ASSOCIATES, INC.
600 S. MIDWAY PARK BLVD. NE
ALBUQUERQUE, NM 87109
ENGINEERS & SURVEYORS (505) 345-4250

940211

RECEIVED
MAR - 7 1994
HYDROLOGY DIVISION



NORTH



SCALE: 1" = 10'-0"



DESIGNED BY: M.F.D. DATE: 3/94
DRAWN BY: C.O.P.A./J.M.A. DATE: 3/94
CHECKED BY: J.G.M. DATE: 3/94