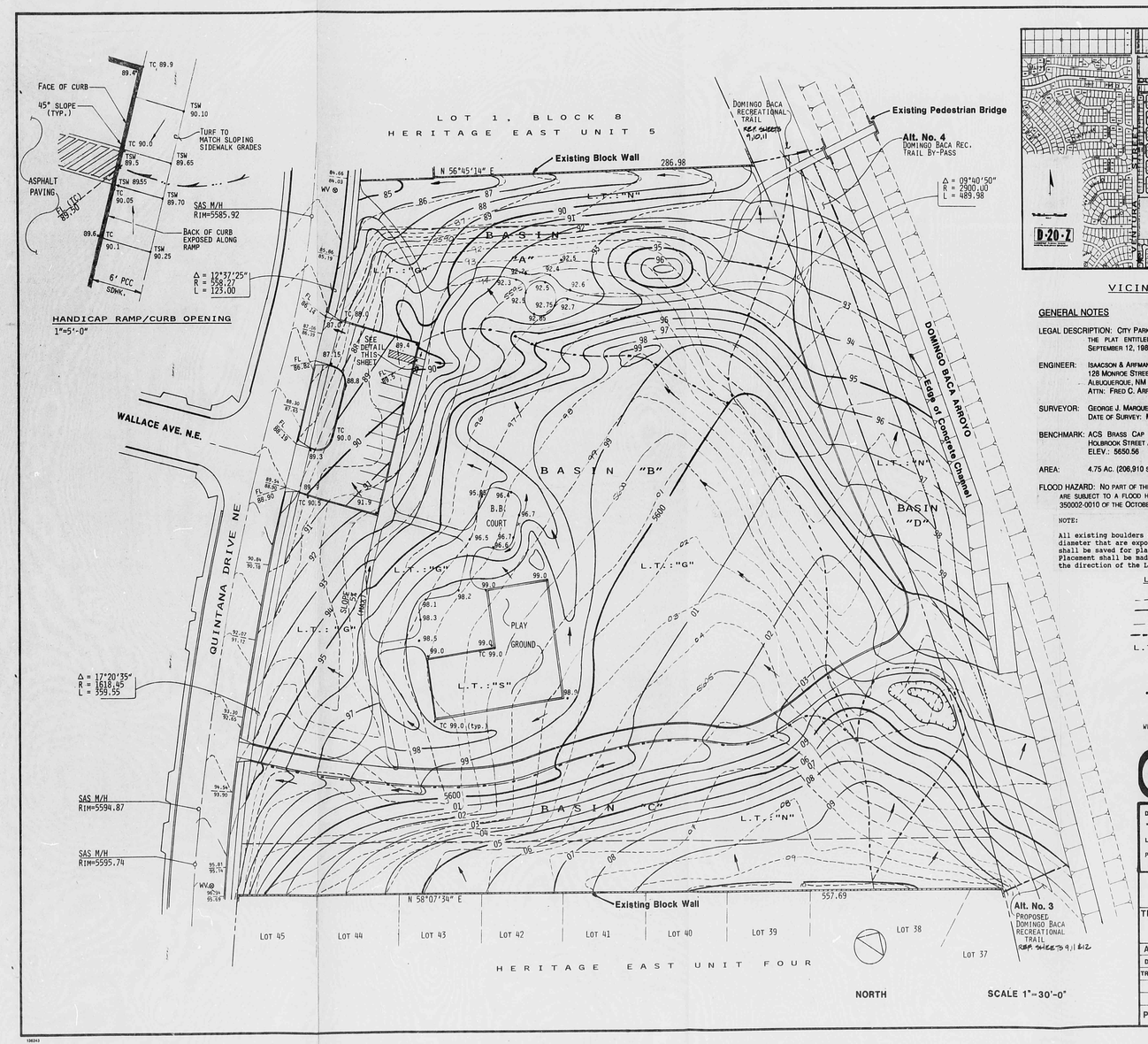
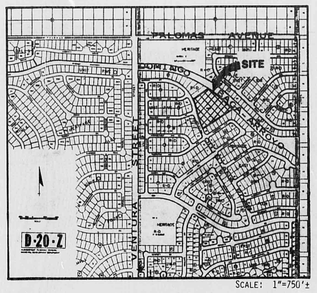
PUBLIC WORKS/HYDROLOGY

D20/D3B1




HANDICAP RAMP/CURB OPENING
1"=5'-0"




SCALE: 1"=50'±

VICINITY MAP

GENERAL NOTES

LEGAL DESCRIPTION: City Park in Heritage East Unit Four as found on the plat entitled Heritage East Unit Four, filed on September 12, 1985, in Book C-28, Pg. 56.

ENGINEER: Isaacson & Arfman, P.A.
128 Monroe Street, NE
Albuquerque, NM 87108
Attn: Fred C. Arfman, P.E.

SURVEYOR: George J. Marquez, N.M.P.S. No. 10283
Date of Survey: March 5, 1990

BENCHMARK: ACS Brass Cap "5-D21" situated within the R.O.W. of Holbrook Street at the intersection of Giddings Avenue. Elev.: 5650.56

AREA: 4.75 Ac. (206,910 sq. ft.)

FLOOD HAZARD: No part of this park nor the adjacent public roadways are subject to a flood hazard area as determined by Panel No. 350002-0010 of the October 14, 1983, edition of the F.E.M.A. Maps

NOTE:

All existing boulders of a size greater than 18" in diameter that are exposed during the grading process shall be saved for placement at the project site. Placement shall be made by the Contractor at the direction of the Landscape Architect.

LEGEND

- Existing contours
- Proposed contours
- Drainage basin boundary
- Project boundary limits
- L.T.:" " Landscape treatment
  - "N" - Natural
  - "S" - Sand
  - "G" - Grass
- •98.5 Proposed spot elevation
- Flowline elevation
- HC ramp
- WV ⊗ Existing water valve

Isaacson & Arfman, P.A.
Consulting Engineering Associates
Albuquerque, New Mexico

DENNIS C. WILKINSON AND ASSOCIATES, P.C.
DCW
LANDSCAPE ARCHITECTURE-DEVELOPMENT PLANNING
P.O. BOX 1542 505/897-7430
CORRALES, NEW MEXICO 87048

CITY OF ALBUQUERQUE
PARKS & RECREATION
DESIGN & DEVELOPMENT

TITLE: **ROTARY PARK AT HERITAGE EAST**
**GRADING & DRAINAGE PLAN**

| APPROVALS | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|---|---|---|---|---|---|
| DRC CHAIRMAN | | | WATER | | |
| TRANSPORTATION | | | WASTE WATER | | |
| HYDROLOGY | | | | | |
| PARKS | | | | | |

PROJECT NO. 4371.90 | MAP NO. D-20 | SHEET 1 OF 12

AS BUILT INFORMATION
CONTRACTOR — DATE:
INSPECTOR'S APPROVAL — DATE:
FIELD VERIFICATION BY — DATE:
DRAWING CORRECTED BY — DATE:
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARK
ACS BRASS CAP "5-D21"
R.O.W. OF HOLBROOK STREET AT THE INTERSECTION OF GIDDINGS AVENUE.
ELEVATION: 5650.56

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
FRED C. ARFMAN
NEW MEXICO
NOV 12 1991

| NO. | DATE | REVISIONS | BY | REMARKS |
|---|---|---|---|---|
| | | | | |

DESIGNED BY: FCA DATE: 8/91
DRAWN BY: NV DATE: 8/91
CHECKED BY: STF DATE: 8/91

REV. SHEETS 9, 11 & 12

REV. 24 DATE 3-15-02 OP. 8

CITY OF ALBUQUERQUE

This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the Public Works Department and was created in the normal course of business.

The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS1A-1977)

DIRECTOR

NOTARY PUBLIC

OFFICIAL SEAL
Roberta Duran
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires 07/07/2002

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

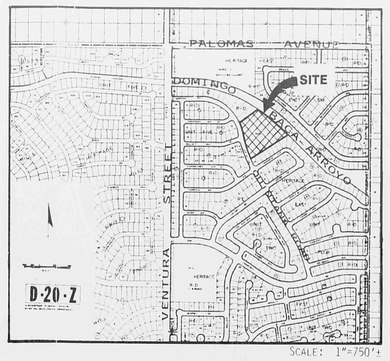
CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

PLANS/PLATS ON FILE

FILE DESC: D20/D3B1

# PLANS/PLATS 1

E D C B A CITY OF ALBUQUERQUE C D E




VICINITY MAP

## GENERAL NOTES

LEGAL DESCRIPTION: CITY PARK IN HERITAGE EAST UNIT FOUR AS FOUND ON THE PLAT ENTITLED HERITAGE EAST UNIT FOUR, FILED ON SEPTEMBER 12, 1985, IN BOOK C-28, PG. 56.

ENGINEER: ISAACSON & ARFMAN, P.A.
128 MONROE STREET, NE
ALBUQUERQUE, NM 87108
ATTN: FRED C. ARFMAN, P.E.

SURVEYOR: GEORGE J. MARQUEZ, N.M.P.S. No. 10283
DATE OF SURVEY: MARCH 5, 1990

BENCHMARK: ACS BRASS CAP "5-D21" SITUATED WITHIN THE R.O.W. OF HOLBROOK STREET AT THE INTERSECTION OF GIDDINGS AVENUE. ELEV.: 5650.56

AREA: 4.75 AC. (206,910 SQ. FT.)

FLOOD HAZARD: NO PART OF THIS PARK NOR THE ADJACENT PUBLIC ROADWAYS ARE SUBJECT TO A FLOOD HAZARD AREA AS DETERMINED BY PANEL NO. 350002-0010 OF THE OCTOBER 14, 1983, EDITION OF THE F.E.M.A. MAPS

NOTE:

All existing boulders of a size greater than 18" in diameter that are exposed during the grading process shall be saved for placement at the project site. Placement shall be made by the Contractor at the direction of the Landscape Architect.

LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- DRAINAGE BASIN BOUNDARY
- PROJECT BOUNDARY LIMITS
- L.T.:" " LANDSCAPE TREATMENT
  - "N" - NATURAL
  - "S" - SAND
  - "G" - GRASS
- •98.5 PROPOSED SPOT ELEVATION
- FLOWLINE ELEVATION
- HC RAMP
- WV ⊗ EXISTING WATER VALVE

Isaacson & Arfman, P.A.
CONSULTING ENGINEERING ASSOCIATES
Albuquerque, New Mexico

DENNIS C. WILKINSON AND ASSOCIATES, P.C.
DCW
LANDSCAPE ARCHITECTURE-DEVELOPMENT PLANNING
P.O. BOX 1542 505/897-7430
CORRALES, NEW MEXICO 87048

CITY OF ALBUQUERQUE
PARKS & RECREATION
DESIGN & DEVELOPMENT

TITLE: **ROTARY PARK AT HERITAGE EAST**
**GRADING & DRAINAGE PLAN**

| APPROVALS | ENGINEER | DATE | APPROVALS | ENGINEER | DATE |
|---|---|---|---|---|---|
| DRC CHAIRMAN | | | WATER | | |
| TRANSPORTATION | | | WASTE WATER | | |
| HYDROLOGY | | | | | |
| PARKS | | | | | |

PROJECT NO. 4371.90 | MAP NO. D-20 | SHEET 1 OF 12

SURVEY INFORMATION

| NO. | FIELD NOTES BY | DATE |
|---|---|---|
| | | |

BENCH MARK
ACS BRASS CAP "5-D21" SITUATED WITHIN THE RIGHT-OF-WAY OF HOLBROOK STREET AT THE INTERSECTION OF GIDDINGS AVENUE.
ELEVATION: 5650.56

AS BUILT INFORMATION

| | |
|---|---|
| CONTRACTOR | |
| WORK STAKED BY | DATE: |
| INSPECTORS APPROVAL | DATE: |
| FIELD VERIFICATION BY | DATE: |
| DRAWING CORRECTED BY | DATE: |
| MICRO-FILM INFORMATION | |
| RECORDED BY | DATE |
| NO. | |

ENGINEER'S SEAL

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | | |

DESIGNED BY: F.A. DATE: 8/91
DRAWN BY: N.V. DATE: 8/91
CHECKED BY: S.T. DATE: 8/91

PLAN SHOT TWICE
ONCE ON LIGHT
ONCE ON DARK

CITY OF ALBUQUERQUE
THIS MICROIMAGE IS THE BEST POSSIBLE REPRODUCTION DUE TO THE POOR QUALITY OF THE ORIGINAL DOCUMENT.

R# 34 DATE 3/15/02 OP

CITY OF ALBUQUERQUE

This microimage is certified to be a complete and accurate copy of the original as it appears in the files of the **Public Works Department** and was created in the normal course of business.

The photographic process used meets the Basic Microfilm Standards of the National Micrographics Association (MS116-1977)

3/15/02
DIRECTOR

NOTARY PUBLIC
OFFICIAL SEAL
Roberta Duran
07/03/02

D 24 C 20 B 16 A 12

CITY OF ALBUQUERQUE C D

PUBLIC WORKS/HYDROLOGY

D20/D3B1

0/D3B1

25×10

0000 0000 07.18

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

November 25, 1991

Fred Arfman, P.E.
Isaacson & Arfman, P.A.
128 Monroe Street, NE
Albuquerque, New Mexico 87108

RE: REVISED DRAINAGE PLAN FOR ROTARY PARK AT HERITAGE EAST
(D-20/D3B1) ENGINEER'S STAMP DATED NOVEMBER 12, 1991

Dear Mr. Arfman:

Based on the information provided on the referenced submittal received November 12, 1991, the plan is approved for Grading/Paving permit.

If you should have any questions, please do not hesitate to call me at 768-2650.

Cordially,

Gilbert Aldaz

Gilbert Aldaz, P.E. & P.S.
Civil Engineer/Hydrology

GA
wp+2939



25×10

0000 0000 0719

DRAINAGE INFORMATION SHEET

PROJECT TITLE: ROTARY PARK @ HERITAGE EAST ZONE ATLAS/DRNG. FILE #: D-20/D3B1

LEGAL DESCRIPTION: 4.75 AC. PARK IN HERITAGE EAST UNIT FOUR

CITY ADDRESS: QUINTANA ROAD N.E.

ENGINEERING FIRM: ISAACSON & ARFMAN, P.A. CONTACT: FRED ARFMAN

ADDRESS: 128 MONROE ST. N.E. PHONE: 268-8828

OWNER: CITY PARKS & RECREATION CONTACT: DANNY MITCHELL

ADDRESS: PHONE: 857-8637

ARCHITECT: DENNIS C. WILKINSON & ASSOC. CONTACT: DENNIS WILKINSON

ADDRESS: PHONE: 897-7430

SURVEYOR: GEORGE J. MARQUEZ CONTACT: GEORGE MARQUEZ

ADDRESS: PHONE:

CONTRACTOR: TO BE DETERMINED 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 (MINOR DRC REVISIONS)

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

X WITH SUPPLEMENTAL DRAINAGE CALCULATIONS ATTACHED (PREVIOUSLY SUBMITTED)

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

___ BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

X OTHER WORK ORDER (SPECIFY)

11-12-91

SEPT. 26, 1991

DATE SUBMITTED: ~~SEPT. 6, 1991~~

BY: FRED ARFMAN, P.E.

NOV 1

HYDROLOGY DIVISION

25 x 10

0000 0000 0720

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

September 30, 1991

Fred Arfman, P.E.
Isaacson & Arfman, P.A.
128 Monroe Street, NE
Albuquerque, New Mexico 87108

RE: DRAINAGE PLAN FOR ROTARY PARK AT HERITAGE EAST (D-20/D3B1)
ENGINEER'S STAMP DATED SEPTEMBER 18, 1991

Dear Mr. Arfman:

Based on the information provided on the referenced submittal received September 30, 1991, the plan is approved for Grading/Paving permit approval.

If you should have any questions, please do not hesitate to call me at 768-2650.

Cordially,

Gilbert Aldaz, P.E. & P.S.
Civil Engineer/Hydrology

GA
wp+2939

PUBLIC WORKS DEPARTMENT

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

ENGINEERING GROUP

Telephone (505) 768-2500

AN EQUAL OPPORTUNITY EMPLOYER

25×10

0000 0000 0721

DRAINAGE INFORMATION SHEET

PROJECT TITLE: ROTARY PARK @ HERITAGE EAST ZONE ATLAS/DRNG. FILE #: D-20

LEGAL DESCRIPTION: 4.75 AC. PARK IN HERITAGE EAST UNIT FOUR

CITY ADDRESS: QUINTANA ROAD N.E.

ENGINEERING FIRM: ISAACSON & ARFMAN, P.A. CONTACT: FRED ARFMAN

ADDRESS: 128 MONROE ST. N.E. PHONE: 268-8828

OWNER: CITY PARKS & RECREATION CONTACT: DANNY MITCHELL

ADDRESS: PHONE: 857-8637

ARCHITECT: DENNIS C. WILKINSON & ASSOC. CONTACT: DENNIS WILKINSON

ADDRESS: PHONE: 897-7430

SURVEYOR: GEORGE J. MARQUEZ CONTACT: GEORGE MARQUEZ

ADDRESS: PHONE:

CONTRACTOR: TO BE DETERMINED CONTACT:

ADDRESS: PHONE:

PRE-DESIGN MEETING:

___ YES

X NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. ___

EPC NO. ___

PROJ. NO. ___

RECEIVED SEP 30 1991 HYDROLOGY DIVISION

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

X DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

X WITH SUPPLEMENTAL DRAINAGE CALCULATIONS ATTACHED

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

___ BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

X OTHER WORK ORDER (SPECIFY)

DATE SUBMITTED: ~~SEPT. 6, 1991~~ SEPT. 26, 1991

BY: FRED ARFMAN, P.E.

25 X 10

0000 0000 0722

9/23/91

Fred Arfman said he will make new resubmittal at end of week

AS

25×10

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DRAINAGE INFORMATION SHEET

PROJECT TITLE: ROTARY PARK @ HERITAGE EAST ZONE ATLAS/DRNG. FILE #: D-20/D3B1

LEGAL DESCRIPTION: 4.75 AC. PARK IN HERITAGE EAST UNIT FOUR

CITY ADDRESS: QUINTANA ROAD N.E.

ENGINEERING FIRM: ISAACSON & ARFMAN, PA CONTACT: FRED ARFMAN

ADDRESS: 128 MONROE ST. N.E. PHONE: 268-8828

OWNER: CITY PARKS & RECREATION CONTACT: DANNY MITCHELL

ADDRESS: PHONE: 857-8637

ARCHITECT: DENNIS C. WILKINSON & ASSOC. CONTACT: DENNIS WILKINSON

ADDRESS: PHONE: 897-7430

SURVEYOR: GEORGE J. MARQUEZ CONTACT: GEORGE MARQUEZ

ADDRESS: PHONE:

CONTRACTOR: TO BE DETERMINED CONTACT:

ADDRESS: PHONE:

PRE-DESIGN MEETING:

___ YES

X NO

___ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. ___

EPC NO. ___

PROJ. NO. ___

Wp + 2939

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

X DRAINAGE PLAN

___ CONCEPTUAL GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

X WITH SUPPLEMENTAL DRAINAGE CALCULATIONS ATTACHED

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

X GRADING/PAVING PERMIT APPROVAL

___ OTHER ___ (SPECIFY)

SEP 6 1991

DATE SUBMITTED: SEPT. 6, 1991

BY: FRED ARFMAN, P.E.

25 x 10

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SEP 6 1991

## LOCATION & DESCRIPTION

ROTARY PARK AT HERITAGE EAST IS LOCATED ALONG THE NORTHEASTERLY RIGHT-OF-WAY LINE OF QUINTANA DRIVE, NE, APPROXIMATELY 1,200 FEET EAST OF VENTURA STREET, NE. EXISTING RESIDENTIAL DEVELOPMENTS BORDER ON THE NORTHWEST AND SOUTHEAST WHILE THE DRAINAGE RIGHT-OF-WAY FOR THE DOMINGO BACA CHANNEL LIES TO THE NORTHEAST.

THE PARK LAND CONSISTS OF 4.75 ACRES OF UNDEVELOPED AND MOSTLY UNDISTURBED NATIVE LAND CHARACTERISTICS.

## DRAINAGE CHARACTERISTICS

(EXISTING): THE PARK IS SURROUNDED BY THE FULLY DEVELOPED IMPROVEMENTS AS DESCRIBED ABOVE. THE SITE DOES NOT ACCEPT ANY OFFSITE STORM WATER. PRELIMINARY GRADES WERE ESTABLISHED BY THE MASTER GRADING PLAN FOR HERITAGE EAST UNIT FOUR BUT NO MAJOR GRADING IMPROVEMENTS HAVE BEEN IMPLEMENTED.

STORM WATERS GENERATED ONSITE SHEET FLOW AND/OR GULLEY FLOW TO THE NORTHWEST AND ARE THEN DIVERTED SOUTHWESTERLY, BEING PARALLEL AND ADJACENT TO LOT 1, BLOCK 8, OF HERITAGE EAST UNIT FIVE TO QUINTANA DRIVE. AT THAT POINT ALL STORM WATER FLOWS ARE ACCEPTED ONTO THE DRIVING SURFACE OF THE ROADWAY. STORM WATERS ARE CONVEYED BY SURFACE FLOW APPROXIMATELY 800 FEET TO THE NORTHWEST WHERE THEY ARE ACCEPTED BY A BATTERY OF DROP INLETS OF A STORM DRAIN WHICH CONNECTS TO THE EXISTING DOMINGO BACA DRAINAGE CHANNEL.

HYDROLOGY (EXISTING):
ROTARY PARK AT HERITAGE EAST IS WITHIN THE BOUNDARIES OF PARTICIPATION ZONE NO. 3, (EAST OF SAN MATEO BLVD.). AS SUCH THE $P_{360}$ (6 HR.-100 YEAR STORM) HAS A DEPTH OF 2.60 INCHES.

THE TOTAL ONSITE DRAINAGE AREA IS COMPRISED OF THE PARK'S 4.75 ACRES OF VACANT AND MOSTLY UNDISTURBED LAND AND HAS A CORRESPONDING LAND TREATMENT A CLASSIFICATION.

PEAK DISCHARGE (USING A 10-MINUTE TIME OF CONCENTRATION), CFS/AC 100 YR., ZONE 3 (TABLE 9) = 1.64 CFS/AC.

DETERMINE TOTAL $Q_P$: $= Q_{PA} A_A$
$= (1.64)(4.75)$
$= 7.8$ CFS

25×10

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## PROPOSED IMPROVEMENTS

ROTARY PARK SHALL BE GRADED TO CREATE A CENTRAL, SLIGHTLY SLOPED (2%), GRASSED PLAY AREA SURROUNDED BY OTHER PARK AMENITIES SUCH AS A HANDICAPPED ACCESSIBLE PLAYGROUND EQUIPMENT, WALKING AND BIKE TRAILS, LANDSCAPING ELEMENTS, NATIVE LANDSCAPING AREAS AND A SMALL PARKING LOT.

### HYDROLOGY (PROPOSED):

THE PARK SHALL BE DIVIDED INTO FOUR SUB-DRAINAGE AREAS, DESIGNATED AS A THROUGH D. THE FOLLOWING TABLE CONTAINS THE COMPUTATIONAL DATA AND RESULTS OF EACH BASIN USING THE CRITERIA ESTABLISHED BY SECTION 22.2, HYDROLOGY OF THE D.P.M., VOLUME 2--DESIGN CRITERIA, DATED JANUARY 1991.

**DEVELOPED RUNOFF RESULTS**

| DRAINAGE BASIN | AREA | LAND TREATMENT | $Q_{P(CFS)}$ | W + E (IN.) | VOLUME |
|---|---|---|---|---|---|
| A | 0.77 AC.<br>0.35 AC.<br>0.42 AC. | <br>B<br>C | 2.23 | 1.03 | 2,882 CU.FT. |
| B | 2.29 AC.<br>2.14 AC.<br>0.15 AC. | <br>B<br>D | 5.93 | 0.93 | 7,716 CU.FT. |
| C | 0.95 AC. | C | 3.13 | | 4,585 CU.FT. |
| D | 0.45 AC.<br>0.35 AC.<br>0.10 AC. | <br>B<br>C | 1.18 | 0.91 | 1,490 CU.FT. |
| OTHER | 0.29 AC. | THESE AREAS DO NOT HAVE AN OUTFALL FOR THOSE STORM WATERS GENERATED WITHIN THEIR LIMITS DUE TO THEIR PARK FUNCTION. | | | |
| TOTALS: | 4.75 AC. | | 12.5 CFS | | 16,685 CU.FT. |

25×10

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PLANS/PLATS ON FILE

FILE DESC: D20/D3B1

# PLANS/PLATS 1

25×10

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