

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Garfield Gospel Church ZONE ATLAS/DRNG. FILE #: K16/ D38
 DRB #: _____ EPC #: _____ WORK ORDER #: _____
 LEGAL DESCRIPTION: Lots 8 & 9, Blk 68, University Heights
 CITY ADDRESS: 2406 Garfield Ave S.E.
 ENGINEERING FIRM: Louis Gross & Assoc. Inc. CONTACT: Louis Gross
 ADDRESS: 925 Sixth St. N.W. PHONE: 243-6353
 OWNER: Garfield Gospel Church CONTACT: _____
 ADDRESS: 2406 Garfield S.E. PHONE: 266-2083
 ARCHITECT: N/A CONTACT: _____
 ADDRESS: _____ PHONE: _____
 SURVEYOR: Louis Gross & Assoc. Inc. CONTACT: Louis Gross
 ADDRESS: 925 Sixth St. N. W. PHONE: 243-6353
 CONTRACTOR: Star Paving CONTACT: Joe Cruz
 ADDRESS: P.O. Box 12333 PHONE: 877-0380

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT
XX DRAINAGE PLAN
 ___ CONCEPTUAL GRADING & DRAINAGE PLAN
XX GRADING PLAN
 ___ EROSION CONTROL PLAN
 ___ ENGINEER'S CERTIFICATION
 ___ OTHER _____

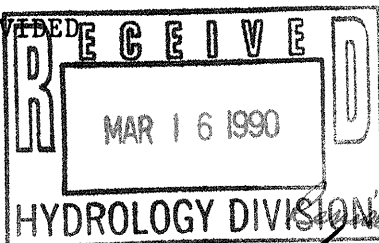
CHECK TYPE OF APPROVAL SOUGHT:

___ 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
XX GRADING PERMIT APPROVAL
XX PAVING PERMIT APPROVAL
 ___ S.A.D. DRAINAGE REPORT
 ___ DRAINAGE REQUIREMENTS
 ___ OTHER _____ (SPECIFY)

PRE-DESIGN MEETING:

___ YES
XX NO

___ COPY PROVIDED



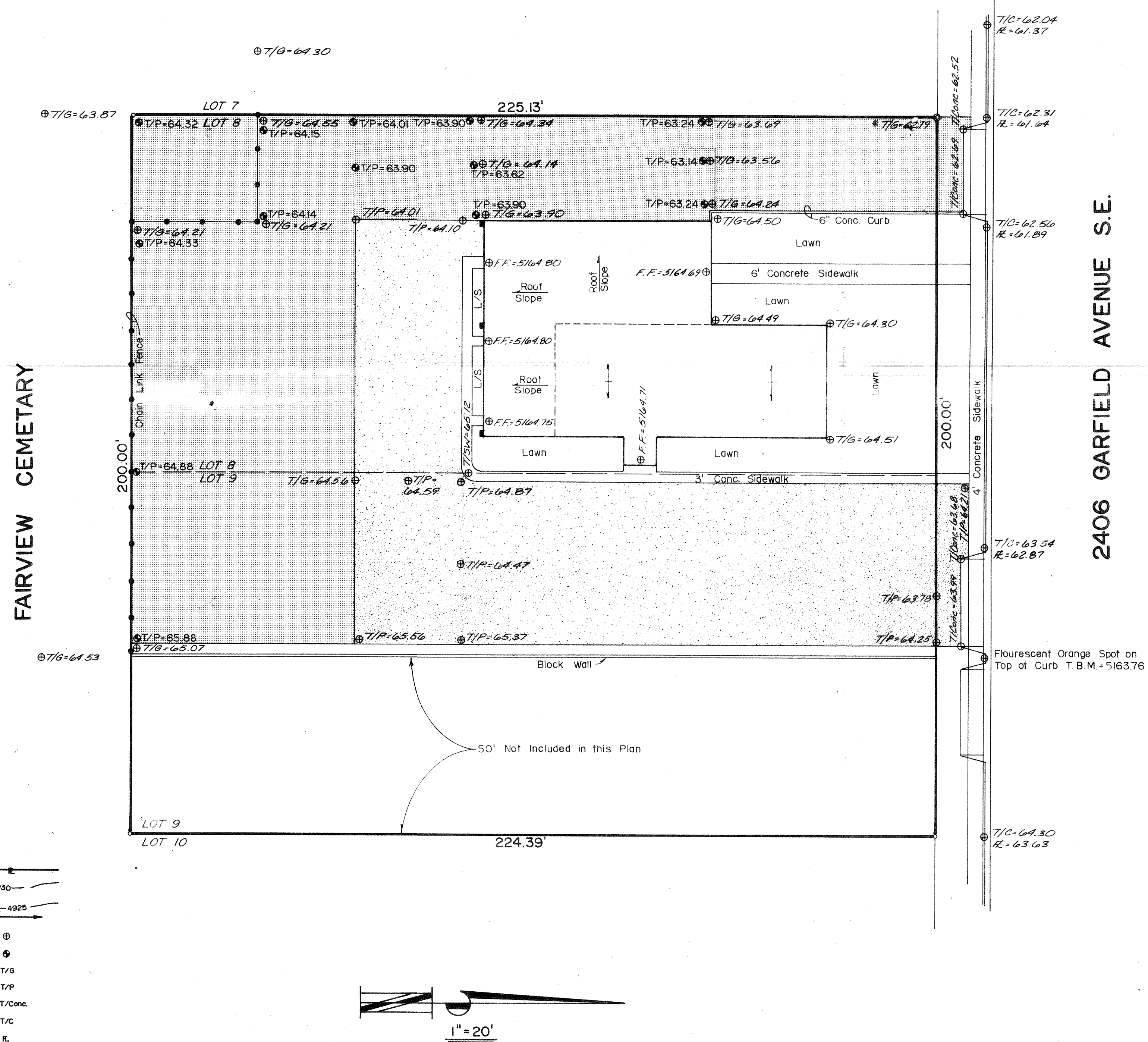
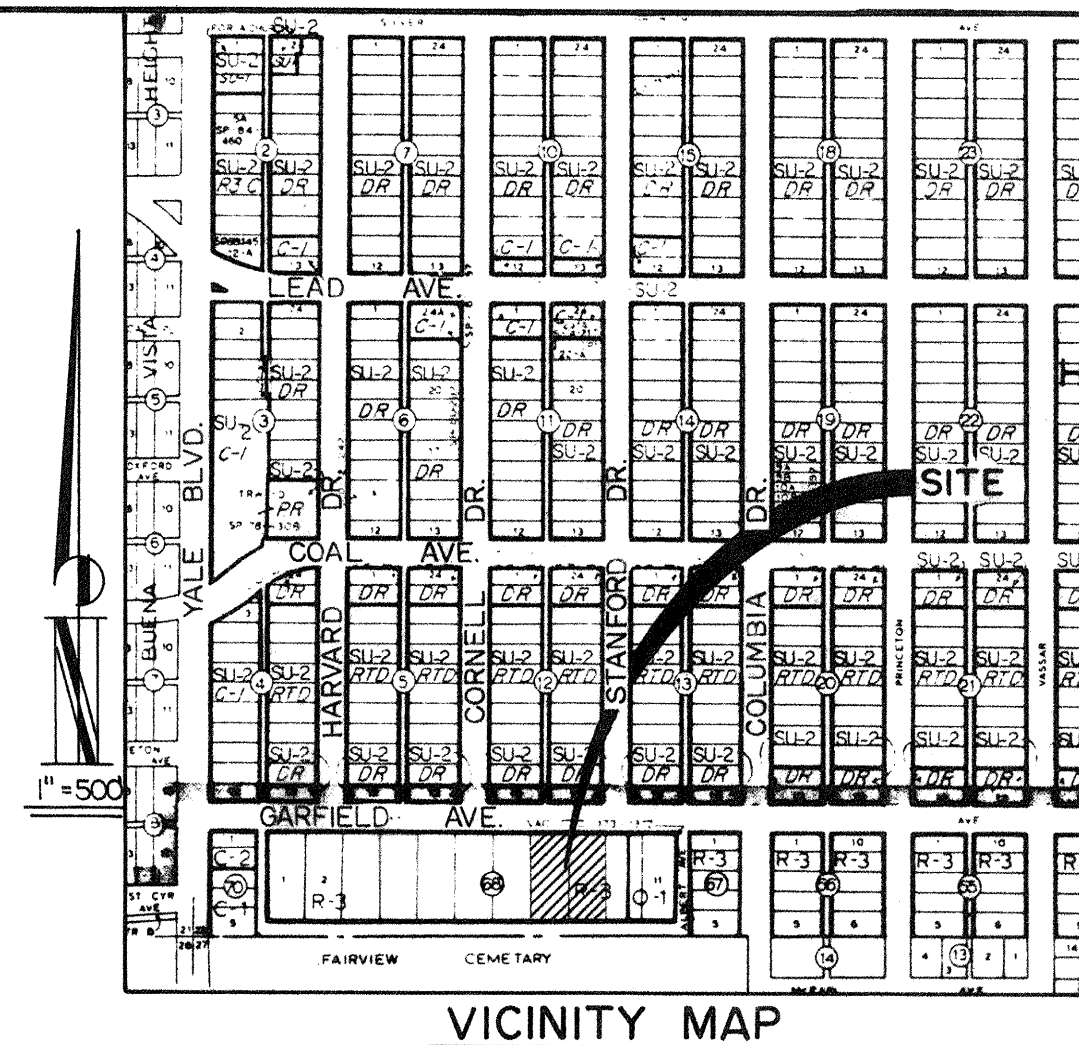
DATE SUBMITTED: 3/8/90

BY: _____

Louis W. Gross

DRAINAGE PLAN

LOTS 8 & 9, BLOCK 68
UNIVERSITY HEIGHTS
ZONE MAP K-16 BENCHMARK "I2-K16" ELEVATION = 5160.55
FLOOD MAP 29 SOIL TYPE
FILE K16/ APPROVED



LEGEND

Property line
Existing contours
Proposed contours
Flow direction
Existing spot elevations
Proposed spot elevations
Top of ground
Top of pavement
Top of concrete
Top of curb
Flowline gutter or swale
Downspout
Recently Paved
Future Paved

INTRODUCTION

The eastern 50 feet of Lots 8 & 9 is divided from subject site by a masonry fence and is not a part of this plan. The parking on the existing site prior to paving was of hard packed gravel. A portion of the rear of the site was natural ground. Part of the site has been recently paved without an approved drainage and grading plan. This plan addresses the portion recently paved and proposes grading for the future paving of all of subject site.

HYDROLOGY

100 yr - 6 hr = 2.25 in I = 2.25 * 6.84 / 3.24 = 4.75 in/hr

Existing (Prior to paving)

Area = 33,750 sf = 0.775 ac

| | | | | |
|--------------------|---|---------------|---|--------|
| Landscaping | = | 3,768 * 0.25 | = | 942 |
| Roof | = | 5,032 * 0.90 | = | 4,529 |
| Sidewalks | = | 984 * 0.95 | = | 935 |
| Hard Packed Gravel | = | 14,419 * 0.80 | = | 11,535 |
| Natural Ground | = | 9,547 * 0.40 | = | 3,819 |
| | | 33,750 | | 21,760 |

C = 21,760 / 33,750 = 0.64

Q = 0.64 * 4.75 * 0.775 = 2.3 cfs

CN = 85 Direct run off = 1.0 in

V = 1.0 / 12 * 33,750 = 2,812 cf

Existing (After recent paving)

| | | | | |
|--------------------|---|---------------|---|--------|
| Landscaping | = | 3,768 * 0.25 | = | 942 |
| Roof | = | 5,032 * 0.90 | = | 4,529 |
| Pavement | = | 10,346 * 0.95 | = | 9,829 |
| Hard Packed Gravel | = | 5,057 * 0.80 | = | 4,046 |
| Natural Ground | = | 9,547 * 0.45 | = | 3,819 |
| | | 33,750 | | 23,165 |

C = 23,165 / 33,750 = 0.69

Q = 0.69 * 4.75 * 0.775 = 2.5 cfs

CN = 90 Direct run off = 1.3 in

V = 1.3 / 12 * 33,750 = 3,656 cf

Future

| | | | | |
|-----------|---|---------------|---|--------|
| Landscape | = | 3,768 * 0.25 | = | 942 |
| Roof | = | 5,032 * 0.90 | = | 4,529 |
| Pavement | = | 24,950 * 0.95 | = | 23,703 |
| | | 33,750 | | 29,174 |

C = 29,174 / 33,750 = 0.86

Q = 0.86 * 4.75 * 0.775 = 3.2 cfs

CN = 92 Direct run off = 1.4 in

V = 1.4 / 12 * 33,750 = 3,938 cf

EROSION CONTROL NOTES

The contractor shall be responsible for compliance of the following:

1. No sediment bearing water shall be allowed to discharge from the site during construction.
2. During grading operations and until the project has been completed all adjacent property, rights of way and easements shall be protected from flooding.
3. Any and all sedimentation originating from the site which is deposited within public right of way shall be promptly removed by the contractor.
4. Control of sediment laden waters will be accomplished by use of a compacted earth berm of adequate height. The berm shall be located along the downstream perimeter of the property.

* REVISED 3-14-90

GARFIELD GOSPEL CHURCH

RECEIVED
MAR 16 1990
HYDROLOGY DIVISION

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(505) 243-6353

File # 517
Date MAR., 1990
Drawn CLL
Sheet 1 of 1