

CITY OF ALBUQUERQUE



May 20, 2009

James Lewis, R.A.
General Design, Inc.
1620 Central Ave. SE
Albuquerque, NM 87106

**Re: Nob Hill Condos, 110 Richmond Ave SE,
Certificate of Occupancy – Transportation Development
Engineer's Stamp dated 08-06-07 (K16-D071)
Certification dated 05-14-09**

Dear Mr. Lewis,

PO Box 1293

Based upon the information provided in your submittal received 05-15-09, the above referenced certification is approved for release of permanent Certificate of Occupancy by Transportation Development.

Albuquerque

If you have any questions, you can contact me at 924-3991.

NM 87103

Sincerely,

Kristal D. Metro, P.E.
Traffic Engineer, Planning Dept.
Development and Building Services

www.abq.gov

C: CO Clerk
File

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: ONE TEN RICHMOND ZONE MAP/DRG. FILE #: K-16/D021
 DRB #: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: TRACT A, Block 90, UNIVERSITY HEIGHTS ADDITION
 CITY ADDRESS: _____

ENGINEERING FIRM: _____
 ADDRESS: _____
 CITY, STATE: _____

CONTACT: _____
 PHONE: _____
 ZIP CODE: _____

OWNER: KENNY HINKES
 ADDRESS: 110 RICHMOND ST SE
 CITY, STATE: ALBU. NM

CONTACT: _____
 PHONE: _____
 ZIP CODE: 87106

ARCHITECT: JAMES C LEWIS ARCHITECT
 ADDRESS: 1670 CENTRAL SE
 CITY, STATE: ALBU. NM

CONTACT: JAMES C LEWIS
 PHONE: 247-6521
 ZIP CODE: 87106

SURVEYOR: _____
 ADDRESS: _____
 CITY, STATE: _____

CONTACT: _____
 PHONE: _____
 ZIP CODE: _____

CONTRACTOR: _____
 ADDRESS: _____
 CITY, STATE: _____

CONTACT: _____
 PHONE: _____
 ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL, *REQUIRES TCL or equal*
- ☐ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☒ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEERS CERTIFICATION (TCL)
- ☐ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ☐ OTHER

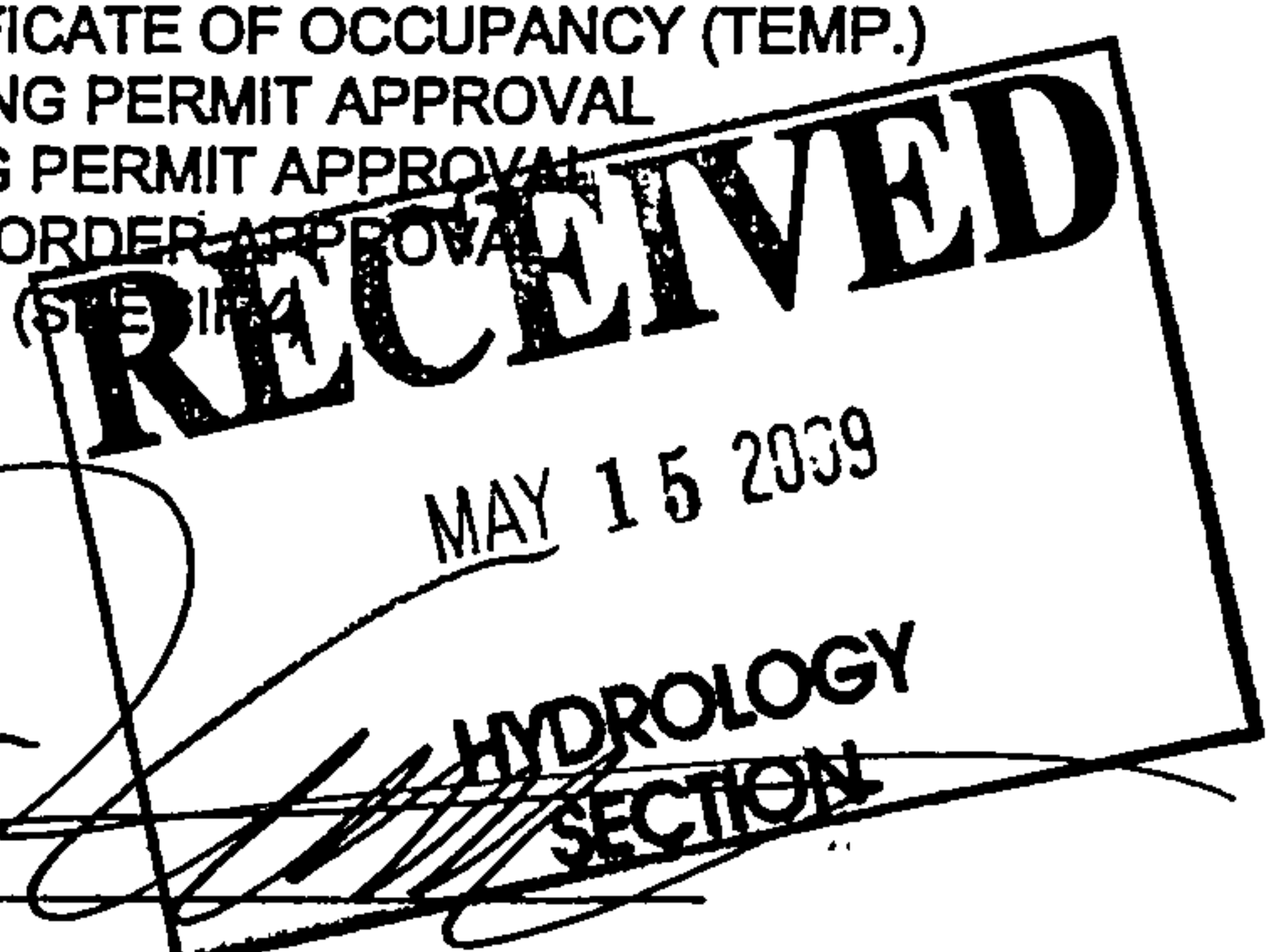
CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SIA / FINANCIAL GUARANTEE RELEASE
- ☐ 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 (PERM.)
- ☐ CERTIFICATE OF OCCUPANCY (TEMP.)
- ☐ GRADING PERMIT APPROVAL
- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
- ☐ NO
- ☐ COPY PROVIDED

DATE SUBMITTED: 5/15/09 BY: [Signature]



Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

James C Lewis Architect

May 14, 2009

re: Traffic Certification

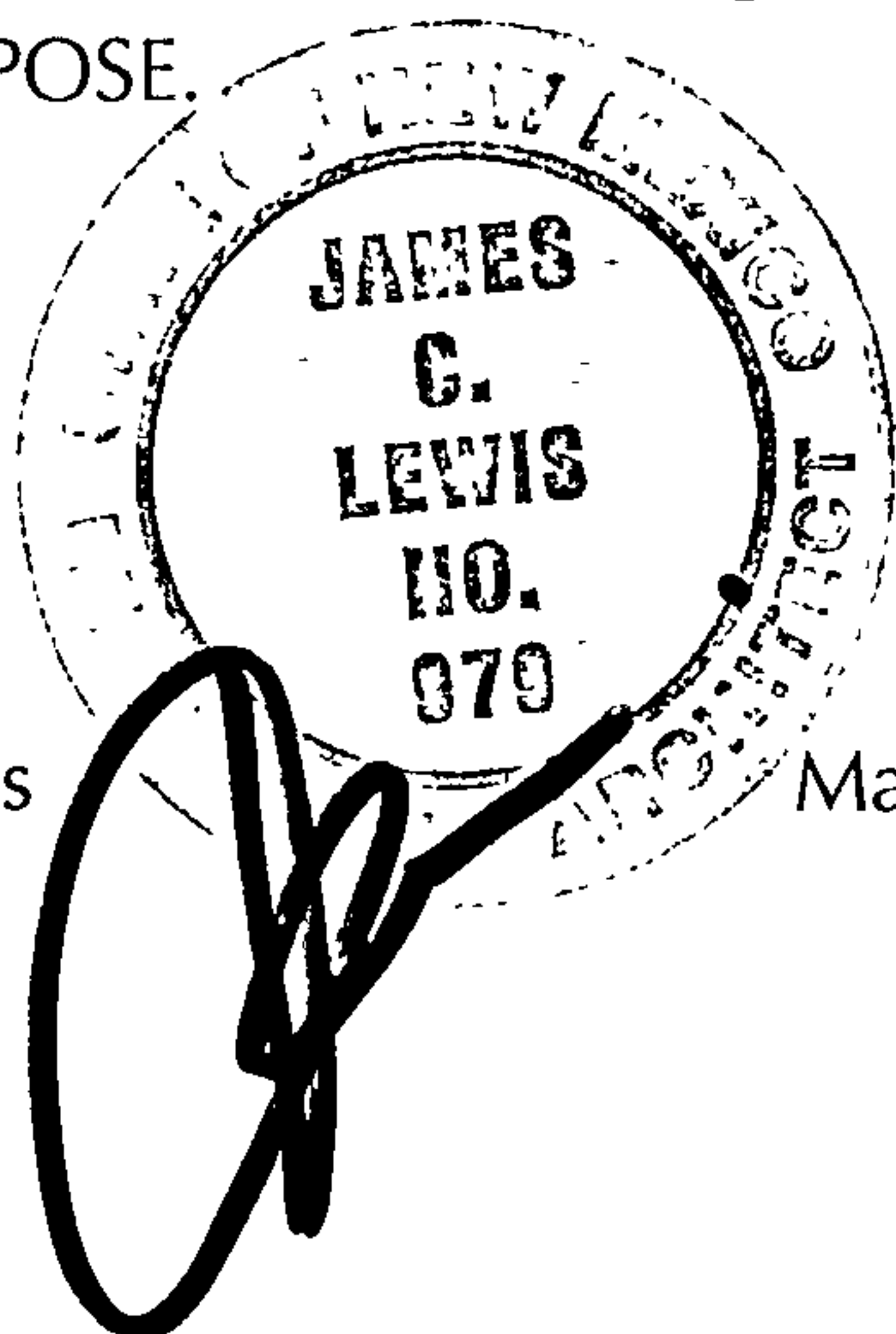
City of Albuquerque
Traffic Division
P.O. Box 1293
Albuquerque, NM 87103

Re: one ten richmond, 110 Richmond SE 87106

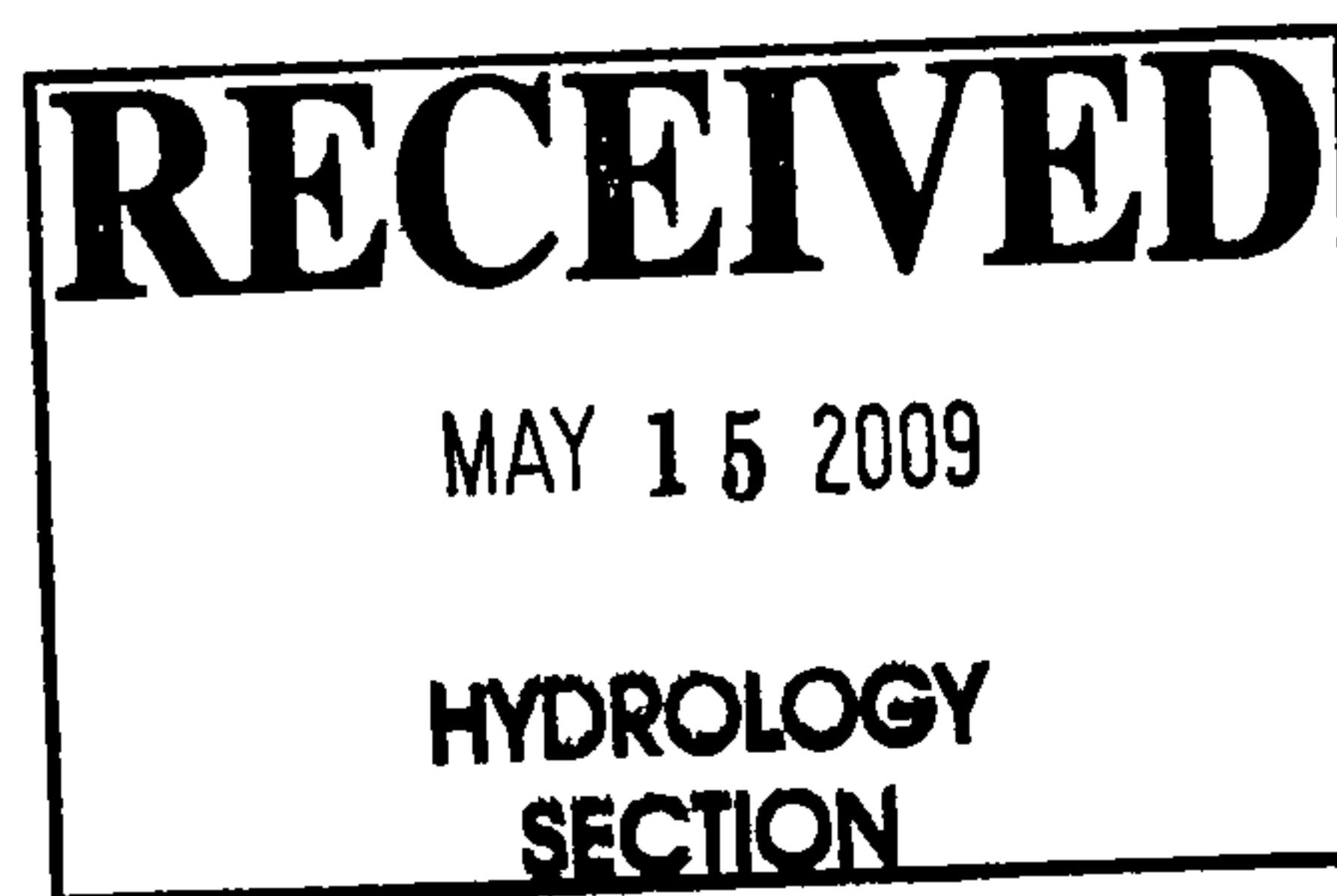
I, James C Lewis, NMRA, of the firm James C. Lewis Architect, Hereby by certify that this project is in substantial compliance with and in accordance with the design intent of the DRB, AA or TCL approved plan dated 1/11/08 (DRB chairpersons signature). The record information edited onto the original design document has been obtained by James C. Lewis, of the firm James C. Lewis Architect. I further certify that I have personally visited the project site on 5/14/09 and have determined by visual observation that the survey data provided is representative of actual site conditions and is true and correct to the best of my knowledge and belief. This certification is submitted in support of a request for Permanent Certificate of Occupancy.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE TRAFFIC ASPECTS OF THIS PROJECT. THOSE RELYING ON THE RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

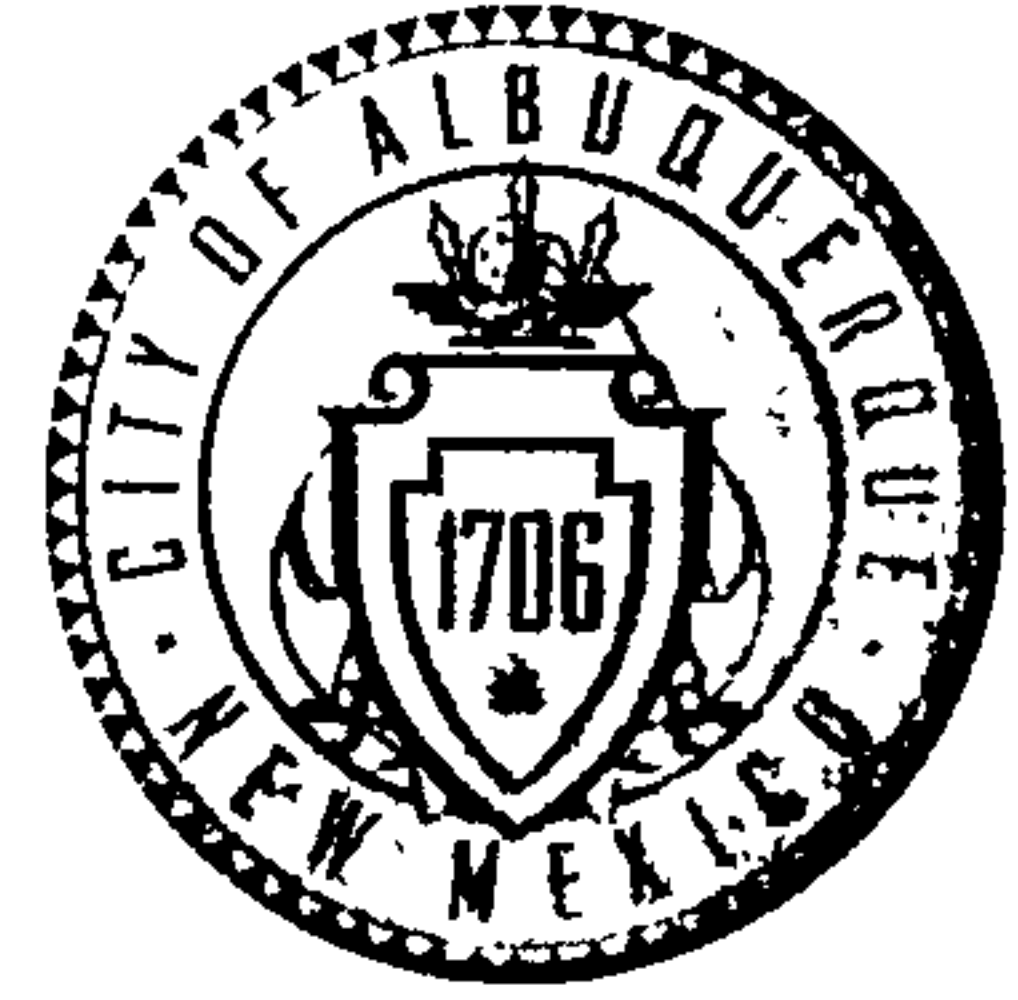
James C Lewis



May 14, 2009



CITY OF ALBUQUERQUE



May 20, 2009

John M. MacKenzie, P.E.
Mark Goodwin & Associates, P.A.
P.O. Box 90606
Albuquerque, NM 87199

**Re: Nob Hill Condos, 110 Richmond SE,
(K-16/D071)
Approval of Permanent Certificate of Occupancy,
Engineer's Stamp Dated: 12-19-07
Engineer's Certification Date: 5-19-09**

Dear Mr. MacKenzie,

PO Box 1293

Based upon the information provided on 5/19/09, the above referenced certification is approved for release of Permanent Certificate of Occupancy by Hydrology.

Albuquerque

If you have any questions, you can contact me at 924-3982.

NM 87103

Sincerely,

Timothy E. Sims

www.cabq.gov

Plan Checker-Hydrology, Planning Dept
Development and Building Services

C: CO Clerk—Katrina Sigala
file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: One Ten Richmond (Nob Hill Condos)

DRB #: _____

EPC#: _____

ZONE MAP/DRG. FILE #: K16/D71

WORK ORDER#: _____

LEGAL DESCRIPTION: Lot 1-A, 1-B 2 & 3 Blk 40 University heights subdivison

CITY ADDRESS: 110 Richmond SE

ENGINEERING FIRM: Mark Goodwin & Associates, PA

ADDRESS: PO Box 90606

CITY, STATE: Albuquerque, NM

CONTACT: John MacKenzie

PHONE: 828-2200

ZIP CODE: 87199

OWNER: _____

ADDRESS: _____

CITY, STATE: _____

CONTACT: _____

PHONE: _____

ZIP CODE: _____

ARCHITECT: James C. Lewis Architect General Design, Inc.

ADDRESS: 1620 Central Avenue SE

CITY, STATE: Albuquerque, NM

CONTACT: Phil Lightle

PHONE: 247-1529

ZIP CODE: 87106

SURVEYOR: Surv-Tek

ADDRESS: 9384 Valley View Drive

CITY, STATE: Albuquerque, NM

CONTACT: Russ Hugg

PHONE: 897-3366

ZIP CODE: 87114

CONTRACTOR: _____

ADDRESS: _____

CITY, STATE: _____

CONTACT: _____

PHONE: _____

ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL, **REQUIRES TCL or equal**
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- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☒ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEERS CERTIFICATION (TCL)
- ☐ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ☐ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

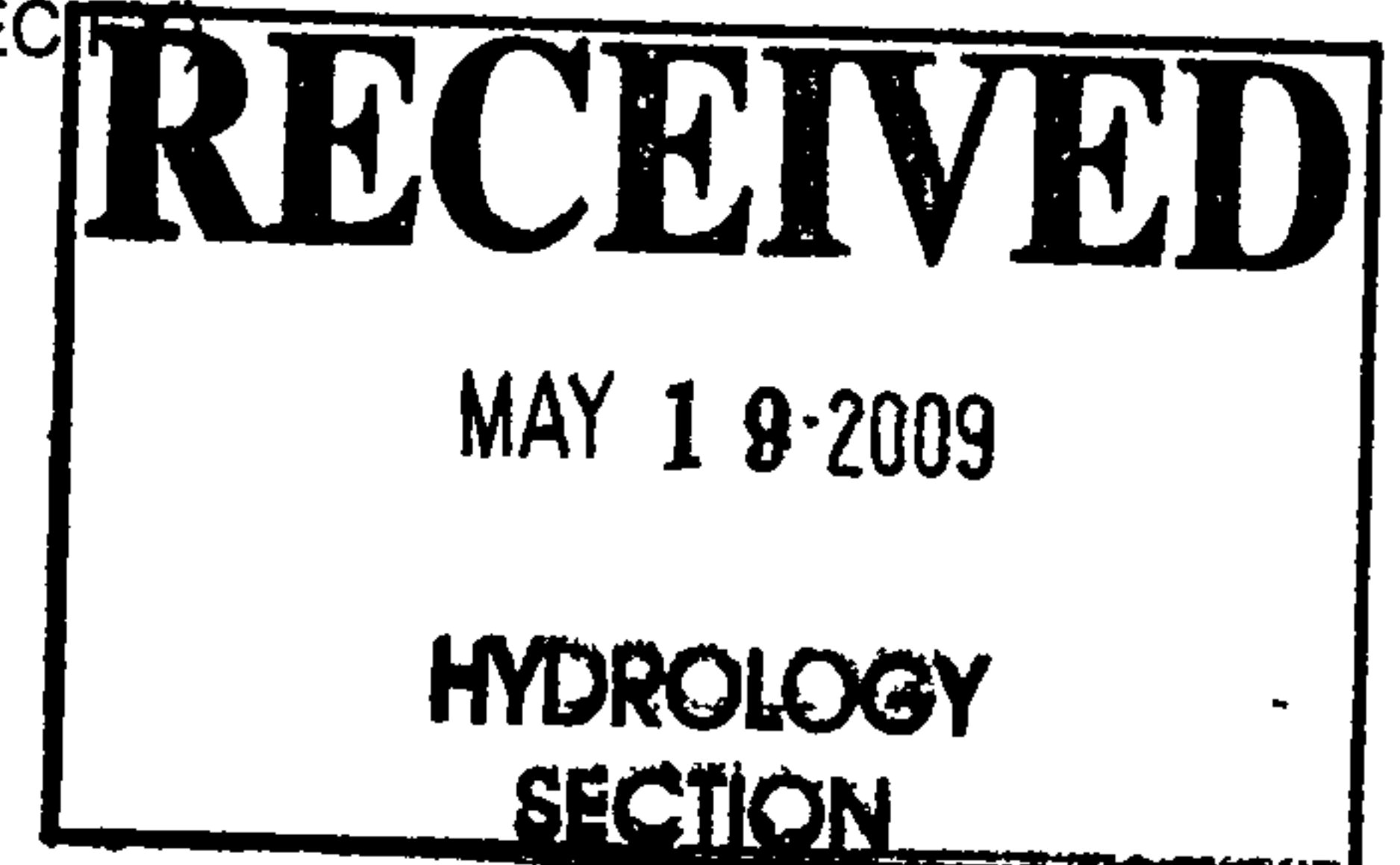
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- ☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
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- ☐ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

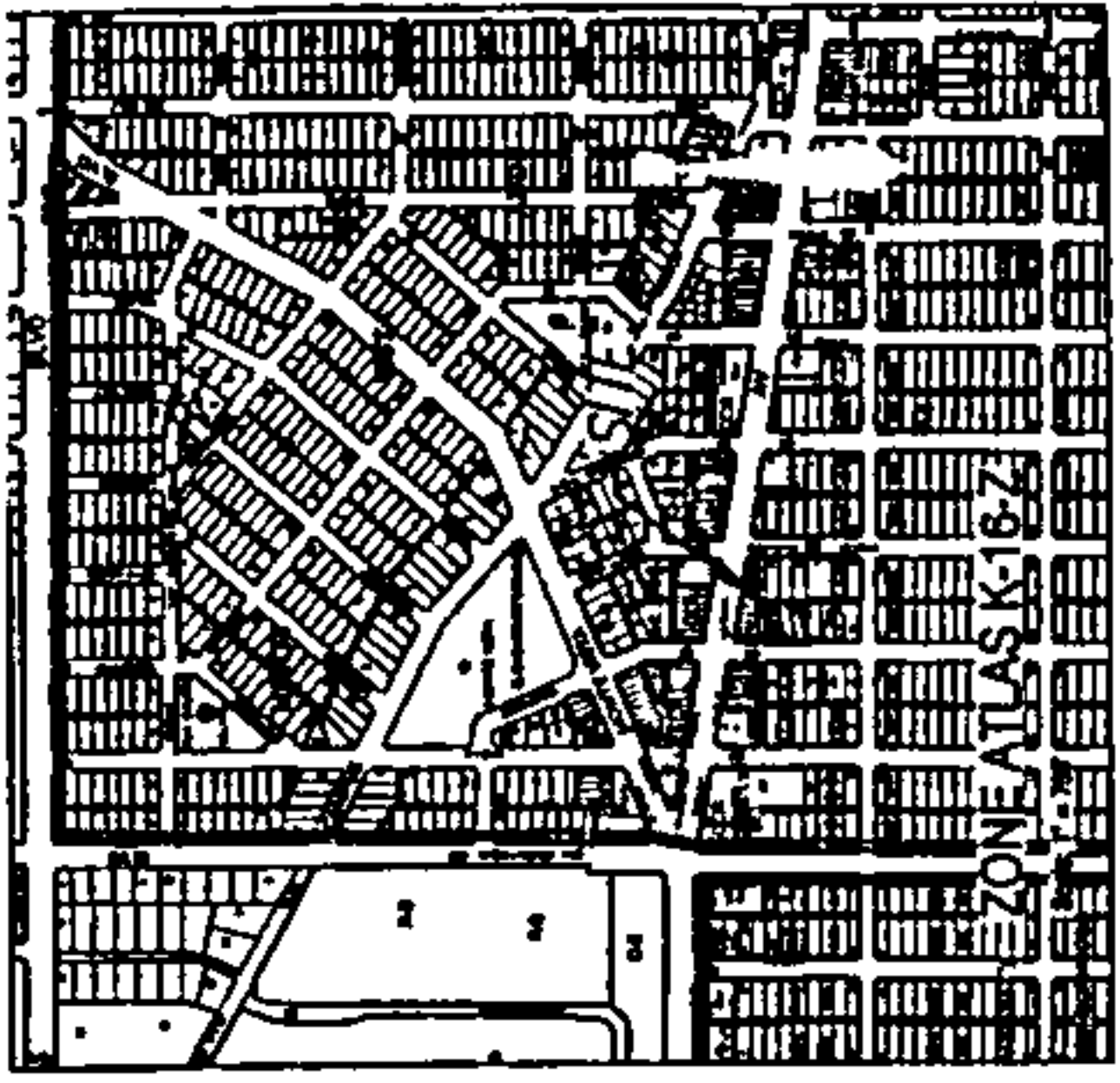
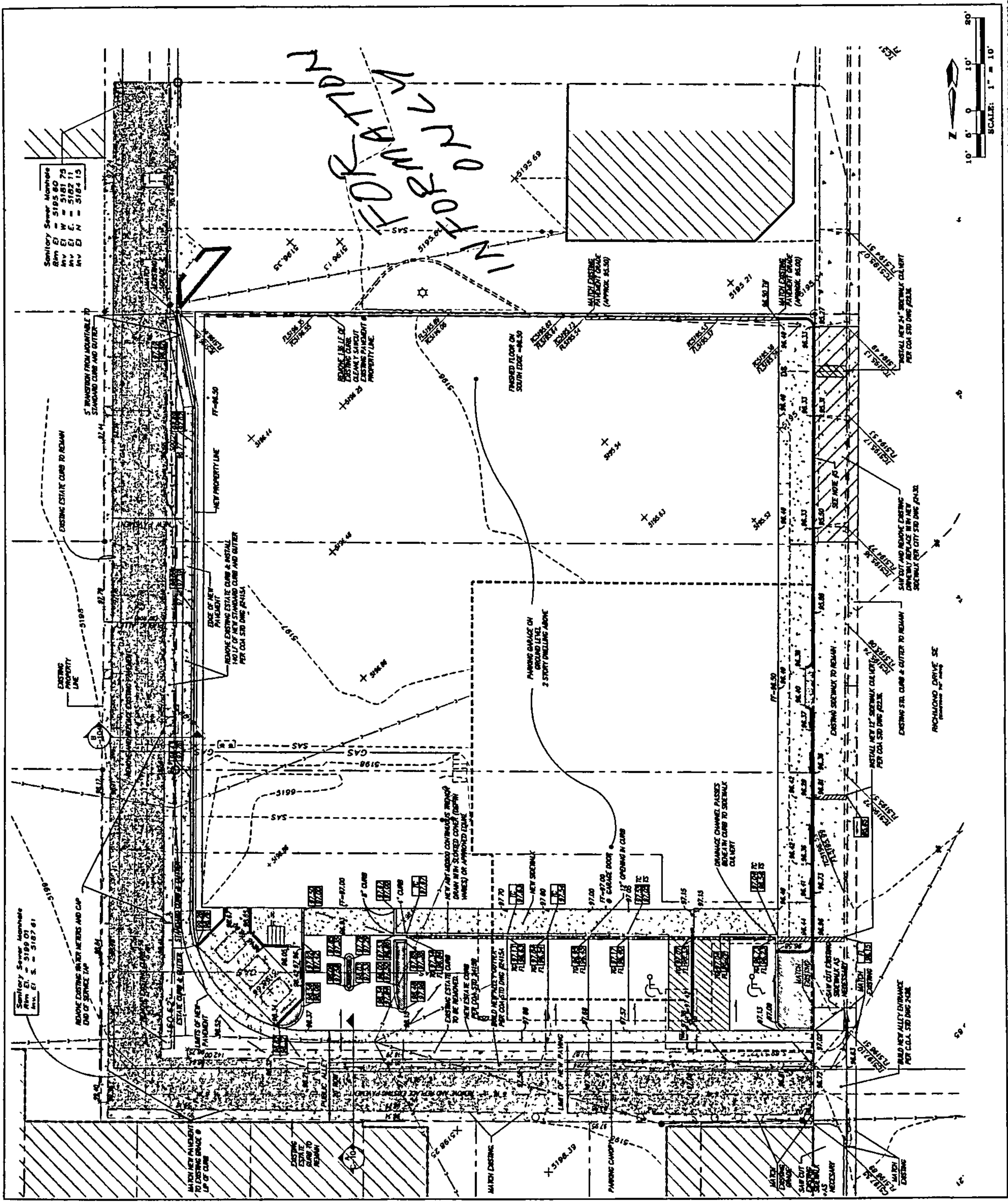
DATE SUBMITTED: May 19, 2009

BY: John MacKenzie



Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

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ASC Bench Mark
Albuquerque Control Survey Benchmark
715-116, Elevation = 5181.308 (NAD83)
Notes
SEE SHEET C-101

Legend

| | |
|------------|---|
| X-51 PG 44 | EXISTING SPOT ELEVATION |
| ○ | EXISTING POWER POLE |
| ○ | EXISTING ROUND PROPERTY CORNER AS INDICATED |
| ○ | EXISTING SET CONCRETE MAIL AND BRASS BOX |
| ○ | EXISTING WATER METER |
| ○ | EXISTING OVERHEAD UTILITY LINE |
| ○ | EXISTING SEWER CLEAN OUT |
| ○ | EXISTING WATER VALVE |
| ○ | EXISTING TELEPHONE MANHOLE |
| ○ | EXISTING POLE ANCHOR |
| ○ | EXISTING SANITARY SEWER MANHOLE |
| ○ | EXISTING LIGHT POLE |
| ○ | EXISTING HOLLAND |
| ○ | EXISTING PROPERTY LINE |
| ○ | EXISTING BLOCK WALL |
| ○ | EXISTING POWER POLE WITH FEED |
| ○ | EXISTING CONCRETE AREA |
| ○ | EXISTING GAS LINE |
| ○ | EXISTING SANITARY SEWER LINE |
| ○ | EXISTING WATER LINE |
| ○ | EXISTING UNDERGROUND TELEPHONE LINE |
| ○ | EXISTING BUILDING |
| ○ | REMOVE AND REPLACE EXISTING ASPHALT |
| ○ | EXISTING CONCRETE |
| ○ | NEW CONCRETE |
| ○ | NEW ROOF DRAIN DOWN SPOUT |
| ○ | PROPERTY LINE |
| ○ | NEW PROPOSED EXTENDED SEW WALL |
| ○ | PROPOSED FLOW DIRECTION |
| ○ | OVER HANG OF BUILDING |
| ○ | NEW HANDICAP PARKING |
| ○ | SEWAGE OIL VENT |
| ○ | NEW HEADER CURB PER STD DING 24158 |
| ○ | NEW BUSHY BOUNDARY LINE |
| ○ | NEW WATER METER |
| ○ | NEW FURNACE WALL |
| ○ | TOP OF SIDEWALK ELEVATION |
| ○ | TOP OF CURB ELEVATION |
| ○ | FLOW LINE ELEVATION |

MARK GOODWIN & ASSOCIATES, P.A.
1000 3RD STREET, N.W.
ALBUQUERQUE, NEW MEXICO 87102
(505) 262-2200, FAX (505) 787-9339

James C. Lewis Architect
110 Richmond SE
Albuquerque, New Mexico 87106

one ten richmond
110 Richmond SE
Albuquerque, New Mexico 87106

ISSUE DATE: 5 July 2007
REVISIONS:
PROJECT # 2007-0703
Grading Plan
SHEET C-103
5 OF 52

517.408

517-028

AHYMO PROGRAM (AHYMO_97) - - Version: 1997.02d
 RUN DATE (MON/DAY/YR) = 05/11/2009
 START TIME (HR:MIN:SEC) = 15:08:18 USER NO.= AHYMO-I-
 9702dGoodwinM-AH
 INPUT FILE = nobpump.dat

START TIME=0.0
 ***** 110 RICHMOND CONDOS
 ***** CALCULATE FLOWS USING 100 YEAR 6 HOUR
 STORM
 ***** INPUT FILE: NOBPUMP.DAT 05-11-09 JMM
 RAINFALL TYPE=1 RAIN QUARTER=0.0 IN
 RAIN ONE=2.10 IN RAIN SIX=2.35IN
 RAIN DAY=2.7 IN DT=0.03333 HR

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2
 - PEAK AT 1.40 HR.

| DT = .033330 HOURS | | | END TIME = 5.999400 HOURS | | | |
|--------------------|--------|--------|---------------------------|--------|--------|--------|
| .0000 | .0008 | .0017 | .0026 | .0035 | .0044 | .0054 |
| .0063 | .0073 | .0083 | .0094 | .0104 | .0115 | .0127 |
| .0138 | .0150 | .0163 | .0176 | .0189 | .0203 | .0217 |
| .0232 | .0247 | .0263 | .0280 | .0297 | .0315 | .0335 |
| .0355 | .0376 | .0399 | .0457 | .0519 | .0585 | .0727 |
| .1046 | .1536 | .2241 | .3202 | .4466 | .6077 | .8083 |
| 1.0531 | 1.2804 | 1.3753 | 1.4554 | 1.5267 | 1.5915 | 1.6512 |
| 1.7066 | 1.7584 | 1.8069 | 1.8526 | 1.8957 | 1.9364 | 1.9750 |
| 2.0115 | 2.0461 | 2.0789 | 2.1101 | 2.1397 | 2.1454 | 2.1507 |
| 2.1557 | 2.1604 | 2.1648 | 2.1691 | 2.1731 | 2.1770 | 2.1808 |
| 2.1844 | 2.1878 | 2.1912 | 2.1944 | 2.1976 | 2.2006 | 2.2035 |
| 2.2064 | 2.2092 | 2.2119 | 2.2145 | 2.2171 | 2.2196 | 2.2221 |
| 2.2245 | 2.2268 | 2.2291 | 2.2314 | 2.2336 | 2.2357 | 2.2378 |
| 2.2399 | 2.2419 | 2.2439 | 2.2459 | 2.2478 | 2.2497 | 2.2515 |
| 2.2534 | 2.2552 | 2.2569 | 2.2587 | 2.2604 | 2.2621 | 2.2638 |
| 2.2654 | 2.2670 | 2.2686 | 2.2702 | 2.2718 | 2.2733 | 2.2748 |
| 2.2763 | 2.2778 | 2.2792 | 2.2807 | 2.2821 | 2.2835 | 2.2849 |
| 2.2863 | 2.2876 | 2.2889 | 2.2903 | 2.2916 | 2.2929 | 2.2942 |
| 2.2954 | 2.2967 | 2.2979 | 2.2992 | 2.3004 | 2.3016 | 2.3028 |
| 2.3040 | 2.3052 | 2.3063 | 2.3075 | 2.3086 | 2.3097 | 2.3109 |
| 2.3120 | 2.3131 | 2.3142 | 2.3153 | 2.3163 | 2.3174 | 2.3184 |
| 2.3195 | 2.3205 | 2.3216 | 2.3226 | 2.3236 | 2.3246 | 2.3256 |
| 2.3266 | 2.3276 | 2.3285 | 2.3295 | 2.3305 | 2.3314 | 2.3324 |
| 2.3333 | 2.3342 | 2.3352 | 2.3361 | 2.3370 | 2.3379 | 2.3388 |
| 2.3397 | 2.3406 | 2.3415 | 2.3423 | 2.3432 | 2.3441 | 2.3449 |
| 2.3458 | 2.3466 | 2.3475 | 2.3483 | 2.3492 | 2.3500 | |

 ***** DRAINAGE BASIN FOR NORTH PARKING LOT SUMP PUMP
 ***** 3,724 SF OR 0.0859 ACRES

 COMPUTE NM HYD ID=1 HYD NO=101.0 AREA=0.000134 SQ MI
 PER A=0.0 PER B=0.0 PER C=0.00 PER D=100.00
 TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000
 SHAPE CONSTANT, N = 7.106420

UNIT PEAK = .52904 CFS UNIT VOLUME = .9786 B =
 526.28 P60 = 2.1000
 AREA = .000134 SQ MI IA = .10000 INCHES INF = .04000
 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT
 = .033330

PRINT HYD ID=1 CODE=24

PARTIAL HYDROGRAPH 101.00

| TIME | TIME FLOW HRS CFS | FLOW TIME CFS HRS CFS | TIME FLOW HRS CFS | FLOW TIME CFS HRS CFS | TIME FLOW HRS CFS | FLOW TIME CFS HRS CFS |
|-------|----------------------------|-----------------------------------|----------------------------|-----------------------------------|----------------------------|-----------------------------------|
| | .000 | .0 | 1.333 | .1 | 2.666 | .0 |
| 4.000 | .0 | 5.333 | .0 | | | |
| | .667 | .0 | 2.000 | .1 | 3.333 | .0 |
| 4.666 | .0 | 5.999 | .0 | | | |

RUNOFF VOLUME = 2.11715 INCHES = .0151 ACRE-FEET
 PEAK DISCHARGE RATE = .43 CFS AT 1.500 HOURS BASIN AREA =
 .0001 SQ. MI.

FINISH

NORMAL PROGRAM FINISH

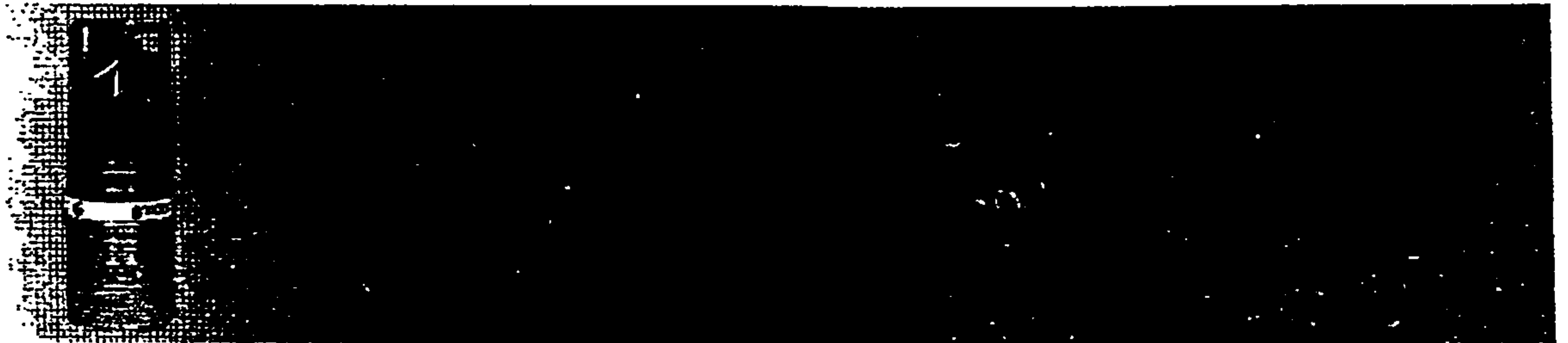
END TIME (HR:MIN:SEC) = 15:08:18

grindex

USA

GRINDEX IN ACTION NEWS GRINDEX IN USA ABOUT GRINDEX

Minette



Minette: (2.4 - 3.5 HP - 3")

The Minette pump is the next smallest model in the drainage range, but it shares all important features and benefits with the larger models, resulting in the lowest cost per cubic meter pumped. The drainage range of pumps drain water, not your wallet! The revolutionary hydraulic design ensures high wear resistance and dramatically reduces performance drop due to long time wear.

Technical data**Pump type:**

Electrical submersible

One-phase and Three-phase

Classification:

Class IP 68

Maximum submersion: 66 feet

Cable:

SUBCAB:

1-phase: 53 ft: 14AWG/3

3-phase: 53 ft: 14AWG/4

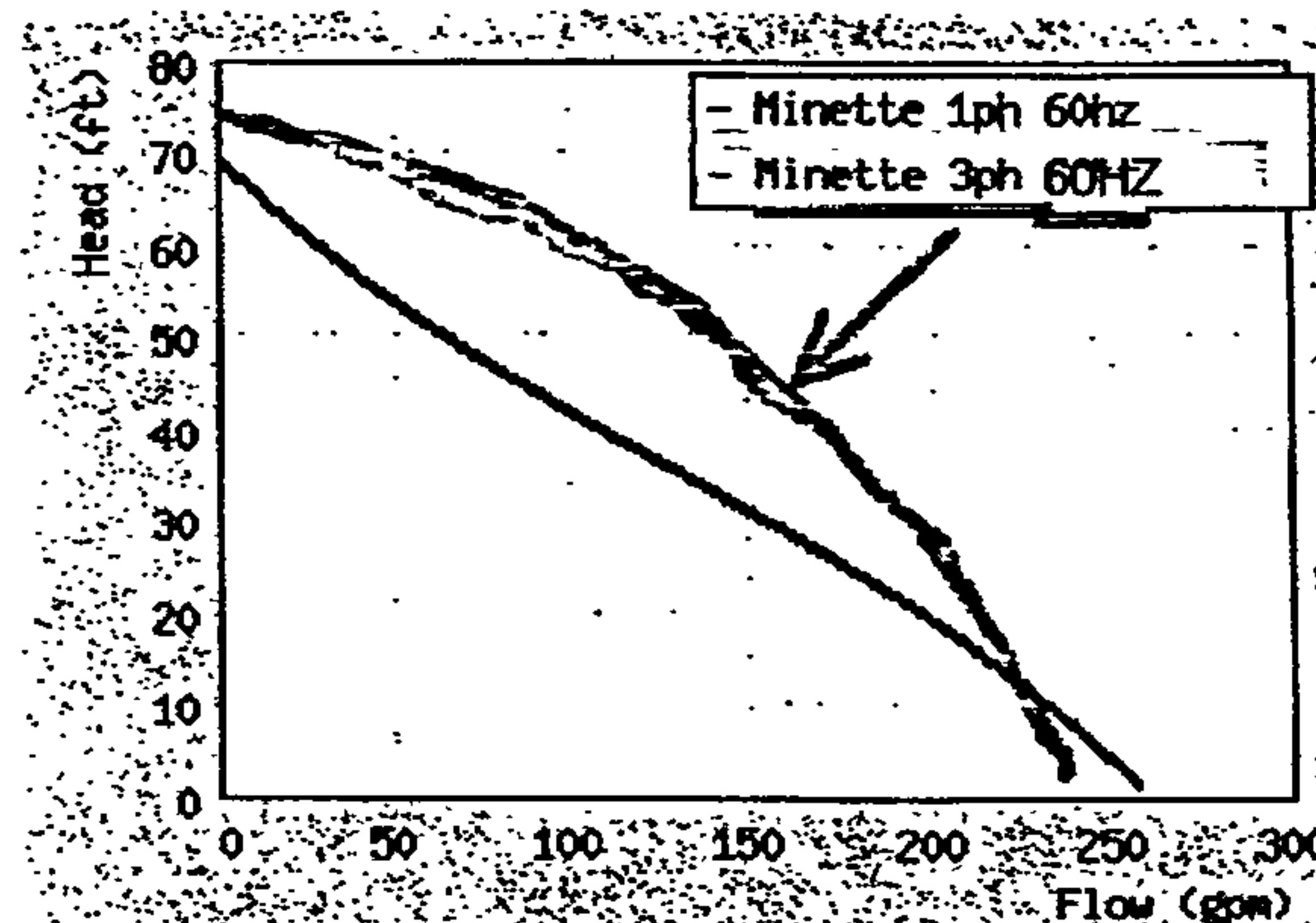
Discharge:

3" - hose, ISO-G or NPT

Limitations:

pH 5-8

Maximum liquid temperature: 104°F

**Documents library**

Data sheet (US)

Spare parts list 50/60Hz

(Multi language)

Brochure (US)

Links

Download free Acrobat Reader to open PDF-files

| | Minette 1-phase | Minette 3-phase |
|---------------------------------------|-----------------|-----------------|
| Rated power P ₂ | 2.4 HP | 3.5 HP |
| Maximum absorbed power P ₁ | 2.2 kW | 3.1 kW |
| Rated current at 230V | 9.9 A | 9.5 AMPS |
| Rated current at 460V | | 4.7 A |
| Rated current at 575V | | 3.6 A |
| Shaft speed | 3420 r.p.m. | 3410 r.p.m. |
| Throughlet / Maximum solid size | Ø 0.35" | Ø 0.35" |
| Weight | 71 lbs | 71 lbs |
| Dimensions (diameter / height) | Ø 9.5" / 27" | Ø 9.5" / 27" |

Design philosophy facilitates service and repair

Grindex designs all pumps along the same principles, using components that are interchangeable between multiple models. This philosophy ensures design continuity, reduces spare parts and simplifies service.

UNIQUE BUILT-IN PROTECTION ENSURES LONGEVITY

Only Grindex pumps have Air Valves and the SMART system for the most extensive motor protection available.

① AIR VALVE

Water is generally used to cool the motor in a submersible pump, however there are times when a pump runs dry, damaging the pump. The Grindex Air Valve allows the pump to run dry without damage to the motor. The impeller acts like a fan and the hot air escapes through the air valve.

② SMART™ SYSTEM INCLUDES PHASEGUARD™

Protects the motor against single phasing. Phase failure can cause extensive damage to a motor. Grindex Phaseguard™ will automatically shut down the pump if this occurs, thus preventing serious motor damage.

ROTASENSE™

Controls phase sequence. Rotasense™ ensures the motor will only run in the correct direction. This unique feature eliminates overloading, low pumping capacity, and abnormal wear.

TEMPERATURE GUARD™

Protects the motor from overheating. Overheating can cause serious damage to a pump motor. Temperature Guard™ automatically shuts down the pump if any stator winding exceeds 266° F (130° C).

QUALITY FOR LONGER LIFE

Grindex pumps are designed to be used for tough applications. The choice of materials for the pump is therefore extremely important. All materials used in Grindex pumps are of the highest quality ensuring durability and dependability.

③ AQUATITE - DOUBLE MECHANICAL SHAFT SEALS

Two sets of mechanical seals work independently for double security. Furthermore, the new design of the upper seal seat uses the centrifugal force of the oil to ensure that the upper seal is fully lubricated at all times.

④ OUTER CASING OF CORRUGATED STAINLESS STEEL

The outer casings of all Grindex pumps are made from 316 stainless steel to protect the pump from corrosion. The corrugation of the outer casing adds strength and is more than twice as strong as a plain casing.

⑤ ADJUSTABLE POLYURETHANE DIFFUSERS

Polyurethane diffusers are extremely durable and are highly resistant to abrasive materials. The diffusers are adjustable to maintain optimal pumping performance. Oil-resistant rubber diffusers are available as an option.

⑥ HIGH CHROMIUM IMPELLERS

The impellers are made of chromium-alloyed white cast iron and have a hardness of 55 Rc. The impellers are resistant to abrasive materials such as sand, drill cuttings, clay, and grinder cuttings. Stainless steel impellers are available as an option.



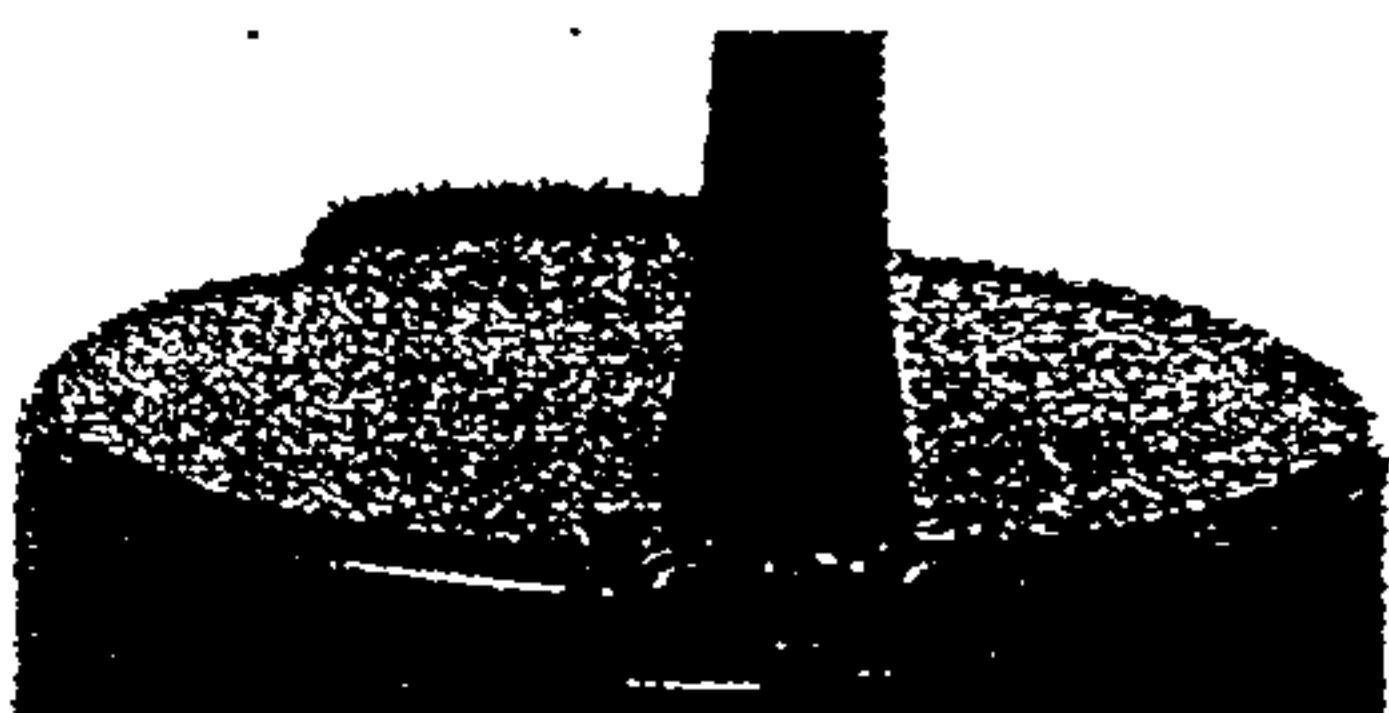
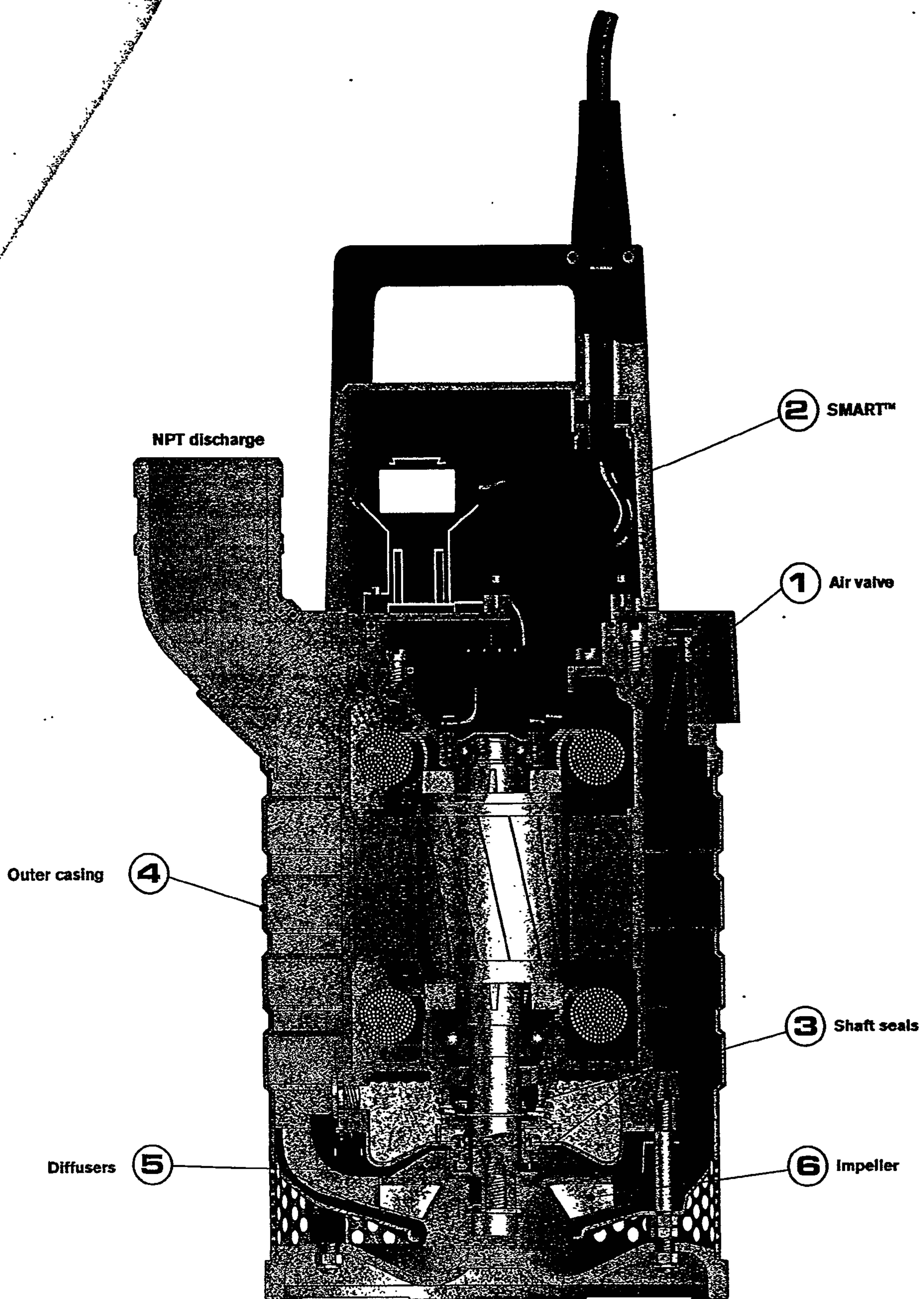
NPT Threaded discharge connections. Hose connections also available



Regardless of size, Grindex pumps are easily moved by carrying handles or eyebolts.



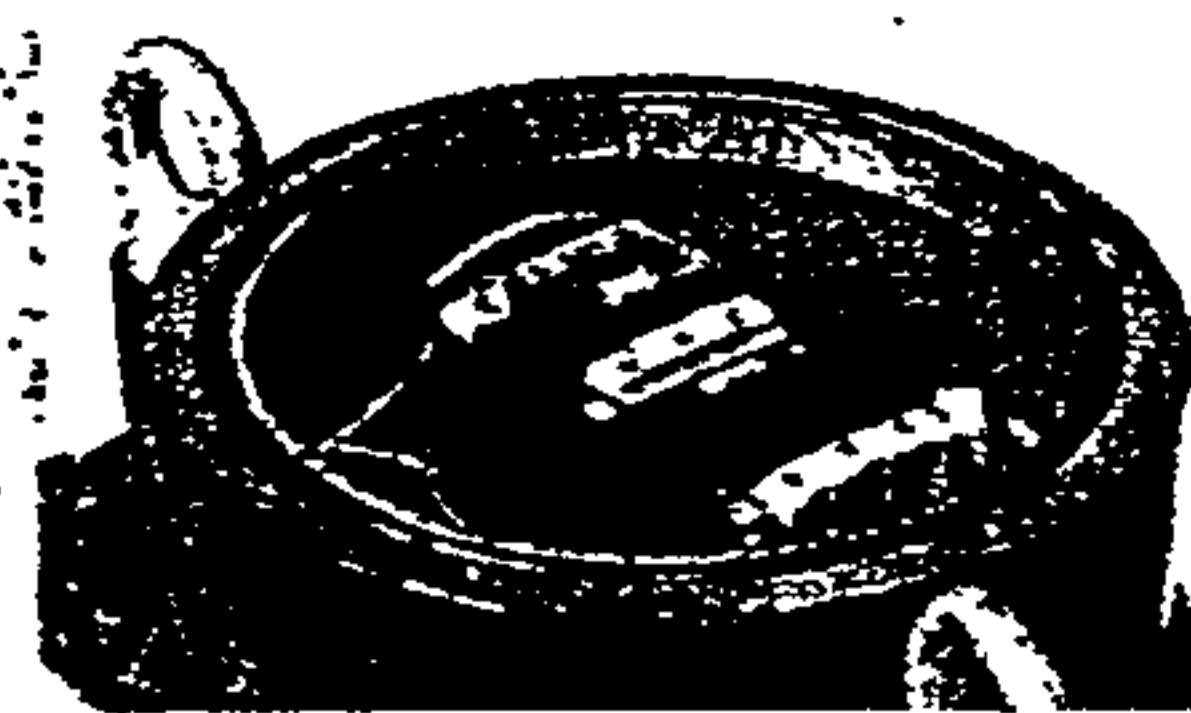
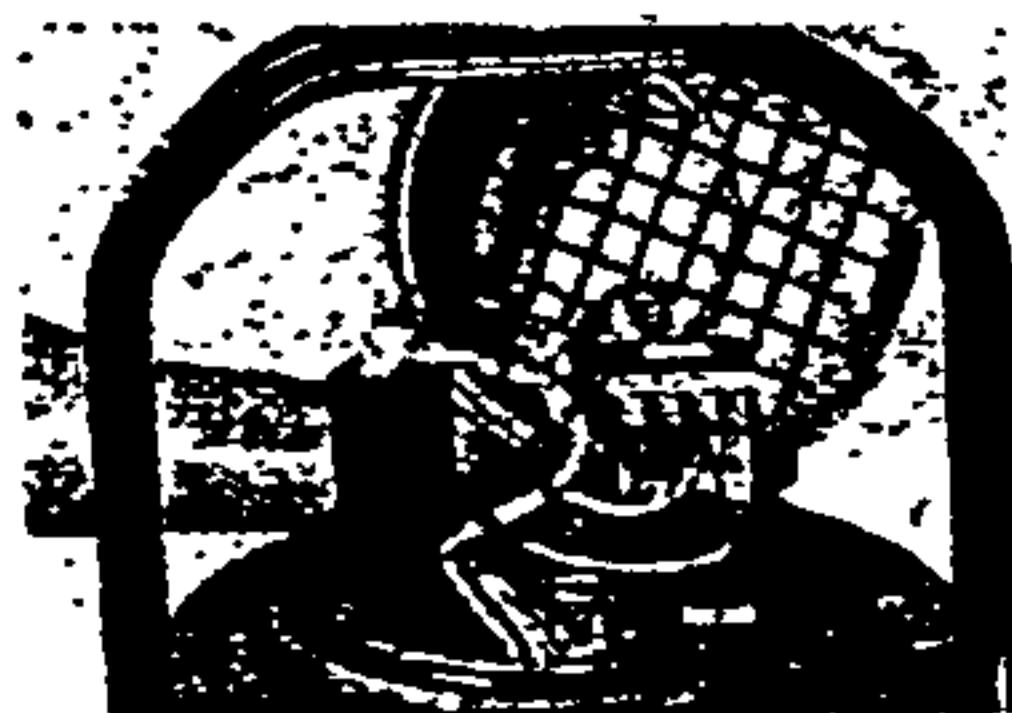
Handy way of restarting the phase shifter switch



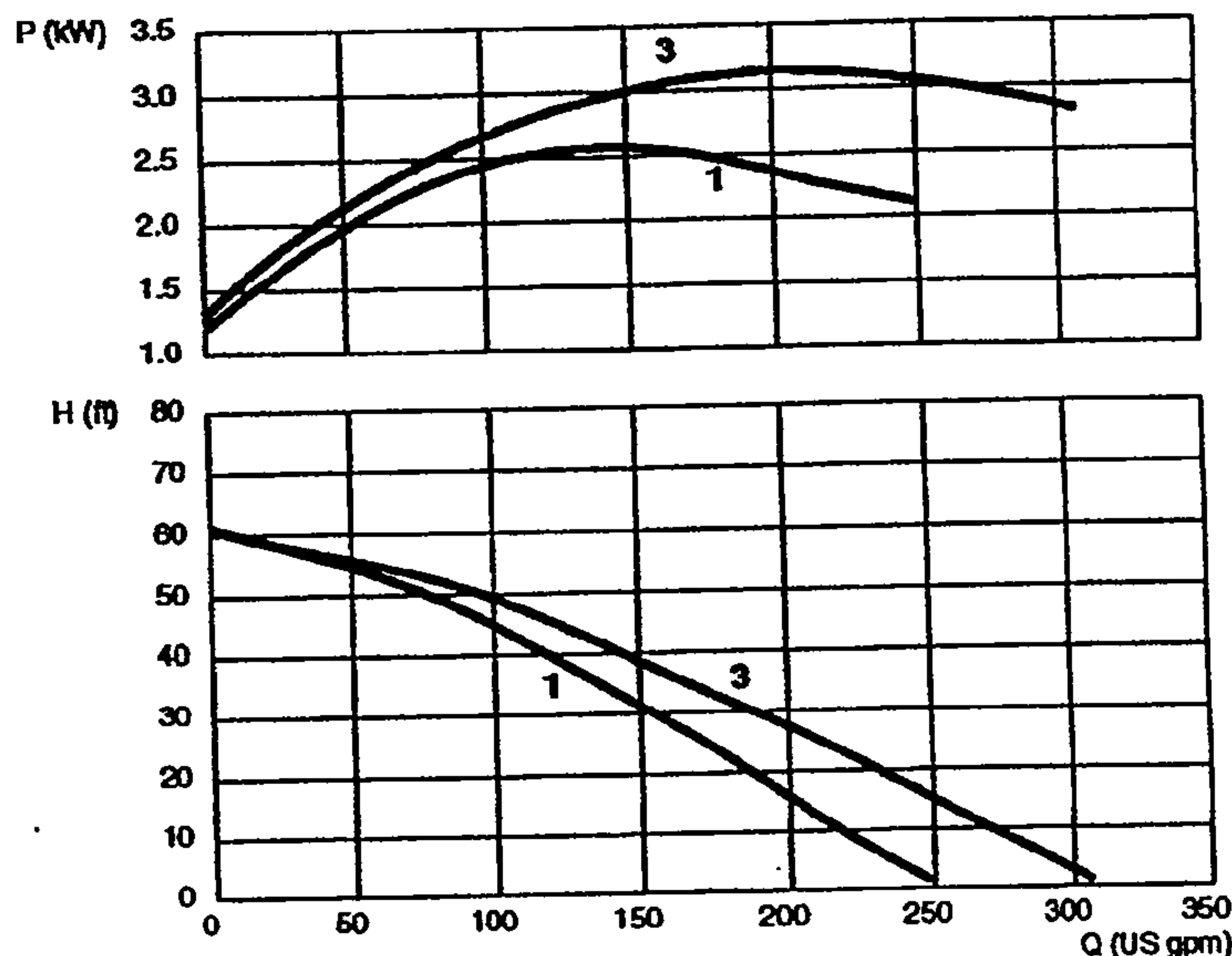
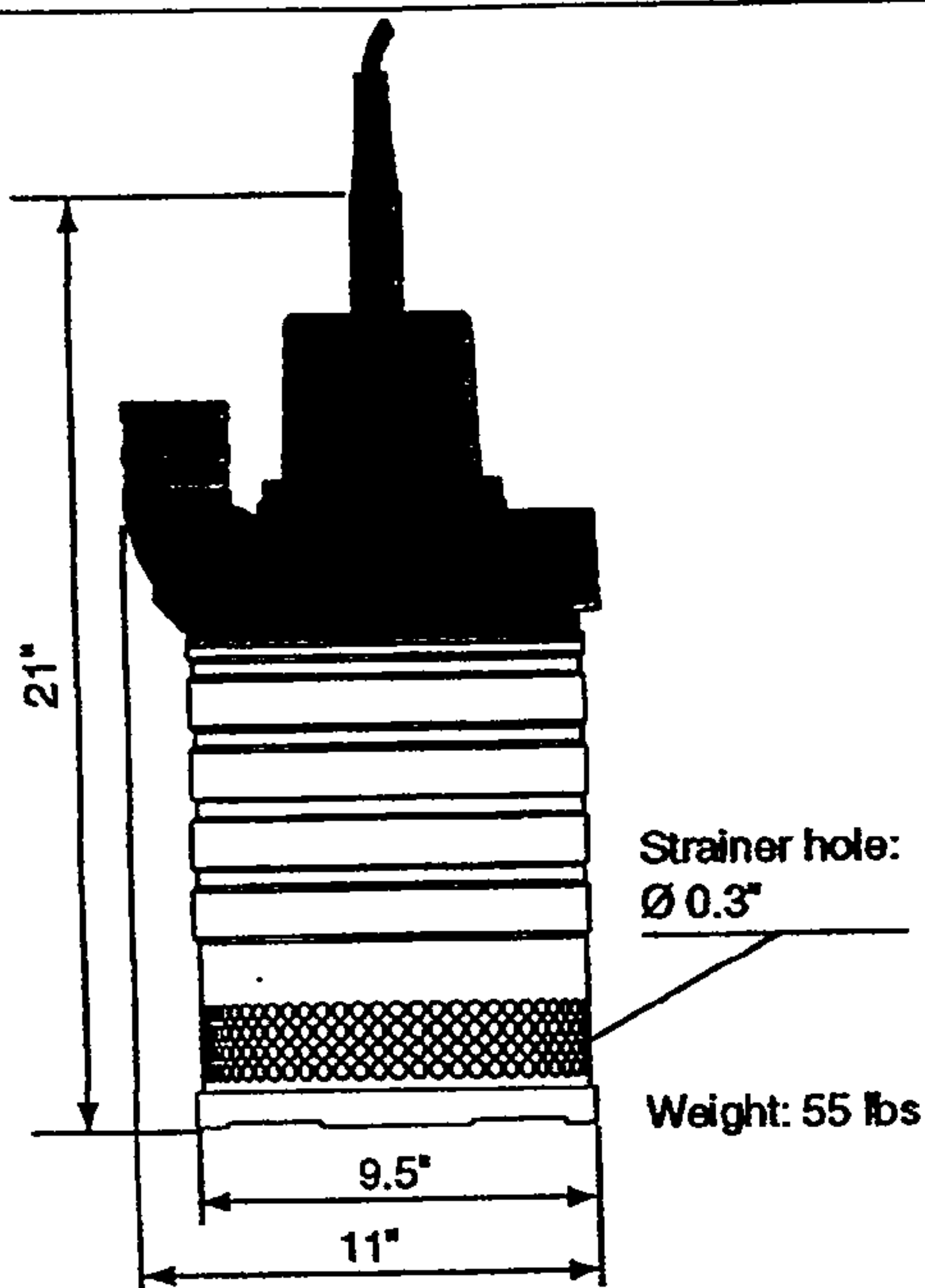
ump by Cable entry protection sleeve.



Aquatite - the same shaft seal fits all our drainage and sludge pumps.



Functional design with built-in starter and motor protection for enhanced reliability.

NETTE
ical submersible drainage pump
60 Hz
GRINDEX
PROLINE
www.grindexpumps.com


The curves have been designed according to ISO 2548C

Pump types

- 1: single phase
- 3: 3-phase

Classification

Electrical submersible pump
Protection class: IP68
Max. submersion depth: 66 ft

Electrical motor

Single phase: Squirrel cage induction motor with start- and run capacitor
3-phase: Squirrel cage induction motor
Insulation class: F (IEC 85)

| Technical data | | Single phase | 3-phase |
|--------------------|--------|--------------|---------|
| Shaft speed | r.p.m. | 3400 | 3400 |
| HP-rating | hp | 2.5 | 3.5 |
| Max. power cons. | kW | 2.6 | 3.1 |
| Rated current A at | 230 V | 12 | 9.5 |
| | 460 V | | 4.5 |
| | 575 V | | 3.6 |

Other voltages on request

Motor protector

Single phase: Temperature guard with a thermal contact in the stator, airvalve
3-phase: Phase sequence control, phase failure guard, temperature guard with thermal contacts in the stator, airvalve (= SMART-system)

Power cable

H07RN-F, length 66 ft
Single phase: 3x2.5 mm²
3-phase: 4x1.5 mm²


GRINDEXpumps

18524 South 81st Avenue, Tinley Park, IL 60477. Tel: (708) 532-9988, Fax: (708) 532-8767
www.grindexpumps.com, e-mail: info@grindexpumps.com

Shaft seals

Double mechanical face seals with an oil compartment between the seals
Material lower seal: Silicon carbide - silicon carbide
Material upper seal: Carbon - silicon carbide

Bearings

Ball bearings with C3 clearance

Discharge connections

3" NPT

Materials

| | |
|-----------------|--------------------------------|
| Casted parts | Aluminium |
| Outer casing | Stainless steel |
| Motor shaft | Stainless steel |
| Impeller | Cr-alloyed white cast iron |
| Screws and nuts | Stainless steel |
| Diffusers | Polyurethane or nitrile rubber |

Accessories

Low suction collar
Zinc anodes
Float switch

Limitations

Max. submersion depth: 66 ft
Max. liquid temperature: 104°F
Max. liquid density: 68 lbs/ft³
pH of the liquid: 5-8

John MacKenzie

From: John MacKenzie
Sent: Thursday, April 23, 2009 1:29 PM
To: Curtis Cherne (ccherne@cabq.gov)
Subject: One Ten Richmond (K16/D71)
Attachments: scan0435.pdf; 110sheet2.pdf; 110sheet1.pdf

Curtis,

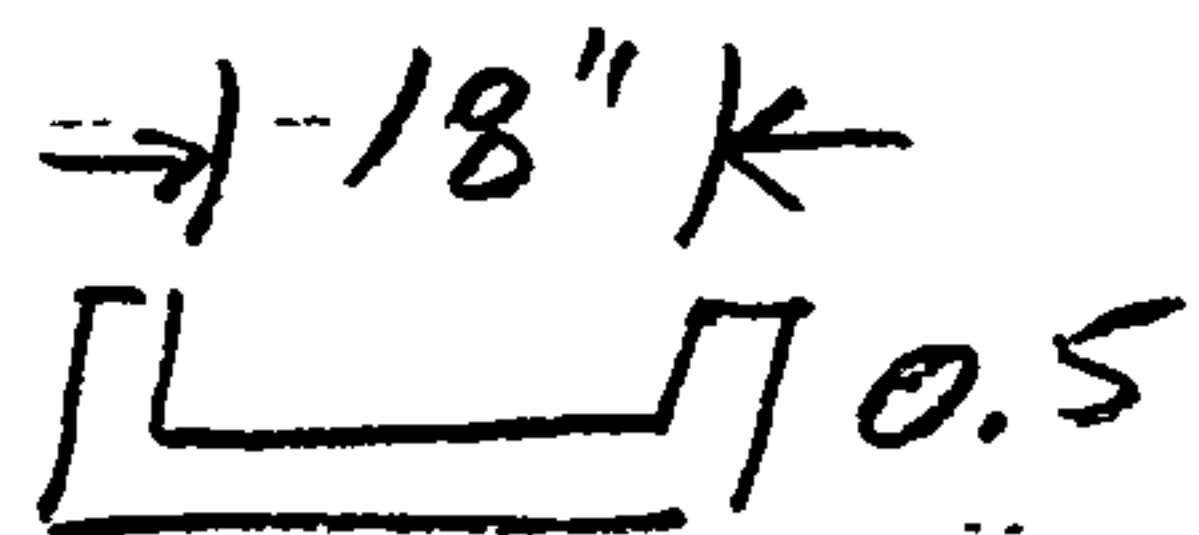
Briefly, my calculations for the new 18-inch sidewalk culvert at the referenced site (SW corner of the site) that we discussed yesterday are attached. With Manning's it can carry 2.16 cfs and with the weir equation it can accept 1.54 cfs. The approved plan is also attached. In the upper left corner of sheet two it shows that the south part of the roof and the front (west) sidewalk all drain to the street thru that culvert with a developed flow of 1.28 cfs for the 100-year storm. Sheet 1 of the plan shows exactly where the new sidewalk culvert is supposed to be located to receive roof flows from the downspout (it was supposed to be a 24-inch culvert). The 12-inch culvert at the midpoint of the site's frontage onto Richmond is supplemental (the SW corner one can already carry all of this on-site basin's runoff) to help drain nuisance water that falls directly on the sidewalk in front of the condos instead of it draining all along the internal private sidewalk to the SW corner culvert, so there should not be capacity issues if the contractor has replaced the middle 12-inch culvert with two 4-inch pipe thru the curb. If they plug for some reason the flows would just continue south and go out the new 18-inch SW culvert.

Do you want me to formally submit this now, or just include it with my as-builts?

*John MacKenzie, PE
Mark Goodwin and Associates, PA
Phone: 505-828-2200
Fax: 505-797-9539
2008 ACEC/NM Small Firm Engineering Excellence Award Winner*

Nob Hill Condos K16/D71
One Ten Richmond

Capacity of 18" x 6" sidewalk culvert



$$\begin{aligned} \text{Area} &= 1.5 \times 0.5 = 0.75 \text{ ft}^2 & \text{WP} &= 2.5' \\ S &= 0.02 & n &= 0.012 & R_H &= \frac{0.75}{2.5} = 0.3 \end{aligned}$$

$$Q = \frac{1.49}{n} (A) R_H^{3/2} S^{1/2} = \frac{1.49}{0.012} \cdot 0.75 (0.3)^{3/2} 0.02^{1/2}$$

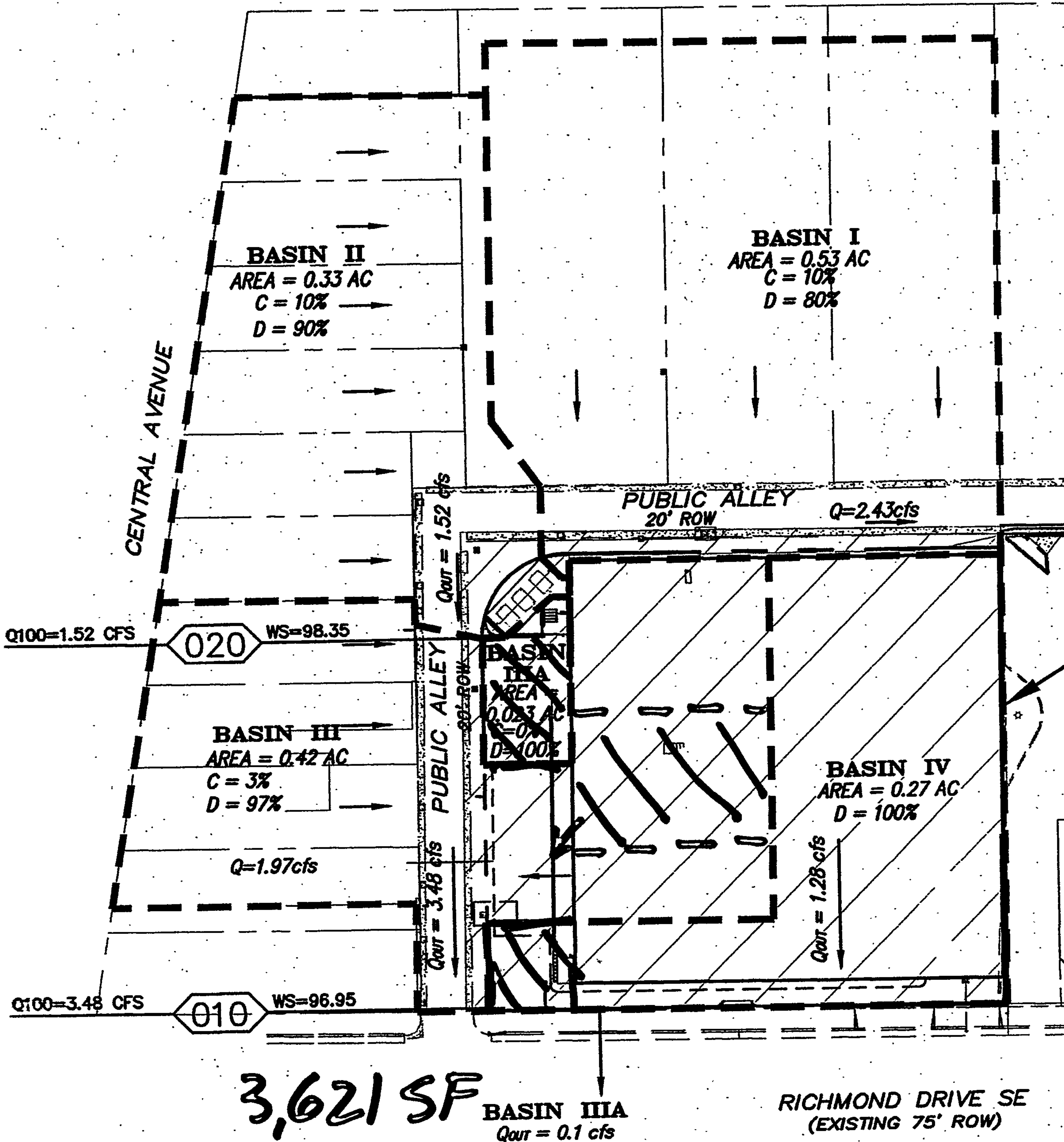
$$Q = 2.16 \text{ cfs}$$

$$Q = CL H^{3/2}$$

$$Q = 2.9 (1.5 \times 0.5)^{3/2}$$

$$Q = 1.54 \text{ cfs}$$

BRYN MAWR DRIVE





D. Mark Goodwin & Associates, P.A.
Consulting Engineers

P.O. BOX 90606, ALBUQUERQUE, NM 87199
(505) 828-2200 FAX 797-9539

~ 2008 ACEC/NM Award Winner for Engineering Excellence, Small Firm ~

May 19, 2009

Mr. Curtis Cherne, PE
Hydrology Department
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

Re: Condos @ 110 Richmond (K-16 / D-71) As-built Certification with New Information

Dear Mr. Cherne:

We have performed a supplemental evaluation of the hydraulic condition along the north side of the on-site portion of the site due to changed conditions relative to the approved plan (dated 12/19/07). This drainage basin area covers all of the north side's private parking spaces, except for those parts of the spaces that are covered by roof. The covered spaces drain through a downspout that discharges directly north into the alley and not to the private parking area. This private parking area was originally designed to be collected in a east-west running trench drain that would outfall to Richmond by gravity. Contrary to the original drainage basin plan, there is also a small additional area within the building that now drains by internal piping to this north-side parking area. During construction it became apparent that the as-built features of the project would preclude gravity discharge of the trench drain directly to the street, so now a sump pump would have to be installed to drain the parking area. I have determined that now the total area draining to the pump is 3,621 SF. I ran AHYMO on this area to find that the discharge during the 100-year storm is 0.43 cfs (see attached), which is also equal to 192 gpm.

TP Pump was consulted and they recommended a Grindex Minette 3 HP submersible sump pump that is readily capable of receiving and grinding waste objects in the runoff water (specs. attached). It can pump up to 230 gpm under the relatively low-head application we have at this site. The pump will discharge into the new 18-inch sidewalk culvert where the trench drain was to originally discharge.

As discussed with you previously, this project will be cared for by an on-the-job maintenance worker who will be constantly monitoring the pumps performance as part of his daily routine.

Please contact me if I can be of further assistance.

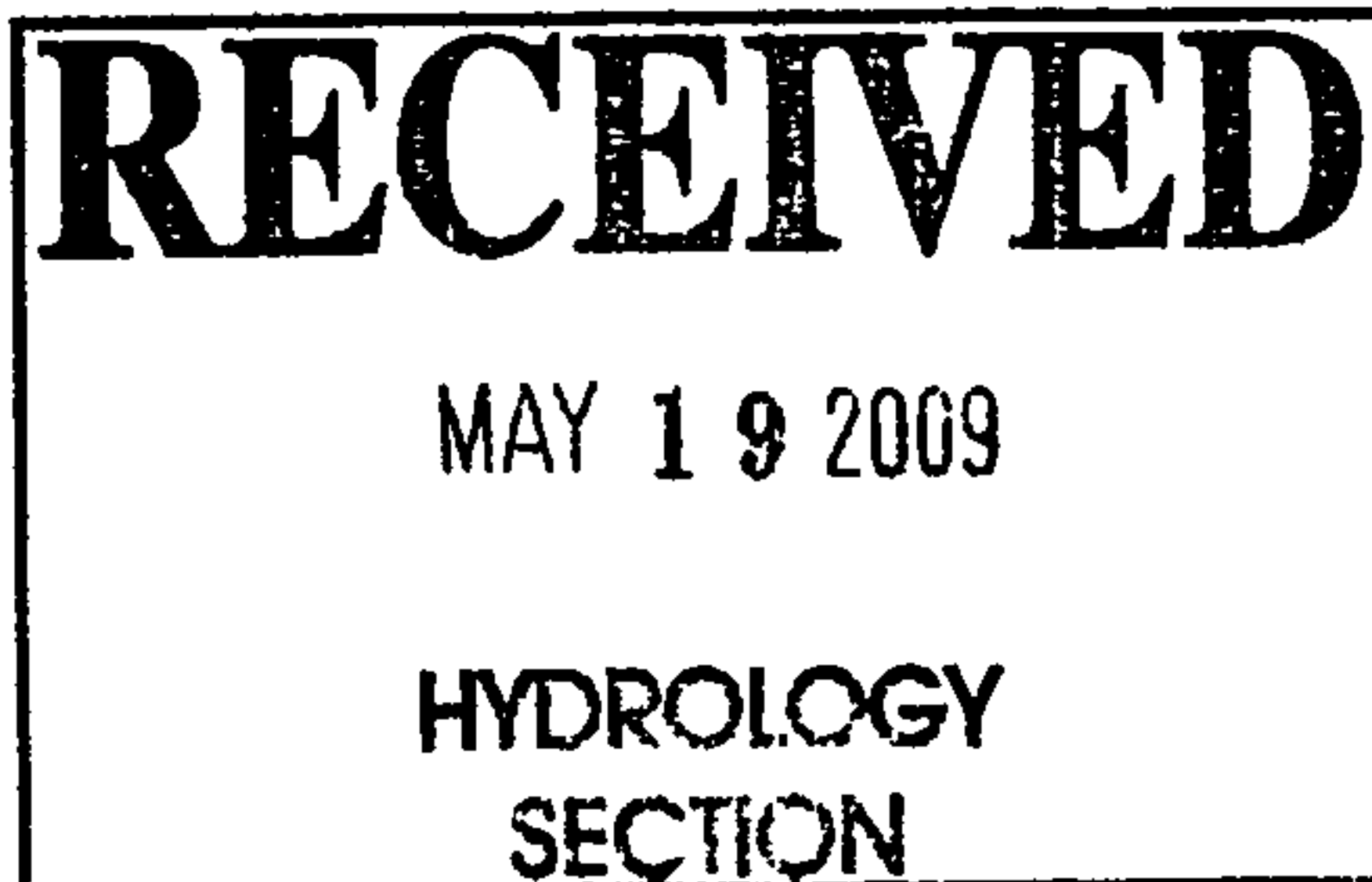
Sincerely,

MARK GOODWIN & ASSOCIATES, PA

John M. MacKenzie, PE
President

JMM/la

Attachment



CITY OF ALBUQUERQUE

Planning Department

Richard Dineen, Director



December 20, 2007

John MacKenzie, PE
Mark Goodwin Engineers
P.O. Box 90606
Albuquerque, NM 87199

**RE: Drainage Plan for Nob Hill Condos,
K16/D71**

Dear John MacKenzie, PE:

The drainage plan received on December 19, 2007 the Nob Hill Condos, K16/D71 project is approved. Based upon the information provided in your submittal dated December 19, 2007, the above referenced plan is approved for Building Permit action with the constraint that no roof drainage be directed to a public sidewalk.

This project requires a National Pollutant Discharge Elimination System (NPDES) permit. In addition to submitting an NOI to the EPA and preparing a SWPPP, please send a copy of the SWPPP on a CD in Adobe PDF format to the following address:

P.O. Box 1293

Albuquerque

New Mexico 87103

Department of Municipal Development
Storm Drainage Division
P.O. Box 1293, One Civic Plaza, Rm. 301
Attn: Kathy Verhage
Albuquerque, NM 87103

www.cabq.gov

If you have any questions, you can contact me at 924-3986.

Sincerely,

Bradley L. Bingham, PE
Principal Engineer, Planning Dept.
Development and Building

Services
PLO:BLB

C: file



City of Albuquerque

Planning Department

Construction Management

INTEROFFICE MEMORANDUM

December 20, 2007

TO: Brad Bingham

FROM: Paul Olson *PLC*

SUBJECT: Nob Hills Condos, K16/D71

I have reviewed the above project and it appears to meet City of Albuquerque requirements. I recommend approval of the drainage plan for Building permit.

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: One Ten Richmond (Nob Hill Condos)

DRB #: _____

EPC#: _____

ZONE MAP/DRG. FILE #: K16/D71

WORK ORDER#: _____

LEGAL DESCRIPTION: Lot 1-A, 1-B 2 & 3 Blk 40 University heights subdivision

CITY ADDRESS: 110 Richmond SE

ENGINEERING FIRM: Mark Goodwin & Associates, PA

ADDRESS: PO Box 90606

CITY, STATE: Albuquerque, NM

CONTACT: John MacKenzie

PHONE: 828-2200

ZIP CODE: 87199

OWNER: _____

ADDRESS: _____

CITY, STATE: _____

CONTACT: _____

PHONE: _____

ZIP CODE: _____

ARCHITECT: James C. Lewis Architect General Design, Inc.

ADDRESS: 1620 Central Avenue SE

CITY, STATE: Albuquerque, NM

CONTACT: Phil Lightle

PHONE: 247-1529

ZIP CODE: 87106

SURVEYOR: Surv-Tek

ADDRESS: 9384 Valley View Drive

CITY, STATE: Albuquerque, NM

CONTACT: Russ Hugg

PHONE: 897-3366

ZIP CODE: 87114

CONTRACTOR: _____

ADDRESS: _____

CITY, STATE: _____

CONTACT: _____

PHONE: _____

ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

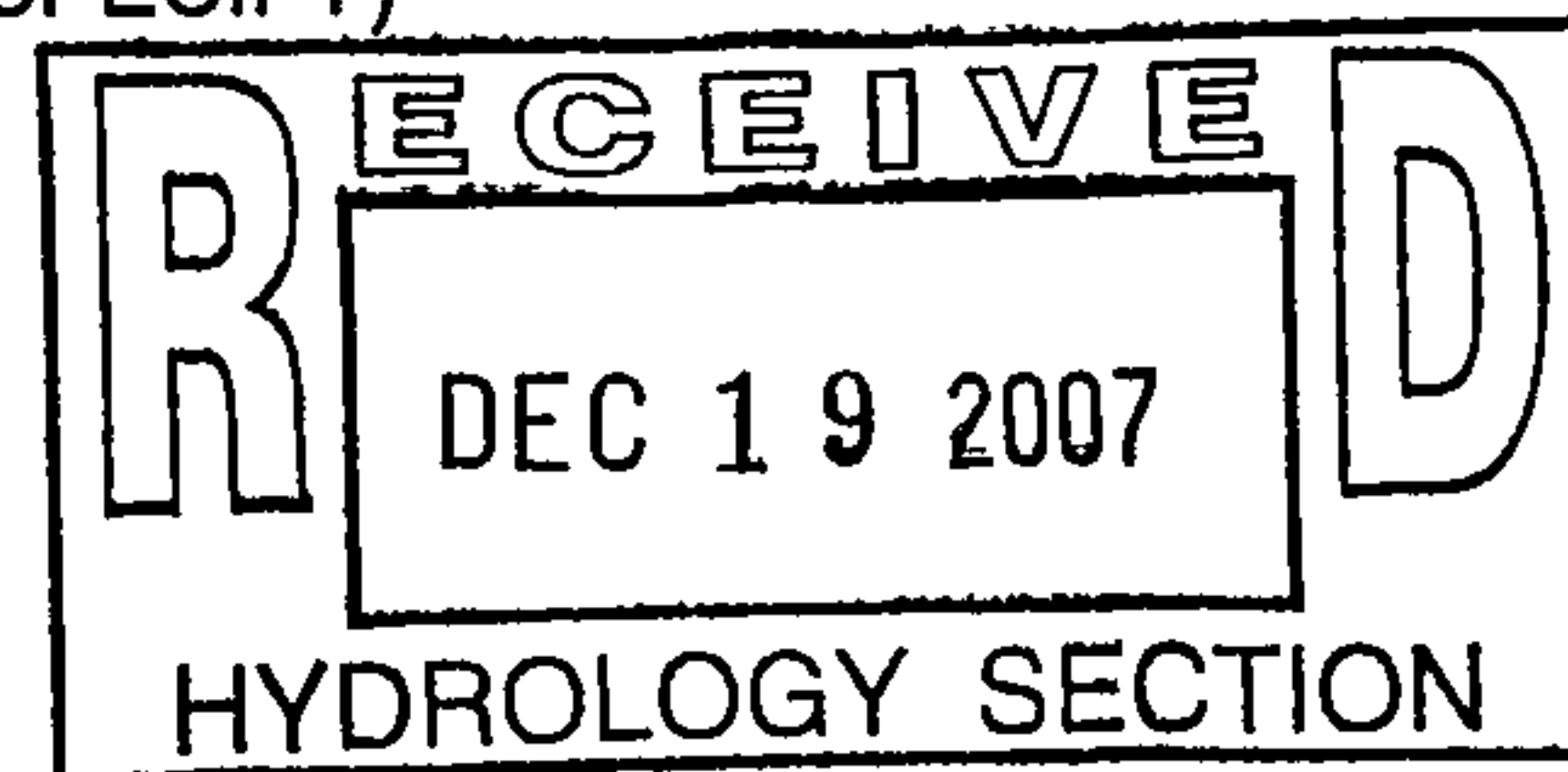
- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL, **REQUIRES TCL or equal**
- ☒ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEERS CERTIFICATION (TCL)
- ☐ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ☐ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

- ☐ SIA / FINANCIAL GUARANTEE RELEASE
- ☐ 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 (PERM.)
- ☐ CERTIFICATE OF OCCUPANCY (TEMP.)
- ☒ GRADING PERMIT APPROVAL
- ☒ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED



DATE SUBMITTED: December 19, 2007

BY: John MacKenzie

JMM

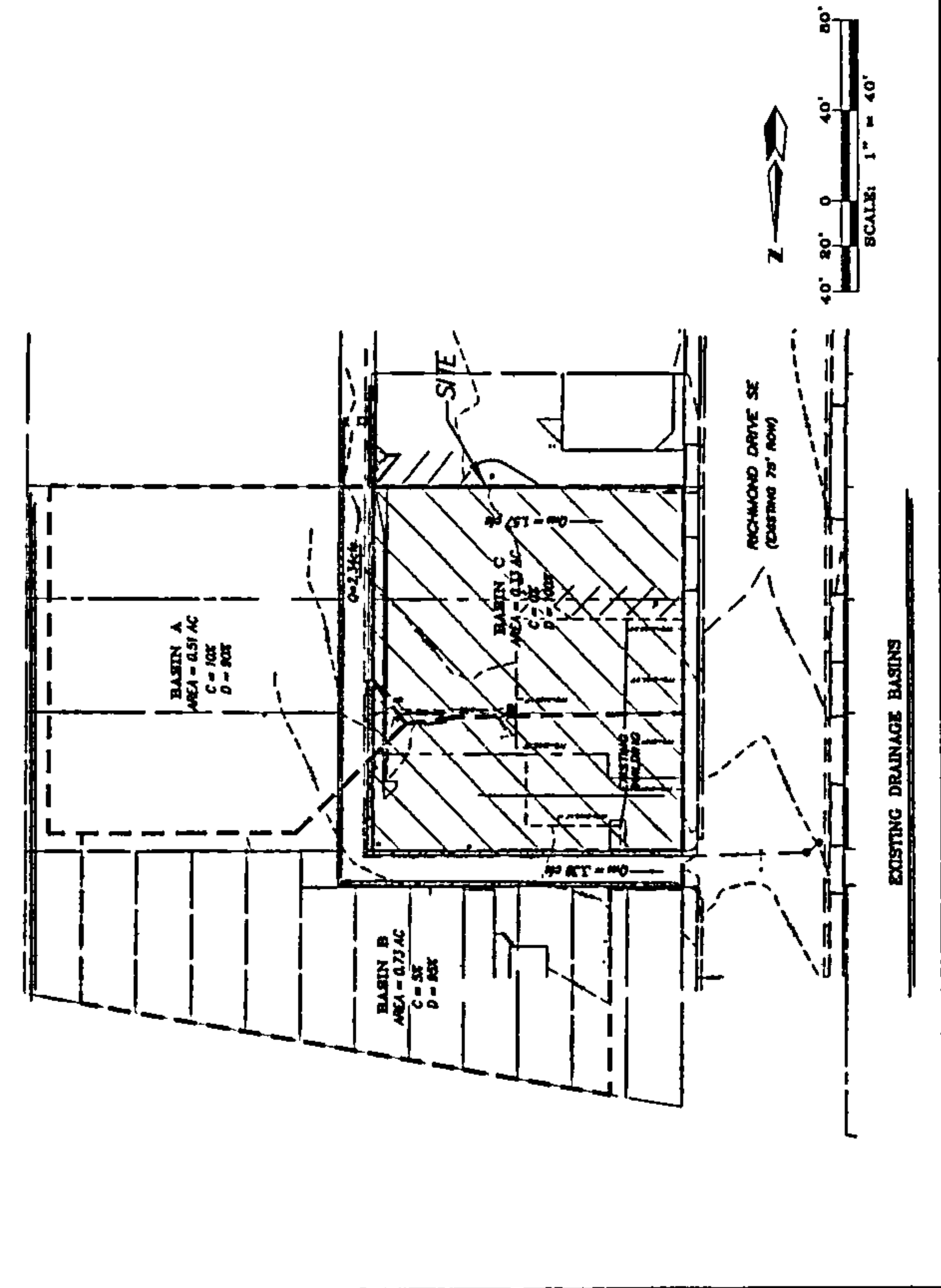
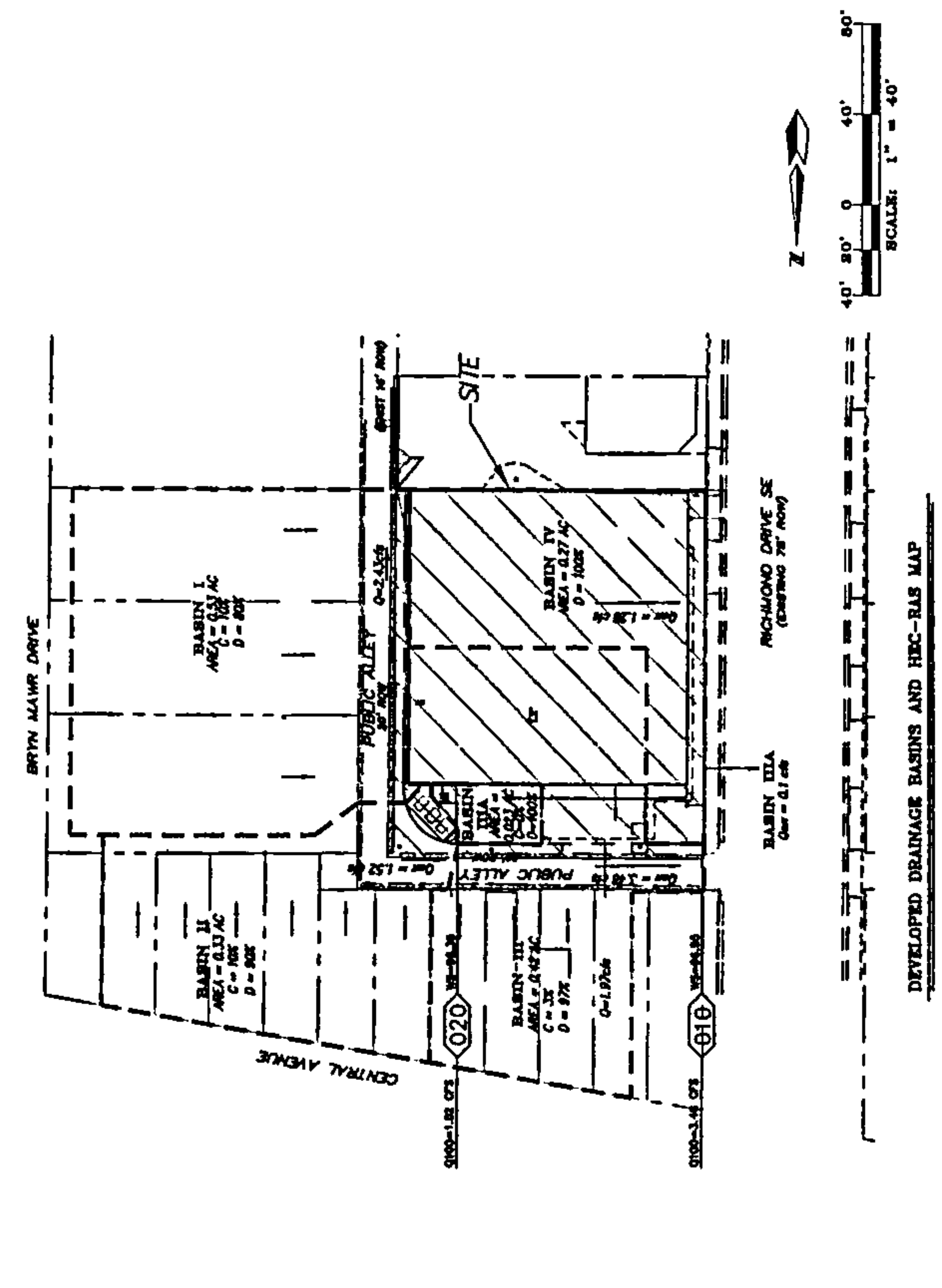
Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.



N

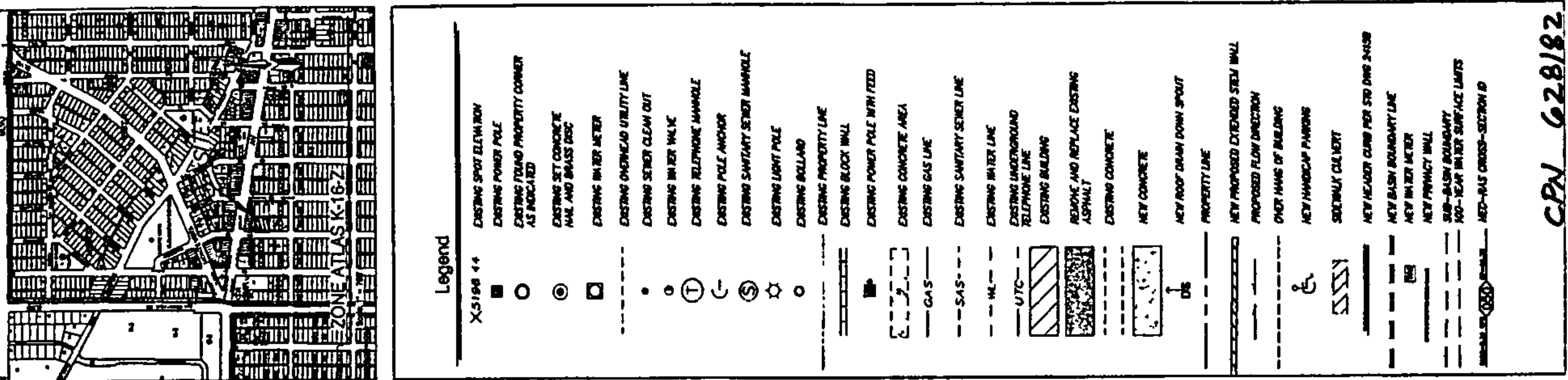
(0.30)

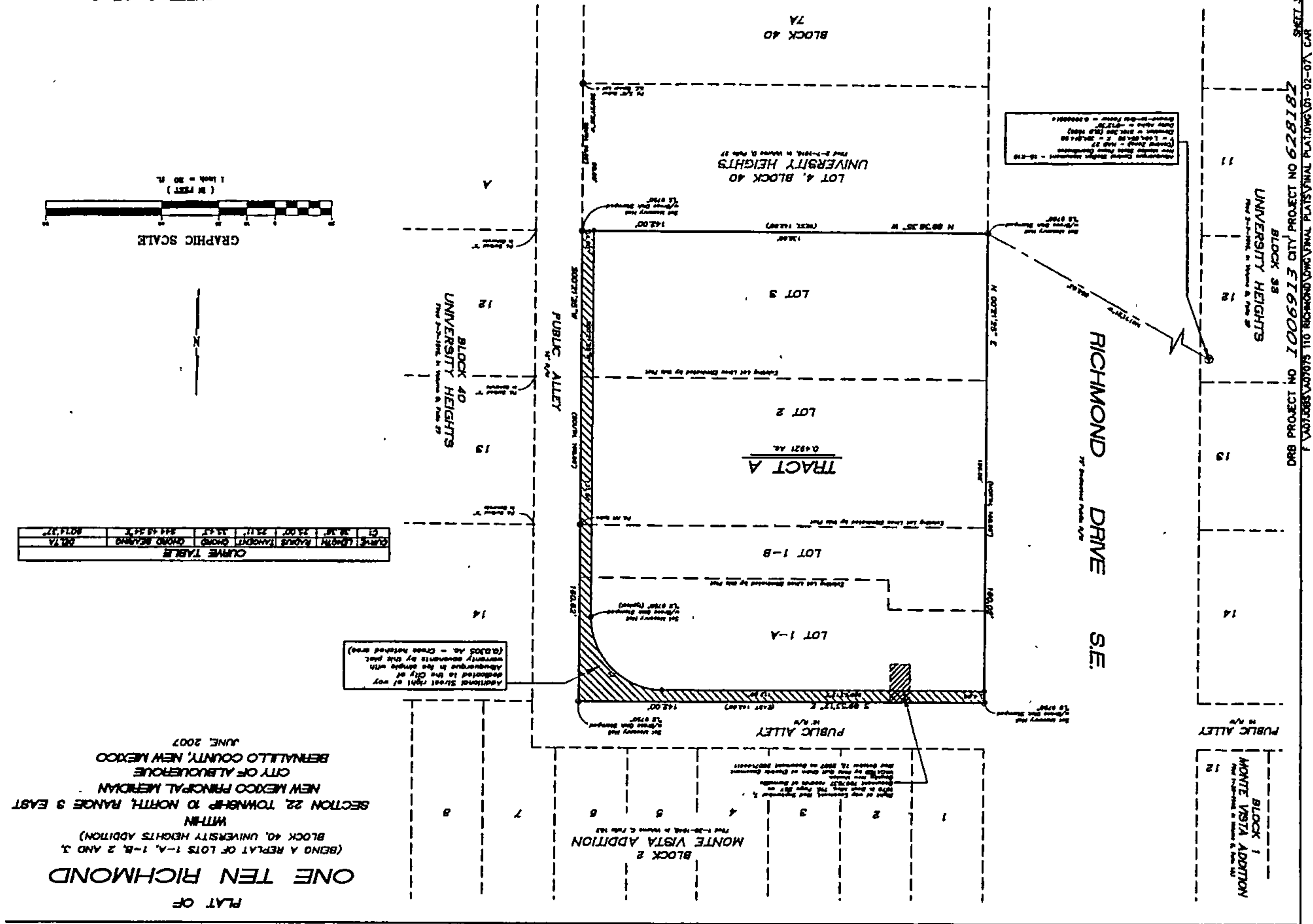


NOTES

1. TOPOGRAPHIC SURVEY PROVIDED BY SURVITEK, FEBRUARY 2007.
2. ALL CONSTRUCTION MATERIALS SHALL BE IN ACCORDANCE WITH CDA STANDARD SPECIFICATIONS.
3. ALL ROOF DRAINS AND DOWN SPOUTS SHALL DISCHARGE ONTO OR DRAIN DIRECTLY TO PUBLIC RIGHT OF WAY.
4. ALL OVERHEAD AND UNDERGROUND UTILITIES MAY NOT BE SHOWN. CONTRACTOR IS RESPONSIBLE FOR LOCATING SUCH UTILITIES TO AVOID CONFLICT.
5. RUNOFF FROM SIDEWALK ADJACENT TO BUILDING SHALL SUFFICIENTLY DRAIN ONTO ADJACENT PUBLIC SIDEWALK THRU MINIMUM 4" DIA. HOLES IN BASE OF PERIMETER PRIVACY WALL AT MINIMUM SPACING OF 10' ON CENTER.
6. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS BEFORE INITIATING CONSTRUCTION WORK.

ONLY FOR INFORMATION





PLAT OF
ONE TEN RICHMOND

(BEING A REPLAT OF LOTS 1-A, 1-B, 2 AND 3,
BLOCK 40, UNIVERSITY HEIGHTS ADDITION)

WITHIN

SECTION 22, TOWNSHIP 10 NORTH, RANGE 3 EAST
NEW MEXICO PRINCIPAL MERIDIAN

CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JULY, 2007

LEGAL DESCRIPTION

Lots numbered One-A (1-A) and One-B (1-B) in Block numbered Forty (40) of the UNIVERSITY HEIGHTS ADDITION to the City of Albuquerque, New Mexico, as the same is shown and designated on the Map of said Addition, filed in the Office of the County Clerk of Bernalillo County, New Mexico, on July 30, 1972, in Plat Book 86, Folio 184.

AND

Lots numbered Two (2) and Three (3) in Block numbered Forty (40) of the UNIVERSITY HEIGHTS ADDITION to the City of Albuquerque, New Mexico, as the same is shown and designated on the Map of said Addition, filed in the Office of the County Clerk of Bernalillo County, New Mexico, on February 7, 1916.

Above Parcel contain 0.8226 acres gross (22,784 square feet), more or less.

FREE CONSENT AND DEDICATION

SURVEYED AND REPLATED and now comprising "PLAT OF ONE TEN RICHMOND (BEING A REPLAT OF LOTS 1-A, 1-B, 2 AND 3, UNIVERSITY HEIGHTS ADDITION) WITHIN SECTION 22, TOWNSHIP 10 NORTH, RANGE 3 EAST, NEW MEXICO PRINCIPAL MERIDIAN, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO, is with the free consent of and in accordance with the wishes and desires of the undersigned owner(s) and proprietor(s). Said owner(s) and proprietor(s) do hereby warrant that they hold among them complete and indisputable title in fee simple to the land subdivide. Said owner(s) and proprietor(s) do hereby dedicate the additional street right of way as shown herein, to the City of Albuquerque in fee simple with warranty covenants. Said owner(s) and proprietor(s) do hereby consent to all of the foregoing and do hereby certify that they are so authorized to act.

CHANDLER

110 Richmond LLC,
a New Mexico Limited Liability Company

By:

Kenny Hinkes, Managing Member

ACKNOWLEDGMENT

STATE OF NEW MEXICO
COUNTY OF BERNALILLO SS

The foregoing instrument was acknowledged before me this _____

day of _____, 2007, by Kenny Hinkes, Managing Member
of 110 Richmond, LLC

Notary Public

DOCUMENTS USED IN THE PREPARATION OF THIS SURVEY

- Plat entitled "A PLAT OF LOT 7A, BLOCK 40 OF UNIVERSITY HEIGHTS, SITUATE WITHIN SECTION 22, T 10 N, R 3 E, N.M.P.M., CITY OF ALBUQUERQUE, NEW MEXICO", filed September 1, 1995, in Volume 85C, Folio 334, records of Bernalillo County, New Mexico.
- Plat entitled "SUMMARY PLAT OF LOTS 10 AND 11 IN BLOCK 40 OF UNIVERSITY HEIGHTS ADDITION, ALBUQUERQUE, NEW MEXICO", filed May 11, 1981, in Volume 81B, Folio 187, records of Bernalillo County, New Mexico.
- Plat entitled "LAND DIVISION PLAT OF LOT 1, BLOCK 40, OF UNIVERSITY HEIGHTS, AN ADDITION TO THE CITY OF ALBUQUERQUE, NEW MEXICO, NOW BEING LOTS 1-A AND 1-B, OF SAID ADDITION, ALBUQUERQUE, NEW MEXICO", filed July 30, 1972, in Volume 86, Folio 184, records of Bernalillo County, New Mexico.
- Plat entitled "REPLAT OF BLOCK 3, MONTEVERDE ADDITION, ALBUQUERQUE, NEW MEXICO", filed January 30, 1946, in Volume 3, Folio 183, records of Bernalillo County, New Mexico.
- Plat entitled "PLAT OF UNIVERSITY HEIGHTS, AN ADDITION TO THE CITY OF ALBUQUERQUE", filed February 7, 1916, in Volume 0, Folio 27, records of Bernalillo County, New Mexico.
- This Report prepared for this property by First American Title Insurance Company, Commitment for Title Insurance No. 858481-AL16, dated January 8, 2007.

SHEET 2 OF 3

SURVOTEK, INC.

Consulting Surveyors
2801 Valley View Drive, N.E. Albuquerque, New Mexico 87114 Phone 505-897-0800
Fax 505-897-0877

070428 REPLAT.dwg



VICINITY MAP
NOT TO SCALE

GENERAL NOTES

- Bearings are New Mexico State Plane Grid Bearings (Central Zone - NAD83) established at the Albuquerque Central Survey Monument 75-K16.
- Distances are ground.
- Distances along curved lines are lengths.
- Record Plot or Deed bearings and distances, where they differ from those established by this field survey, are shown in parentheses ().
- All corners found in place and held were topped with a brass disk stamped "HUGO L.S. 8750 OR HUGO L.S. 11808" unless otherwise indicated herein.
- All corners that were set are either a 5/8" ruler with cap stamped "HUGO L.S. 8750 OR HUGO L.S. 11808" or a concrete set with brass disk stamped "HUGO L.S. 8750 OR HUGO L.S. 11808" unless otherwise indicated herein.
- This property is subject to all easements pertaining to this property as listed in SCHEDULE B, PART 2 (Easements) of the Title Report prepared for this property by First American Title Insurance Company, Commitment for Title Insurance No. 858481-AL16, dated January 8, 2007.
- U.C.L.S. Log Number 2007231576
- Field surveys were performed during the month of January, 2007.
- City of Albuquerque Zone Atlas Page: K-18-2
- This property is currently zoned "ODR" as shown on the City of Albuquerque Zone Atlas, dated March 14, 2006.

PURPOSE OF PLAT

- Grade 1 Street from 4 existing Lots
- Dedicates the additional street right of way to the City of Albuquerque

TREASURERS CERTIFICATION

This is to certify that taxes are current and paid on the following:

Bernalillo County Treasurer Date

PUBLIC UTILITY EASEMENTS

PUBLIC UTILITY EASEMENTS shown on this plat are granted for the common and joint use of:

- PNM Electric Services for installation, maintenance, and service of underground electrical lines, transformers, and other equipment and related facilities reasonably necessary to provide electrical service.
- PNM Gas Services for installation, maintenance, and service of natural gas lines, valves and other equipment and facilities reasonably necessary to provide natural gas.
- Qwest Corporation for the installation, maintenance, and service of such lines, cables and other related equipment and facilities reasonably necessary to provide communication services, including but not limited to ground pedestals and closures.
- Comcast Cable for the installation, maintenance, and service of such lines, cables, and other related equipment and facilities reasonably necessary to provide Cable TV service.

Included, is the right to build, rebuild, construct, reconstruct, locate, relocate, change, remove, modify, remove, operate, and maintain facilities for the purposes described above, together with the easements to, from, and over said easements, including sufficient working area space for electric transformers, with the right and privilege to trim and remove trees, shrubs or bushes which interfere with the purposes set forth herein. No building, sign, pool (aboveground or subsurface), hot tub, concrete or wood pool decking, or other structure shall be erected or constructed on said easements, nor shall any well be drilled or operated thereon. Property owners shall be solely responsible for correcting any violations of National Electrical Safety Code by construction of poles, decking, or any structure adjacent to or near easements shown on this plat.

Easements for electric transformers/switchgear, as installed, shall extend ten feet (10') in front of transformer/switchgear doors and five feet (5') on each side.

DISCLAIMER

In preparing this plat, PNM Electric Services and Gas Services (PNM) did not conduct a Title Search of the properties shown herein. Consequently, PNM does not waive nor release any easement or easement rights to which it may be entitled.

SECTION 14-14-4-7 PROHIBITION ON PRIVATE RESTRICTIONS ON THE INSTALLATION OF SOLAR COLLECTORS

No property within the area of requested final action shall of any time be subject to a deed restriction, covenant, or binding agreement prohibiting solar collectors from being installed on buildings or erected on the lots or parcels within the area of proposed plat. The foregoing requirement shall be a condition to approval of this plat or site development plan for subdivision.

PLAT OF
ONE TEN RICHMOND

(BEING A REPLAT OF LOTS 1-A, 1-B, 2 AND 3,
BLOCK 40, UNIVERSITY HEIGHTS ADDITION)

WITHIN

SECTION 22, TOWNSHIP 10 NORTH, RANGE 3 EAST
NEW MEXICO PRINCIPAL MERIDIAN

CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JULY, 2007

PROJECT NUMBER _____

Application Number _____

PLAT APPROVAL

Utility Approvals

PNM Gas and Electric Services _____ Date _____

Qwest Corporation _____ Date _____

Comcast _____ Date _____

City Approvals

City Surveyor _____ Date _____

Department of Municipal Development _____ Date _____

Real Property Division _____ Date _____

Environmental Health Department _____ Date _____

Public Engineering, Transportation Division _____ Date _____

Arborea _____ Date _____

Parks and Recreation Department _____ Date _____

Arborea _____ Date _____

City Engineer _____ Date _____

DRB Chairperson, Planning Department _____ Date _____

SURVEYORS CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 8750, hereby certify that this plat of survey was prepared from field notes of an actual ground survey performed by me or under my direct supervision that it meets the Standards for Land Surveys in the State of New Mexico as adopted by the New Mexico State Board of Registration for Professional Engineers and Professional Surveyors; that it meets the minimum requirements for surveys and monuments of the Albuquerque Subdivision Ordinance; that it shows all easements of record; and that it is true and correct to the best of my knowledge and belief.

Russ P. Hugg
N.M.S. No. 8750
July 16, 2007

SHEET 1 OF 3

SURVOTEK, INC.

Consulting Surveyors
2801 Valley View Drive, N.E. Albuquerque, New Mexico 87114 Phone 505-897-0800
Fax 505-897-0877

DRB PROJECT NO 1006913 CITY PROJECT NO 623182

F:\070428\07075 110 RICHMOND\ONE TEN RICHMOND\PLAT\ONE TEN RICHMOND-DR-01.dwg

SHEET 2 OF 3

070428 REPLAT.dwg

[illegible]

[illegible]



D. Mark Goodwin & Associates, P.A.
Consulting Engineers

P.O. BOX 90606, ALBUQUERQUE, NM 87199
(505) 828-2200 FAX 797-9539

July 10, 2008

Mr. Curtis Cherne
Hydrology Department
City of Albuquerque
P.O. Box 1293
Albuquerque, NM 87103

Re: Nob Hill Condos - 110 Richmond (K-16 / D-71)

Dear Mr. Cherne:

As requested, we have performed a supplemental evaluation of the hydraulic condition within the existing public alley located south and downstream of the referenced project. Based upon a meeting we had in the field on June 13, 2008, you wanted this work done to determine if addition improvements were needed to contain runoff in the alley.

From our meeting it was decided that a couple of addition HEC-RAS sections (03 & 04, see attached) were needed about 75 feet south of the southeast corner of the subject site, behind Lot 7A, University Heights Addition (existing day care business). The attached plan is a modified version of one of the previously submitted grading and drainage plan sheets.

As suspected, our work shows that an additional 3" of paving is needed along the back of Lot 7A adjacent to the alley in order to keep flow contained within the alley during the 6-hour, 100-year storm. Our DRC Work Order Plans have been modified accordingly show this proposed work.

Please contact me if I can be of further assistance.

Sincerely,

MARK GOODWIN & ASSOCIATES, PA

A handwritten signature in black ink that reads 'J MacKenzie'. The signature is written in a cursive, flowing style.

John M. MacKenzie, PE
President

JMM/la

Attachment

D. Mark Goodwin and Associates, P.A.
Consulting Engineers

P.O. Box 90606 Albuquerque, NM 87199
(505) 828-2200 (505) 797-9539 fax
e-mail: john@goodwinengineers.com

LETTER OF TRANSMITTAL

TO: Hydrology
DRB - One Stop
Attn: Curtis Cherne

Date: July 10, 2008

RE: One Ten Richmond Nob Hill Condos
(K-16/D-71)

We are sending:

Additional HEC-RAS Sections

| | |
|--|--|
| <input type="checkbox"/> For your Approval | <input checked="" type="checkbox"/> For your information |
| <input type="checkbox"/> As you requested | <input type="checkbox"/> For a Statement |
| <input type="checkbox"/> Request for Bid | <input type="checkbox"/> Pre-Design Meeting |

NOTES:

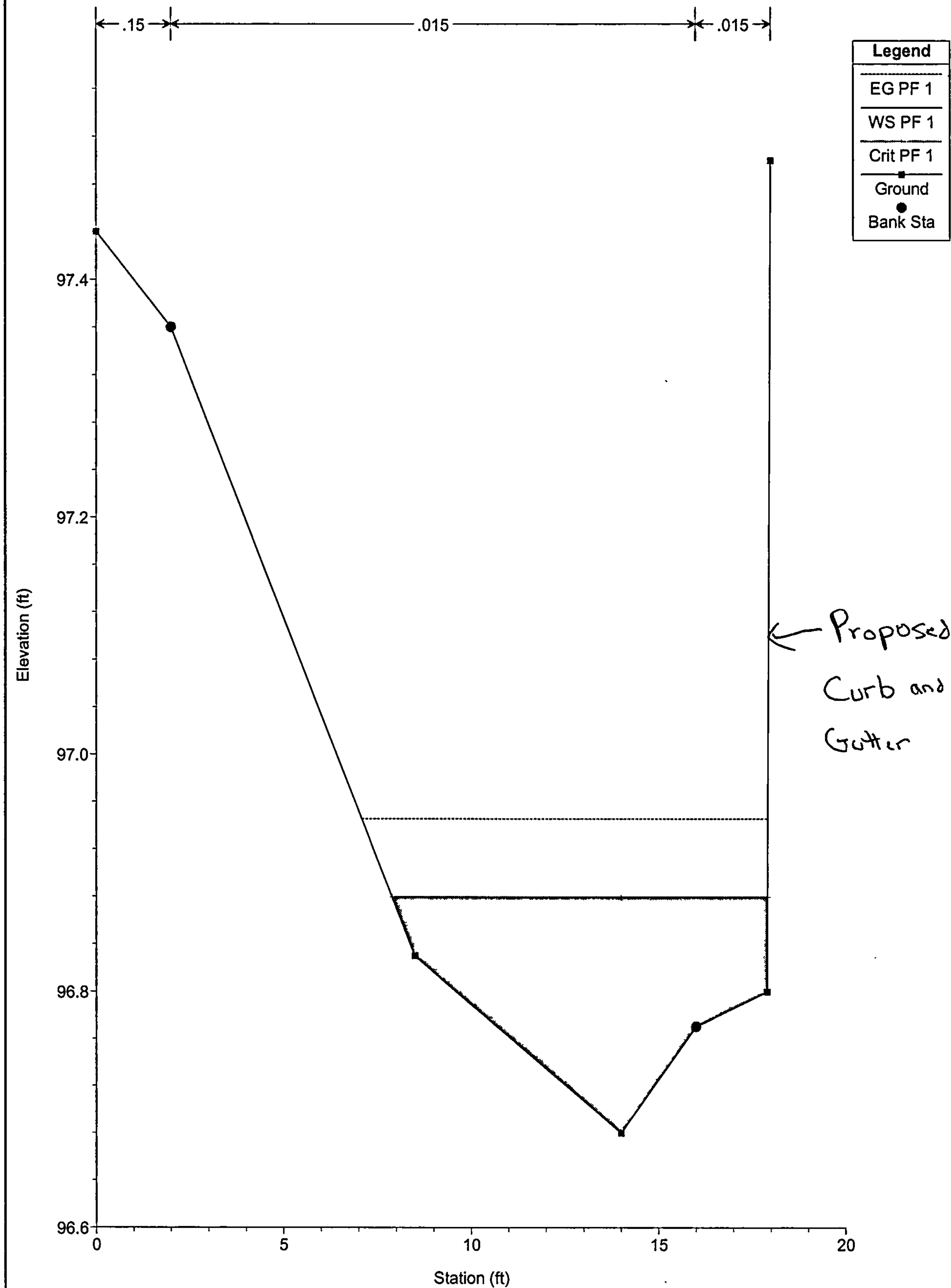
Project Engineer

SIGNED:



Sect 50

110 Richmond East Alley Plan: Plan 01 7/7/2008

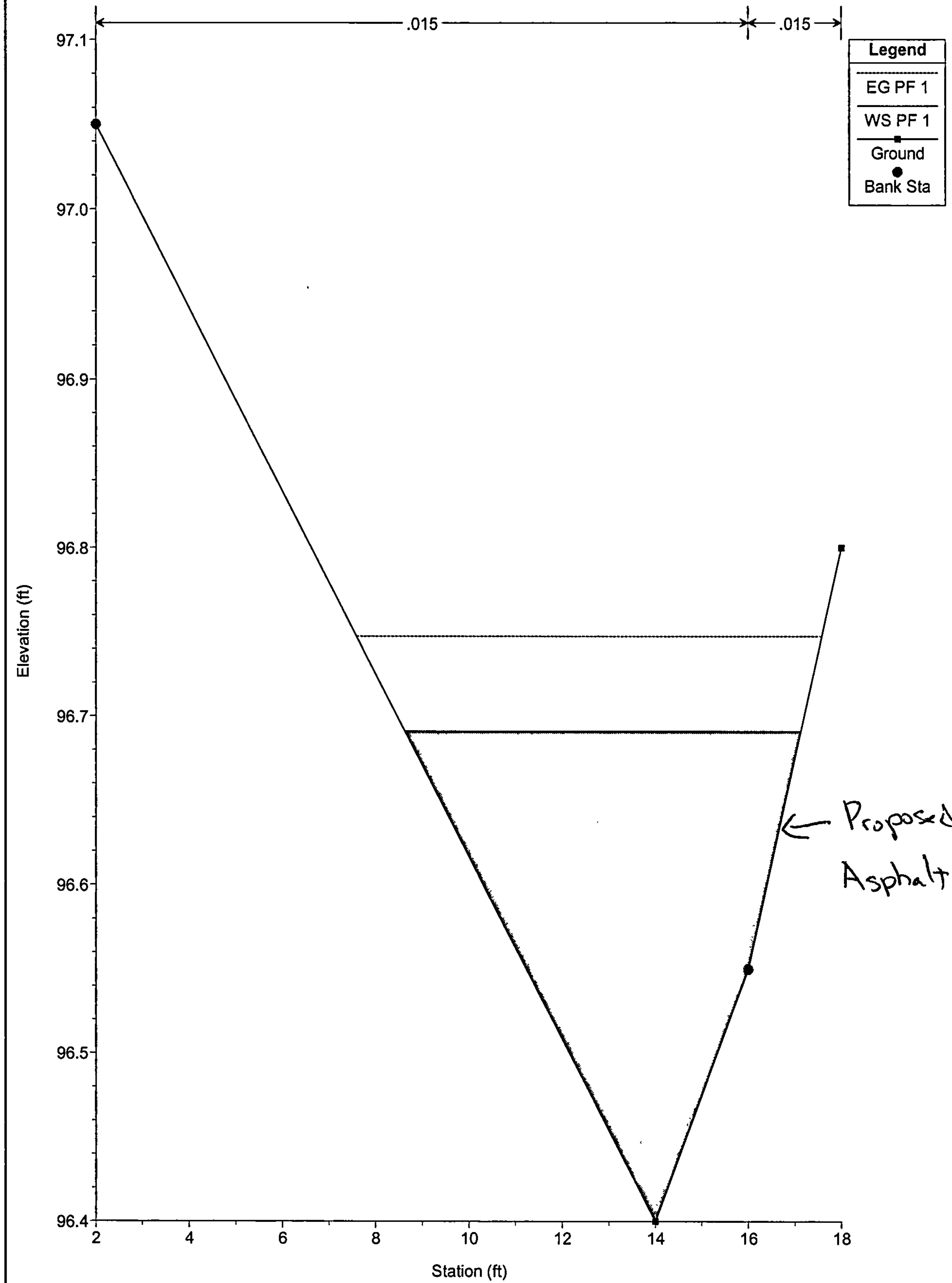


Sect 40

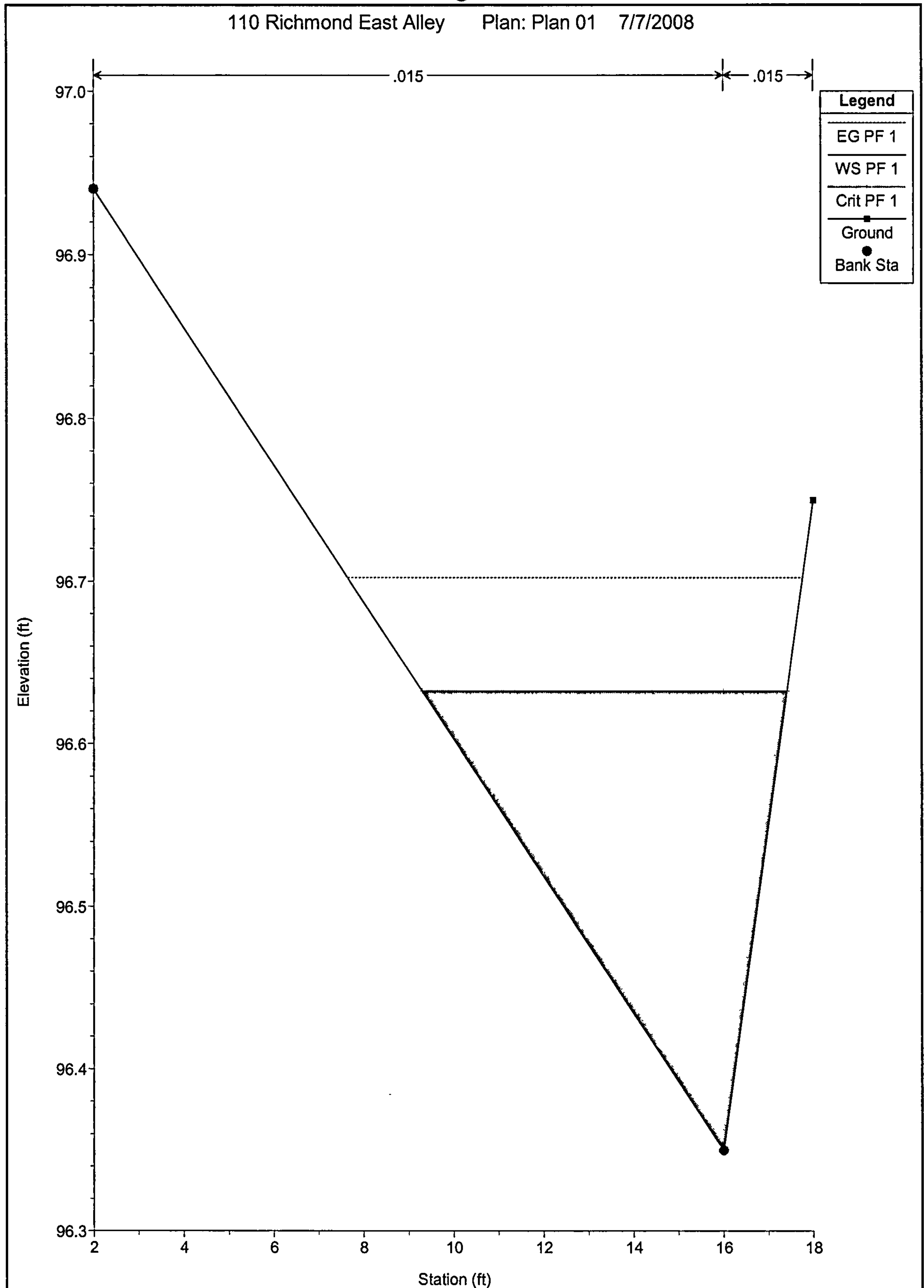
110 Richmond East Alley

Plan: Plan 01

7/7/2008



110 Richmond East Alley Plan: Plan 01 7/7/2008





96.94

96.35

96.75

96.40

96.55

97.05

CURB
EDGE

Cherne, Curtis

From: John MacKenzie [John@goodwinengineers.com]
Sent: Thursday, July 10, 2008 10:02 AM
To: Cherne, Curtis
Subject: One Ten Richmond - Nob Hill Condos (CPN 628182)
Attachments: DEST2080.pdf; MX-3501N_20080710_090955.pdf; MX-3501N_20080625_090331.pdf

Curtis,

This morning these documents are being delivered to address your concerns about flow in the alley behind the site, as we discussed in the field on June 13th.

The additional HEC-RAS sections show we do indeed need to add a 3-inch paving section in order to contain 100-year flows in the alley and not let them escape west into the adjoining day care business. Of course typical nuisance flows should not be a problem.

The final DRC for the WO drawings is set for 3:30 on Tuesday. At that time we can discuss it further, if necessary, or call me beforehand if you need to.

*John MacKenzie, PE
Mark Goodwin and Associates, PA
Phone: 505-828-2200
Fax: 505-797-9539
john@goodwinengineers.com*

7/10/2008

NOB HILL CONDOS HEC-RAS SUMMARY

| Reach | STA | Q Total (cfs) | Min Ch El (ft) | W.S. Elev (ft) | Crit W.S. (ft) | E.G. Elev (ft) | E.G. Slope (ft/ft) | Vel Chnl (ft/s) | Flow Area (sq ft) | Top Width (ft) | Froude # Chl |
|------------|-----|------------------|-------------------|-------------------|-------------------|-------------------|-----------------------|--------------------|----------------------|-------------------|--------------|
| East Alley | 50 | 2.43 | 96.68 | 96.88 | 96.88 | 96.95 | 0.007269 | 2.1 | 1.19 | 10.02 | 1.05 |
| East Alley | 40 | 2.43 | 96.4 | 96.69 | | 96.75 | 0.004225 | 1.93 | 1.29 | 8.5 | 0.84 |
| East Alley | 30 | 2.43 | 96.35 | 96.63 | 96.63 | 96.7 | 0.006269 | 2.13 | 1.15 | 8.11 | 1 |

4-23-09
u

Cherne, Curtis

To: John MacKenzie

Subject: RE: One Ten Richmond (K16/D71)

John,
Looks good. I just spoke with the inspector. Just include it with the as-builts.

Curtis

From: John MacKenzie [mailto:John@goodwinengineers.com]

Sent: Thursday, April 23, 2009 1:29 PM

To: Cherne, Curtis

Subject: One Ten Richmond (K16/D71)

Curtis,

Briefly, my calculations for the new 18-inch sidewalk culvert at the referenced site (SW corner of the site) that we discussed yesterday are attached. With Manning's it can carry 2.16 cfs and with the weir equation it can accept 1.54 cfs. The approved plan is also attached. In the upper left corner of sheet two it shows that the south part of the roof and the front (west) sidewalk all drain to the street thru that culvert with a developed flow of 1.28 cfs for the 100-year storm. Sheet 1 of the plan shows exactly where the new sidewalk culvert is supposed to be located to receive roof flows from the downspout (it was supposed to be a 24-inch culvert). The 12-inch culvert at the midpoint of the site's frontage onto Richmond is supplemental (the SW corner one can already carry all of this on-site basin's runoff) to help drain nuisance water that falls directly on the sidewalk in front of the condos instead of it draining all along the internal private sidewalk to the SW corner culvert, so there should not be capacity issues if the contractor has replaced the middle 12-inch culvert with two 4-inch pipe thru the curb. If they plug for some reason the flows would just continue south and go out the new 18-inch SW culvert.

Do you want me to formally submit this now, or just include it with my as-builts?

John MacKenzie, PE

Mark Goodwin and Associates, PA

Phone: 505-828-2200

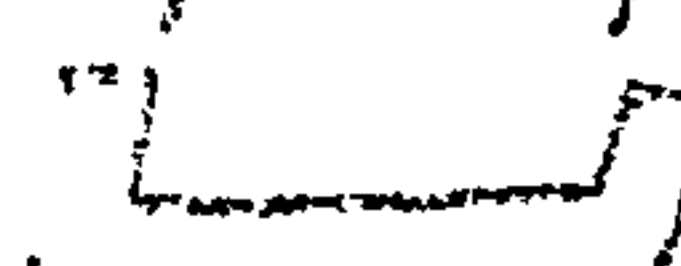
Fax: 505-797-9539

2008 ACEC/NM Small Firm Engineering Excellence Award Winner

4/23/2009

Not Hill (condos) K16/D71
 One Ten Richmond

Capacity of 18" x 6" diameter culvert

→ 18" K
 0.5

$$Area = 1.5 \times 0.5 = 0.75 \text{ ft}^2 \quad WP = 2.5'$$

$$S = 0.02 \quad n = 0.012 \quad R_H = \frac{0.75}{2.5} = 0.3$$

$$Q = \frac{1.49}{n} (A) r_H^{3/2} S^{1/2} = \frac{1.49}{0.012} 0.75 (0.3)^{3/2} 0.02^{1/2}$$

$$Q = 2.16 \text{ cfs}$$

$$Q = CL H^{3/2}$$

$$Q = 2.9 (1.5 \times 0.5)^{3/2}$$

$$Q = 1.54 \text{ cfs}$$

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

(REV. 1/28/2003rd)

PROJECT TITLE: Nob Hill Condos

DRB #: _____

EPC#: _____

ZONE MAP/DRG. FILE #: K16/D71

WORK ORDER#: _____

LEGAL DESCRIPTION: Lot 1-A, 1-B 2 & 3 Blk 40 University heights subdivison

CITY ADDRESS: 110 Richmond SE

ENGINEERING FIRM: Mark Goodwin & Associates, PA

ADDRESS: PO Box 90606

CITY, STATE: Albuquerque, NM

CONTACT: John MacKenzie

PHONE: 828-2200

ZIP CODE: 87199

OWNER: _____

ADDRESS: _____

CITY, STATE: _____

CONTACT: _____

PHONE: _____

ZIP CODE: _____

ARCHITECT: James C. Lewis Architect General Design, Inc.

ADDRESS: 1620 Central Avenue SE

CITY, STATE: Albuquerque, NM

CONTACT: Phil Lightle

PHONE: 247-1529

ZIP CODE: 87106

SURVEYOR: Surv-Tek

ADDRESS: 9384 Valley View Drive

CITY, STATE: Albuquerque, NM

CONTACT: Russ Hugg

PHONE: 897-3366

ZIP CODE: 87114

CONTRACTOR: _____

ADDRESS: _____

CITY, STATE: _____

CONTACT: _____

PHONE: _____

ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

- ☐ DRAINAGE REPORT
- ☐ DRAINAGE PLAN 1st SUBMITTAL, *REQUIRES TCL or equal*
- ☒ DRAINAGE PLAN RESUBMITTAL
- ☐ CONCEPTUAL GRADING & DRAINAGE PLAN
- ☐ GRADING PLAN
- ☐ EROSION CONTROL PLAN
- ☐ ENGINEER'S CERTIFICATION (HYDROLOGY)
- ☐ CLOMR/LOMR
- ☐ TRAFFIC CIRCULATION LAYOUT (TCL)
- ☐ ENGINEERS CERTIFICATION (TCL)
- ☐ ENGINEERS CERTIFICATION (DRB APPR. SITE PLAN)
- ☐ OTHER

CHECK TYPE OF APPROVAL SOUGHT:

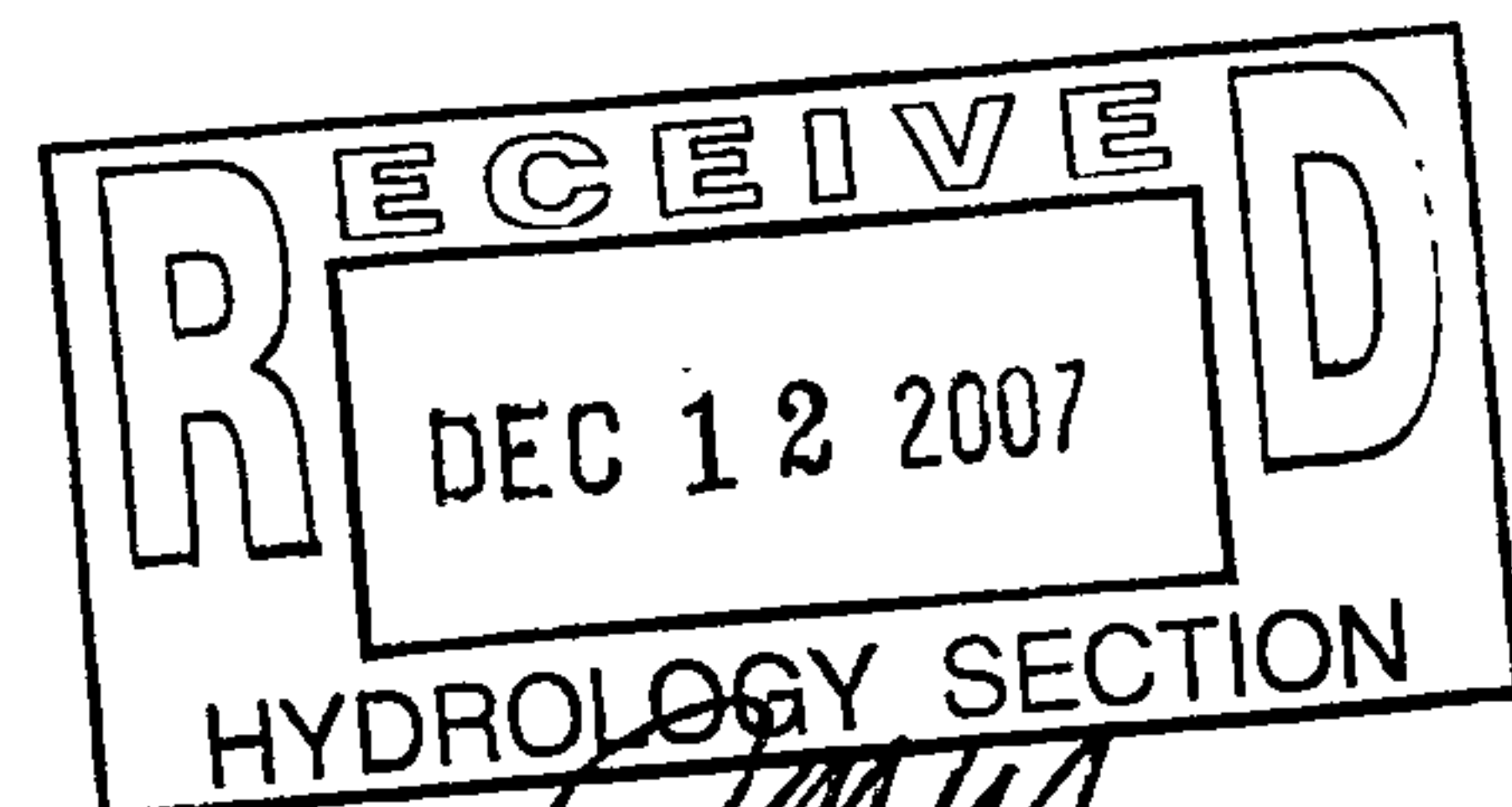
- ☐ SIA / FINANCIAL GUARANTEE RELEASE
- ☐ PRELIMINARY PLAT APPROVAL
- ☐ S. DEV. PLAN FOR SUB'D. APPROVAL
- ☐ S. DEV. PLAN FOR BLDG. PERMIT APPROVAL
- ☐ SECTOR PLAN APPROVAL
- ☐ FINAL PLAT APPROVAL
- ☒ FOUNDATION PERMIT APPROVAL
- ☒ BUILDING PERMIT APPROVAL
- ☐ CERTIFICATE OF OCCUPANCY (PERM.)
- ☐ CERTIFICATE OF OCCUPANCY (TEMP.)
- ☒ GRADING PERMIT APPROVAL
- ☒ PAVING PERMIT APPROVAL
- ☐ WORK ORDER APPROVAL
- ☐ OTHER (SPECIFY)

WAS A PRE-DESIGN CONFERENCE ATTENDED:

- ☐ YES
- ☒ NO
- ☐ COPY PROVIDED

DATE SUBMITTED: December 12, 2007

BY: John MacKenzie



Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location and scope of the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. **Drainage Report:** Required for subdivisions containing more than ten (10) lots or constituting five (5) acres or more.

MO Richmond

1. Calc and curb chand capacity in front of day car

chand dirt ~ 3' ~~left~~ asphalt rth curb

2. construct asphalt turner pile at NE corner of day car to direct runoff to fl wha 15 east side of ~~SE~~ curb

3. construct eslt curb with slope slope at SE corner of 110 Richmond to keep flow on east side of telephone pole.

CC 6-13-00

for

DRC

Submittal

000



MARK GOODWIN

& ASSOCIATES
CONSULTING ENGINEERS

dmg

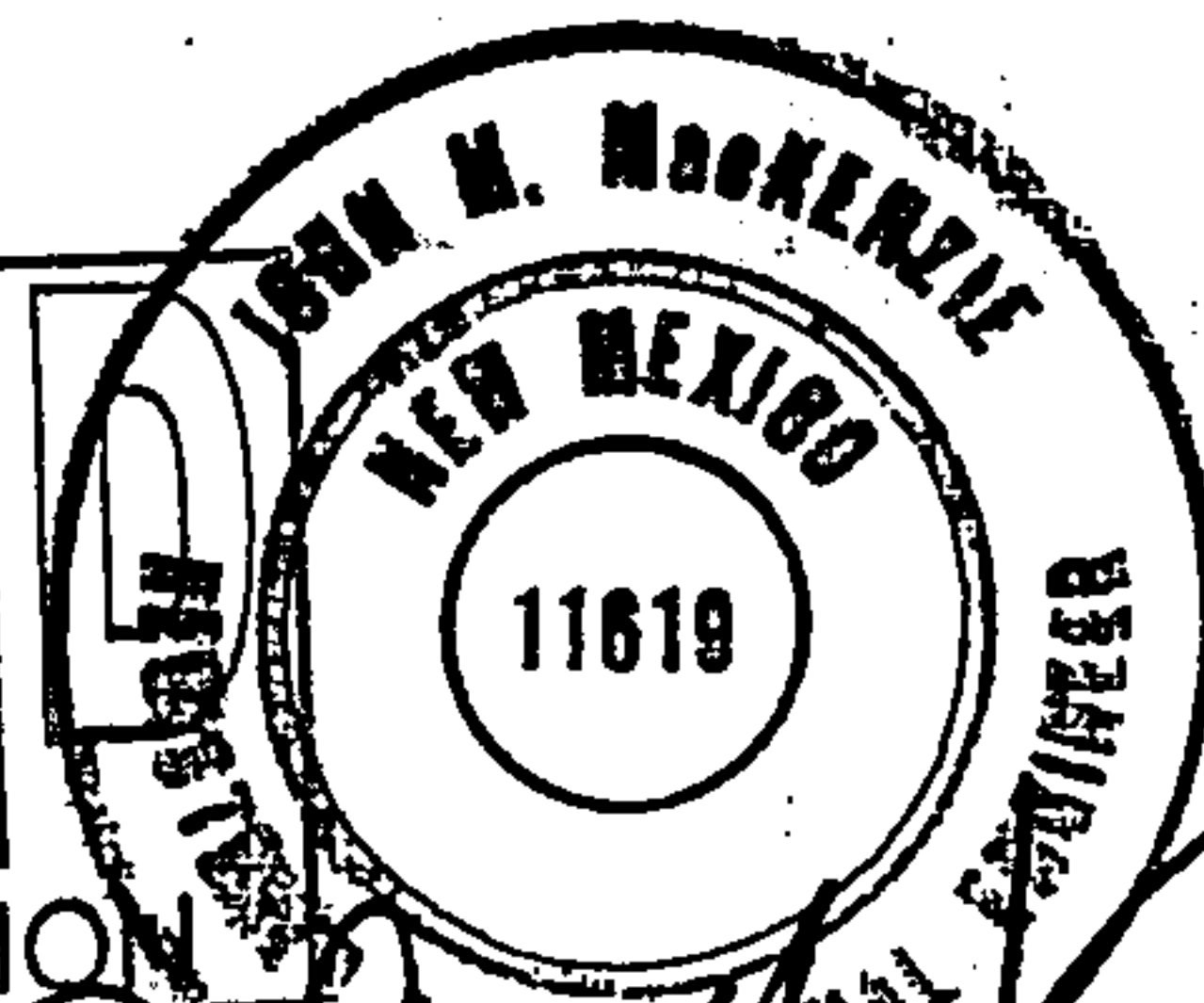
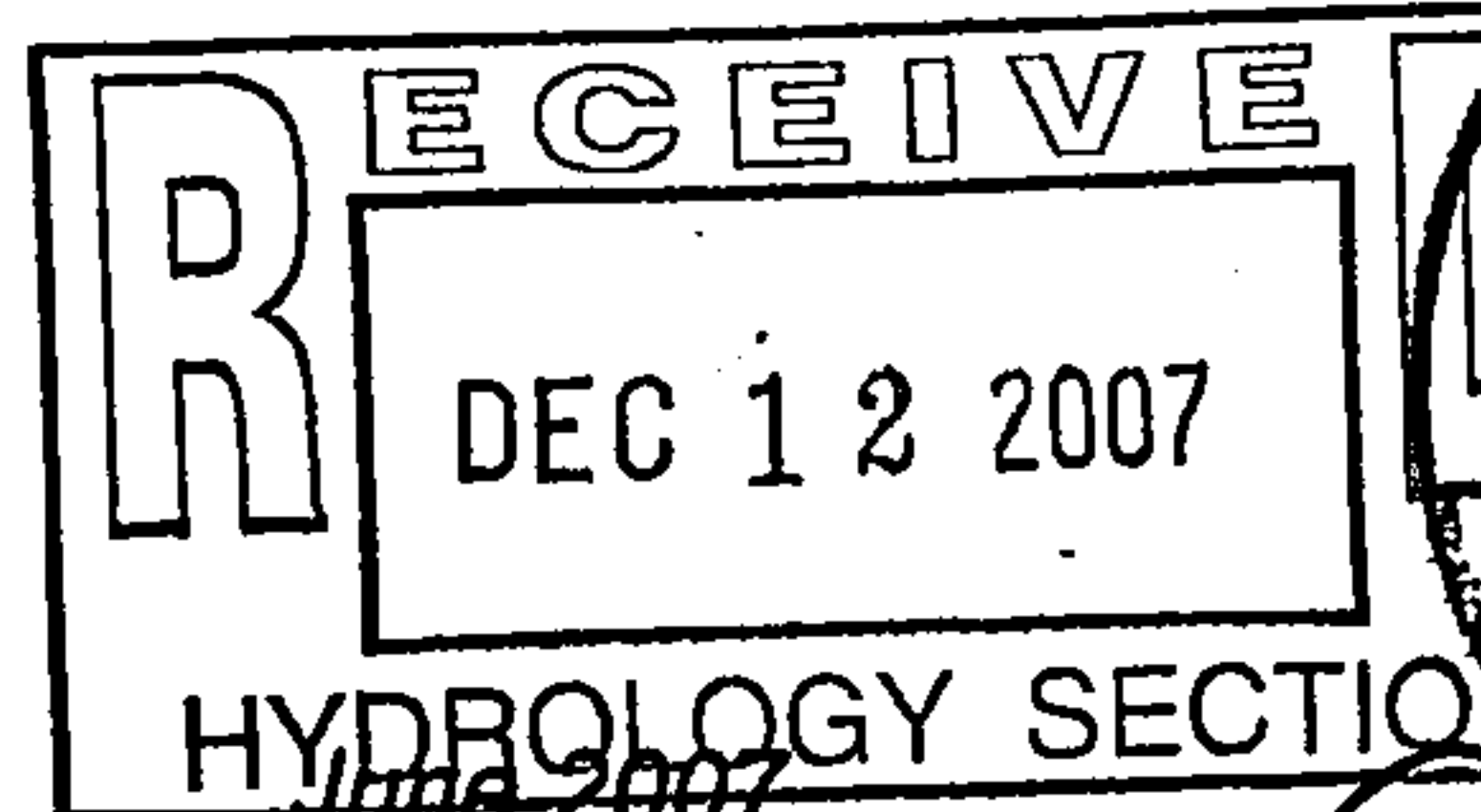
DRAINAGE REPORT
for
ONE TEN RICHMOND

Prepared for

James C. Lewis Architect General Design, Inc
1620 Central Avenue SE
Albuquerque, NM 87106
(505) 247-1529

Prepared by

Mark Goodwin & Associates, PA
P.O. Box 90606
Albuquerque, NM 87199
(505) 828-2200



(Updated December 2007)

John Mackenzie

12.12.07

TABLE OF CONTENTS

- I. PROJECT DESCRIPTION
- II. DESIGN CRITERIA
- III. EXISTING DRAINAGE CONDITIONS
- IV. DRAINAGE MANAGEMENT PLAN
- V. CONCLUSION

FIGURE 1: VICINITY MAP

APPENDIX A - HYDROLOGY

AHYMO calculations, EXISTING AND DEVELOPED CONDITIONS

APPENDIX B – HYDRAULICS

HEC-RAS CALCULATIONS, DEVELOPED CONDITIONS

POCKET 1: GRADING AND DRAINAGE PLAN (*includes HEC-RAS map*)

I. PROJECT DESCRIPTION

The project covers approximately 0.48 acres of developed property located along the east side of Richmond Drive SE, approximately one-half block south of Central Avenue. The site is also bounded by existing public alleys on its north and east and then an existing office to its south. Its current legal description is "Lots 1-A, 1-B, 2, and 3, Block 40, University Heights Addition." The developer's plan is to demo the existing office building and associated paving, and then replace it with residential condominiums that will occupy virtually all of the subject property. Parking for a majority of the residences will be on the street level and then dwelling units will extend three floors above. The purpose of this report is to present how drainage from the new building will be handled and how existing runoff surrounding the site will be routed around the new building.

II. DRAINAGE DESIGN CRITERIA

The design criteria used in this report was in accordance with Section 22.2 Hydrology of the Development Process Manual. The 100-year, 6-hour storm event for the site was modeled utilizing site runoff rates estimated at $P(6\text{ hr}) = 2.35$, obtained from the precipitation graphs in the DPM. The on-site land treatment values for use by AHYMO were estimated primarily as all Type D, but with incidental amounts of Type C up to 20% representing gravel parking on parts of the surrounding property.

III. EXISTING DRAINAGE CONDITION

The property formerly contained an existing building that was entirely surrounded by paved parking. Roof runoff from that building was directed into the adjoining alley on its north or to the west out into Richmond Avenue, while runoff from the on-site paved parking sheet-flowed from NE to SW across the site, also primarily discharging into Richmond. In general, the surrounding local area also slopes from NE to SW. In order to determine both the existing and developed flows affecting the site, AHYMO calculations were performed. Approximately 2.34 cfs of flow from properties east of the east alley (Basin A) are collected and conveyed south in the alley to Silver Avenue. From existing topo and observed field conditions, it appears that runoff from large events may presently exceed the alley's capacity and then enter the subject property (and its southerly neighbor) and continue flowing west across the site to Richmond. Existing buildings fronting Central Avenue between Richmond and Bryn Mawr Avenue to the east (Basin B) all discharge to the south off their south sides into the alley north of the subject site, along with portions of the on-site building, where they combine and then continue west to Richmond with a 100-year flow of 3.39 cfs. Basin C, covering the balance of the building and remaining portions of the on-site parking currently drains toward Richmond Drive with a 100-year flow of 1.57 cfs.

IV. DRAINAGE MANAGEMENT PLAN

Based upon the fact that the site formerly contained entirely impervious surfaces, there is no net increase to the developed flow condition from its existing state. Between on-site and off-site flows the site and its surrounding area was split up into four separate basins as represented on the second sheet of the grading and drainage plan. A 100-year flow of 3.48 cfs from off-site Basins 2 and 3 is routed west around the site, and a 100-year flow of 2.43 cfs from Basin 1 is routed to the south. A 100-year flow of 1.28 cfs will approach Richmond Avenue from basin 4, and 0.10 cfs from Basin IIIA will approach Richmond Avenue via a pipe. On-site discharge is directed both into the alley on its north side and into Richmond on its west side. Off-site flow from the east will continue to be directed into the east alley and then be contained in the alley with the aid of new curb and gutter along its western flank as it flows south toward Silver Avenue. For both of the alleys existing pavement will be removed and replaced with new paving, along with new alley gutter for the north alley. A HEC-RAS model was run on the north alley to show that the relatively low 100-year, 6-hour storm flow is fully contained within alley right-of-way. Since there is no increase in discharge to the east alley, it was not modeled for existing flow.

From the building and a north-side parking space overhang, roof downspouts discharge directly into the adjoining alleys or street. A small area of on-site paving along the north side of the uncovered parking area will drain west through pipes or sidewalk culverts into Richmond.

The AHYMO models for existing and developed conditions, as well as the HEC-RAS model for developed conditions, are included in the Appendix.

V. CONCLUSION

The proposed drainage scheme for the new residential development does not affect the existing off-site flow conditions for the east alley although it does increase flow in the north alley by 0.09 cfs. Flow in the north alley has been checked and it is shown there is sufficient capacity resulting from improved alley conditions so that impact to on and off site properties can be minimized. The on-site flows have been routed into the surrounding alleys and Richmond Avenue. The net impact to the surrounding area is relatively unchanged due to the fact that there is not additional runoff created relative to the pre-existing on-site conditions.

APPENDIX A

HYDROLOGY

AHYMO CALCULATION, EXISTING CONDITIONS

EXISTING

AHYMO PROGRAM (AHYMO_97) -

- Version: 1997.02d

RUN DATE (MON/DAY/YR) = 12/12/2007

START TIME (HR:MIN:SEC) = 10:17:46

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INPUT FILE = F:\TomG\ONETEN~1\ONETEN~2.TXT

*S AHYMO_97 MODEL FOR: ONE TEN RICHMOND

*S PREPARED FOR: CITY

*S PREPARED BY: MARK GOODWIN & ASSOCIATES

*S

*S MODEL DESCRIPTION -

*S 1. 100-YEAR 6-HOUR RAINFALL EVENT

*S 2. THIS MODEL ASSUMES EXISTING CONDITIONS

*S

START TIME=0.0

*S***** AHYMO -Nobhill Condos. DAT

*S***** DECEMBER 12, 2007

*S***** HYDROLOGY FOR ONE TEN RICHMOND ONSITE EXISTING

RAINFALL

TYPE=1 RAIN QUARTER=0.0 IN

RAIN ONE=2.01 IN RAIN SIX=2.35 IN RAIN DAY=2.7 IN

DT=0.0333 HR

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.

DT = .033300 HOURS END TIME = 5.994000 HOURS

| | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|
| .0000 | .0016 | .0033 | .0049 | .0066 | .0084 | .0102 |
| .0120 | .0139 | .0158 | .0178 | .0198 | .0219 | .0241 |
| .0263 | .0285 | .0309 | .0333 | .0358 | .0384 | .0410 |
| .0438 | .0467 | .0497 | .0528 | .0561 | .0595 | .0630 |
| .0668 | .0708 | .0750 | .0805 | .0864 | .0928 | .1059 |
| .1359 | .1822 | .2488 | .3398 | .4596 | .6124 | .8028 |
| 1.0352 | 1.2584 | 1.3500 | 1.4271 | 1.4955 | 1.5577 | 1.6150 |
| 1.6682 | 1.7178 | 1.7644 | 1.8082 | 1.8495 | 1.8885 | 1.9255 |
| 1.9605 | 1.9937 | 2.0252 | 2.0551 | 2.0835 | 2.0912 | 2.0972 |
| 2.1030 | 2.1085 | 2.1137 | 2.1188 | 2.1236 | 2.1282 | 2.1327 |
| 2.1370 | 2.1412 | 2.1452 | 2.1491 | 2.1529 | 2.1566 | 2.1602 |
| 2.1637 | 2.1671 | 2.1704 | 2.1737 | 2.1768 | 2.1799 | 2.1830 |
| 2.1859 | 2.1889 | 2.1917 | 2.1945 | 2.1973 | 2.2000 | 2.2026 |
| 2.2052 | 2.2078 | 2.2103 | 2.2128 | 2.2152 | 2.2176 | 2.2200 |
| 2.2223 | 2.2246 | 2.2268 | 2.2291 | 2.2313 | 2.2334 | 2.2356 |
| 2.2377 | 2.2397 | 2.2418 | 2.2438 | 2.2458 | 2.2478 | 2.2498 |
| 2.2517 | 2.2536 | 2.2555 | 2.2574 | 2.2592 | 2.2611 | 2.2629 |
| 2.2647 | 2.2664 | 2.2682 | 2.2699 | 2.2716 | 2.2733 | 2.2750 |
| 2.2767 | 2.2784 | 2.2800 | 2.2816 | 2.2832 | 2.2848 | 2.2864 |
| 2.2880 | 2.2895 | 2.2911 | 2.2926 | 2.2941 | 2.2956 | 2.2971 |
| 2.2986 | 2.3000 | 2.3015 | 2.3029 | 2.3044 | 2.3058 | 2.3072 |
| 2.3086 | 2.3100 | 2.3113 | 2.3127 | 2.3141 | 2.3154 | 2.3168 |
| 2.3181 | 2.3194 | 2.3207 | 2.3220 | 2.3233 | 2.3246 | 2.3259 |
| 2.3271 | 2.3284 | 2.3297 | 2.3309 | 2.3321 | 2.3334 | 2.3346 |
| 2.3358 | 2.3370 | 2.3382 | 2.3394 | 2.3406 | 2.3418 | 2.3429 |
| 2.3441 | 2.3452 | 2.3464 | 2.3475 | 2.3487 | 2.3498 | |

*S***** BASIN A - (0.51 ACRES)

COMPUTE NM HYD ID=1 HYD NO=101 AREA=0.0008 SQ MI
PER A=0 PER B=0 PER C=10 PER D=90
TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 2.8426 CFS UNIT VOLUME = .9955 B = 526.28 P60 = 2.0100
AREA = .000720 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

K = .107446HR TP = .133300HR K/TP RATIO = .806046 SHAPE CONSTANT, N = 4.440701
UNIT PEAK = .23019 CFS UNIT VOLUME = .9469 B = 383.55 P60 = 2.0100
AREA = .000080 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

PRINT HYD ID=1 CODE=24

PARTIAL HYDROGRAPH 101.00

| TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| .000 | .0 | 1.332 | .7 | 2.664 | .0 | 3.996 | .0 | 5.328 | .0 |
| .666 | .0 | 1.998 | .6 | 3.330 | .0 | 4.662 | .0 | 5.994 | .0 |

RUNOFF VOLUME = 2.01658 INCHES = .0860 ACRE-FEET
PEAK DISCHARGE RATE = 2.34 CFS AT 1.499 HOURS BASIN AREA = .0008 SQ. MI.

*S***** BASIN B - (0.73 ACRES)

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UNIT PEAK = 4.2757 CFS UNIT VOLUME = .9965 B = 526.28 P60 = 2.0100
AREA = .001083 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

K = .107446HR TP = .133300HR K/TP RATIO = .806046 SHAPE CONSTANT, N = 4.440701
UNIT PEAK = .16401 CFS UNIT VOLUME = .9195 B = 383.55 P60 = 2.0100
AREA = .000057 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

PRINT HYD ID=2 CODE=24

PARTIAL HYDROGRAPH 102.00

| TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| .000 | .0 | 1.332 | 1.0 | 2.664 | .1 | 3.996 | .0 | 5.328 | .0 |
| .666 | .0 | 1.998 | .8 | 3.330 | .0 | 4.662 | .0 | 5.994 | .0 |

RUNOFF VOLUME = 2.06596 INCHES = .1256 ACRE-FEET
 PEAK DISCHARGE RATE = 3.39 CFS AT 1.499 HOURS BASIN AREA = .0011 SQ. MI.

*S***** BASIN C - (0.33 ACRES)

COMPUTE NM HYD ID=3 HYD NO=103 AREA=0.00052 SQ MI
 PER A=0 PER B=00 PER C=00 PER D=100
 TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
 UNIT PEAK = 2.0530 CFS UNIT VOLUME = .9941 B = 526.28 P60 = 2.0100
 AREA = .000520 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

PRINT HYD ID=3 CODE=24

PARTIAL HYDROGRAPH 103.00

| TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| .000 | .0 | 1.332 | .5 | 2.664 | .0 | 3.996 | .0 | 5.328 | .0 |
| .666 | .0 | 1.998 | .4 | 3.330 | .0 | 4.662 | .0 | 5.994 | .0 |

RUNOFF VOLUME = 2.11533 INCHES = .0587 ACRE-FEET
 PEAK DISCHARGE RATE = 1.57 CFS AT 1.499 HOURS BASIN AREA = .0005 SQ. MI.

*S

*S

FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 10:17:46

AHYMO CALCULATION, DEVELOPED CONDITIONS

AHYMO PROGRAM (AHYMO_97) -

- Version: 1997.02d

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INPUT FILE = F:\TomG\ONETEN~1\ONETEN~1.TXT

*S AHYMO_97 MODEL FOR: ONE TEN RICHMOND

*S PREPARED FOR: CITY

*S PREPARED BY: MARK GOODWIN & ASSOCIATES

*S

*S MODEL DESCRIPTION -

*S 1. 100-YEAR 6-HOUR RAINFALL EVENT

*S 2. THIS MODEL ASSUMES DEVELOPED CONDITIONS

*S

START TIME=0.0

*S***** AHYMO -Nobhill Condos. DAT

*S***** DECEMBER 12, 2007

*S***** HYDROLOGY FOR ONE TEN RICHMOND ONSITE DEVELOPED

RAINFALL

TYPE=1 RAIN QUARTER=0.0 IN

RAIN ONE=2.01 IN RAIN SIX=2.35 IN RAIN DAY=2.7 IN

DT=0.0333 HR

COMPUTED 6-HOUR RAINFALL DISTRIBUTION BASED ON NOAA ATLAS 2 - PEAK AT 1.40 HR.

DT = .033300 HOURS END TIME = 5.994000 HOURS

| | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|
| .0000 | .0016 | .0033 | .0049 | .0066 | .0084 | .0102 |
| .0120 | .0139 | .0158 | .0178 | .0198 | .0219 | .0241 |
| .0263 | .0285 | .0309 | .0333 | .0358 | .0384 | .0410 |
| .0438 | .0467 | .0497 | .0528 | .0561 | .0595 | .0630 |
| .0668 | .0708 | .0750 | .0805 | .0864 | .0928 | .1059 |
| .1359 | .1822 | .2488 | .3398 | .4596 | .6124 | .8028 |
| 1.0352 | 1.2584 | 1.3500 | 1.4271 | 1.4955 | 1.5577 | 1.6150 |
| 1.6682 | 1.7178 | 1.7644 | 1.8082 | 1.8495 | 1.8885 | 1.9255 |
| 1.9605 | 1.9937 | 2.0252 | 2.0551 | 2.0835 | 2.0912 | 2.0972 |
| 2.1030 | 2.1085 | 2.1137 | 2.1188 | 2.1236 | 2.1282 | 2.1327 |
| 2.1370 | 2.1412 | 2.1452 | 2.1491 | 2.1529 | 2.1566 | 2.1602 |
| 2.1637 | 2.1671 | 2.1704 | 2.1737 | 2.1768 | 2.1799 | 2.1830 |
| 2.1859 | 2.1889 | 2.1917 | 2.1945 | 2.1973 | 2.2000 | 2.2026 |
| 2.2052 | 2.2078 | 2.2103 | 2.2128 | 2.2152 | 2.2176 | 2.2200 |
| 2.2223 | 2.2246 | 2.2268 | 2.2291 | 2.2313 | 2.2334 | 2.2356 |
| 2.2377 | 2.2397 | 2.2418 | 2.2438 | 2.2458 | 2.2478 | 2.2498 |
| 2.2517 | 2.2536 | 2.2555 | 2.2574 | 2.2592 | 2.2611 | 2.2629 |
| 2.2647 | 2.2664 | 2.2682 | 2.2699 | 2.2716 | 2.2733 | 2.2750 |
| 2.2767 | 2.2784 | 2.2800 | 2.2816 | 2.2832 | 2.2848 | 2.2864 |
| 2.2880 | 2.2895 | 2.2911 | 2.2926 | 2.2941 | 2.2956 | 2.2971 |
| 2.2986 | 2.3000 | 2.3015 | 2.3029 | 2.3044 | 2.3058 | 2.3072 |
| 2.3086 | 2.3100 | 2.3113 | 2.3127 | 2.3141 | 2.3154 | 2.3168 |
| 2.3181 | 2.3194 | 2.3207 | 2.3220 | 2.3233 | 2.3246 | 2.3259 |
| 2.3271 | 2.3284 | 2.3297 | 2.3309 | 2.3321 | 2.3334 | 2.3346 |
| 2.3358 | 2.3370 | 2.3382 | 2.3394 | 2.3406 | 2.3418 | 2.3429 |
| 2.3441 | 2.3452 | 2.3464 | 2.3475 | 2.3487 | 2.3498 | |

*S***** BASIN I - (0.53 ACRES)

COMPUTE NM HYD ID=1 HYD NO=101 AREA=0.00083 SQ MI
PER A=0 PER B=0 PER C=10 PER D=90
TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 2.9492 CFS UNIT VOLUME = .9955 B = 526.28 P60 = 2.0100
AREA = .000747 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

K = .107446HR TP = .133300HR K/TP RATIO = .806046 SHAPE CONSTANT, N = 4.440701
UNIT PEAK = .23882 CFS UNIT VOLUME = .9469 B = 383.55 P60 = 2.0100
AREA = .000083 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

PRINT HYD ID=1 CODE=24

PARTIAL HYDROGRAPH 101.00

| TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| .000 | .0 | 1.332 | .7 | 2.664 | .0 | 3.996 | .0 | 5.328 | .0 |
| .666 | .0 | 1.998 | .6 | 3.330 | .0 | 4.662 | .0 | 5.994 | .0 |

RUNOFF VOLUME = 2.01658 INCHES = .0893 ACRE-FEET
PEAK DISCHARGE RATE = 2.43 CFS AT 1.499 HOURS BASIN AREA = .0008 SQ. MI.

*S***** BASIN II - (0.33 ACRES)

COMPUTE NM HYD ID=2 HYD NO=102 AREA=0.000515 SQ MI
PER A=0 PER B=0 PER C=10 PER D=90
TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
UNIT PEAK = 1.8299 CFS UNIT VOLUME = .9932 B = 526.28 P60 = 2.0100
AREA = .000464 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

K = .107446HR TP = .133300HR K/TP RATIO = .806046 SHAPE CONSTANT, N = 4.440701
UNIT PEAK = .14818 CFS UNIT VOLUME = .9107 B = 383.55 P60 = 2.0100
AREA = .000052 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

PRINT HYD ID=2 CODE=24

PARTIAL HYDROGRAPH 102.00

| TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| .000 | .0 | 1.332 | .4 | 2.664 | .0 | 3.996 | .0 | 5.328 | .0 |
| .666 | .0 | 1.998 | .4 | 3.330 | .0 | 4.662 | .0 | 5.994 | .0 |

RUNOFF VOLUME = 2.01658 INCHES = .0554 ACRE-FEET
 PEAK DISCHARGE RATE = 1.52 CFS AT 1.499 HOURS BASIN AREA = .0005 SQ. MI.

*S***** BASIN III - (0.42 ACRES)

COMPUTE NM HYD ID=3 HYD NO=103 AREA=0.000656 SQ MI
 PER A=0 PER B=00 PER C=3 PER D=97
 TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
 UNIT PEAK = 2.5122 CFS UNIT VOLUME = .9948 B = 526.28 P60 = 2.0100
 AREA = .000636 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

K = .107446HR TP = .133300HR K/TP RATIO = .806046 SHAPE CONSTANT, N = 4.440701
 UNIT PEAK = .56626E-01CFS UNIT VOLUME = .8780 B = 383.55 P60 = 2.0100
 AREA = .000020 SQ MI IA = .35000 INCHES INF = .83000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

PRINT HYD ID=3 CODE=24

PARTIAL HYDROGRAPH 103.00

| TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| .000 | .0 | 1.332 | .6 | 2.664 | .0 | 3.996 | .0 | 5.328 | .0 |
| .666 | .0 | 1.998 | .5 | 3.330 | .0 | 4.662 | .0 | 5.994 | .0 |

RUNOFF VOLUME = 2.08571 INCHES = .0730 ACRE-FEET
 PEAK DISCHARGE RATE = 1.97 CFS AT 1.499 HOURS BASIN AREA = .0007 SQ. MI.

*S

*S***** BASIN IIIA - (0.02 ACRES)

COMPUTE NM HYD ID=4 HYD NO=104 AREA=0.00003 SQ MI
 PER A=0 PER B=00 PER C=0 PER D=100
 TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
 UNIT PEAK = .11844 CFS UNIT VOLUME = .9031 B = 526.28 P60 = 2.0100
 AREA = .000030 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

PRINT HYD ID=4 CODE=24

PARTIAL HYDROGRAPH 104.00

| TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| .000 | .0 | .666 | .0 | 1.332 | .0 | 1.998 | .0 | 2.664 | .0 |

RUNOFF VOLUME = 2.11533 INCHES = .0034 ACRE-FEET
 PEAK DISCHARGE RATE = .10 CFS AT 1.499 HOURS BASIN AREA = .0000 SQ. MI.

*S***** BASIN IV - (0.27 ACRES)

COMPUTE NM HYD ID=5 HYD NO=105 AREA=0.000422 SQ MI
 PER A=0 PER B=00 PER C=0 PER D=100
 TP=0.1333 HR MASS RAINFALL=-1

K = .072649HR TP = .133300HR K/TP RATIO = .545000 SHAPE CONSTANT, N = 7.106420
 UNIT PEAK = 1.6661 CFS UNIT VOLUME = .9922 B = 526.28 P60 = 2.0100
 AREA = .000422 SQ MI IA = .10000 INCHES INF = .04000 INCHES PER HOUR
 RUNOFF COMPUTED BY INITIAL ABSTRACTION/INFILTRATION NUMBER METHOD - DT = .033300

PRINT HYD ID=5 CODE=24

PARTIAL HYDROGRAPH 105.00

| TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS | TIME HRS | FLOW CFS |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| .000 | .0 | 1.332 | .4 | 2.664 | .0 | 3.996 | .0 | 5.328 | .0 |
| .666 | .0 | 1.998 | .3 | 3.330 | .0 | 4.662 | .0 | 5.994 | .0 |

RUNOFF VOLUME = 2.11533 INCHES = .0476 ACRE-FEET
 PEAK DISCHARGE RATE = 1.28 CFS AT 1.499 HOURS BASIN AREA = .0004 SQ. MI.

*S
 *S ADD THE ROUTED FLOW FROM II TO THE FLOW FROM III
 ADD HYD ID=6 HYD=II+III I=2 II=3
 PRINT HYD ID=6 CODE=1

HYDROGRAPH FROM AREA II+III

RUNOFF VOLUME = 2.05484 INCHES = .1283 ACRE-FEET
PEAK DISCHARGE RATE = 3.48 CFS AT 1.499 HOURS BASIN AREA = .0012 SQ. MI.

*S

*S ADD THE ROUTED FLOW FROM IIIA TO THE FLOW FROM IV

ADD HYD ID=7 HYD=IIIA+IV I=4 II=5

PRINT HYD ID=7 CODE=1

HYDROGRAPH FROM AREA IIIA+IV

RUNOFF VOLUME = 2.10806 INCHES = .0508 ACRE-FEET
PEAK DISCHARGE RATE = 1.38 CFS AT 1.499 HOURS BASIN AREA = .0005 SQ. MI.

*S

FINISH

NORMAL PROGRAM FINISH

END TIME (HR:MIN:SEC) = 12:46:08

APPENDIX B

HYDRAULICS

HEC-RAS CALCULATION, DEVELOPED CONDITIONS

HEC-RAS, DEVELOPED,

ONE-TENexist Plan: Plan 06 12/12/2007

| Legend |
|----------|
| WS PF 1 |
| Ground |
| Bank Sta |

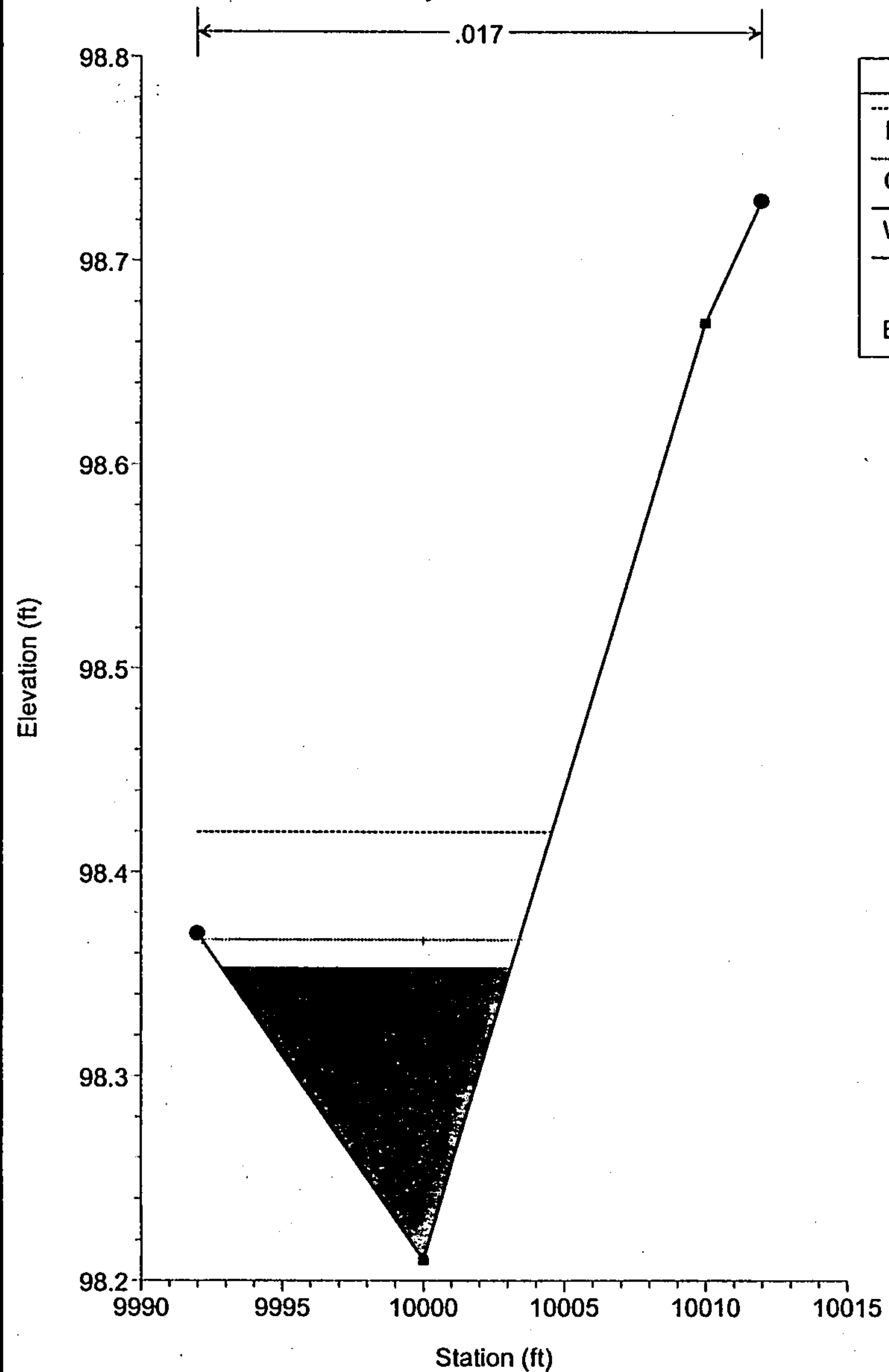
N

020

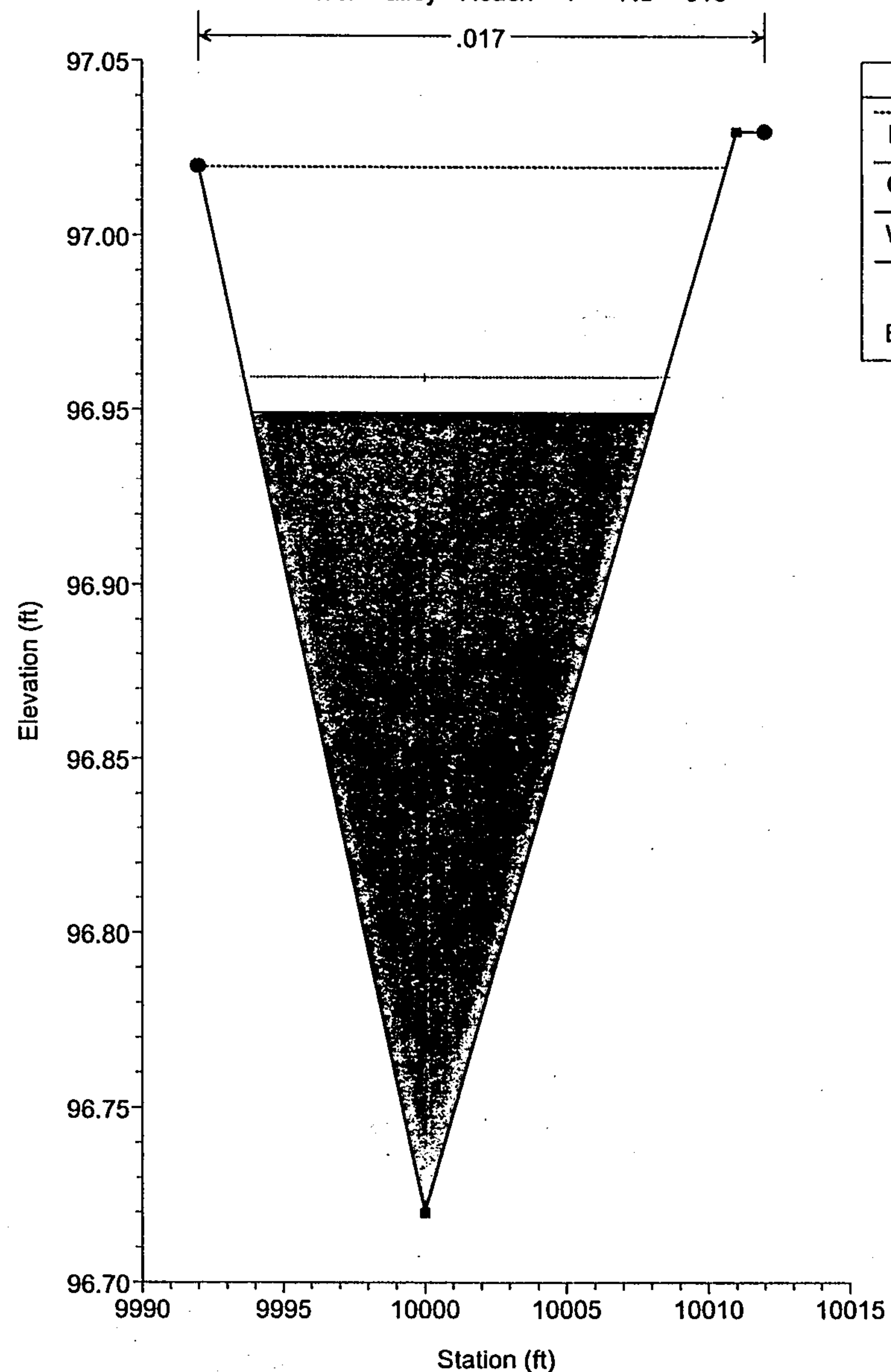
010

RICHMOND

ONE-TENexist Plan: Plan 06 12/12/2007
 River = alley Reach = 1 RS = 020



ONE-TENexist Plan: Plan 06 12/12/2007
 River = alley Reach = 1 RS = 010



HEC-RAS Plan: Plan 03 River: alley Reach: 1 Profile: PF 1

| Reach | River Sta | Profile | Q Total | Min Ch El | W.S. Elev | Crit W.S. | E.G. Elev | E.G. Slope | Vel Chnl | Flow Area | Top Width | Froude # Chl |
|-------|-----------|---------|---------|-----------|-----------|-----------|-----------|------------|----------|-----------|-----------|--------------|
| | | | (cfs) | (ft) | (ft) | (ft) | (ft) | (ft/ft) | (ft/s) | (sq ft) | (ft) | |
| 1 | 020 | PF.1 | 1.52 | 98.21 | 98.35 | 98.37 | 98.42 | 0.019009 | 2.07 | 0.73 | 10.25 | 1.37 |
| 1 | 010 | PF.1 | 3.48 | 96.72 | 96.95 | 96.96 | 97.02 | 0.010681 | 2.13 | 1.63 | 14.25 | 1.11 |

CITY OF ALBUQUERQUE



January 11, 2008

James Lewis, R.A.
General Design, Inc.
1620 Central Ave. SE
Albuquerque, NM 87106

Re: Nob Hill Condos, 110 Richmond Ave SE (K16-D071), Traffic Circulation Layout
Architect's Stamp dated 8-06-07 (K16-D71)

Dear Mr. Lewis,

The TCL submittal received 1-11-08 is approved for Building Permit. The plan is stamped and signed as approved. A copy of this plan will be needed for each of the building permit plans. Please keep the original to be used for certification of the site for final C.O. for Transportation. **Public infrastructure or work done within City Right-of-Way shown on these plans is for information only and is not part of approval. A separate DRC and/or other appropriate permits are required to construct these items.**

P.O. Box 1293

Albuquerque

New Mexico 87103

www.cabq.gov

If a temporary CO is needed, a copy of the original TCL that was stamped as approved by the City will be needed. This plan must include a statement that identifies the outstanding items that need to be constructed or the items that have not been built in "substantial compliance," as well as the signed and dated stamp of a NM registered architect or engineer. Submit this TCL with a completed Drainage and Transportation Information Sheet to Hydrology at the Development Services Center of Plaza Del Sol Building.

When the site is completed and a final C.O. is requested, use the original City stamped approved TCL for certification. A NM registered architect or engineer must stamp, sign, and date the certification TCL along with indicating that the development was built in "substantial compliance" with the TCL. Submit this certification TCL with a completed Drainage and Transportation Information Sheet to Hydrology at the Development Services Center of Plaza Del Sol Building.

Once verification of certification is completed and approved, notification will be made to Building Safety to issue Final C.O. To confirm that a final C.O. has been issued, call Building Safety at 924-3306.

Sincerely,

Kristal D. Metro, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

C: File

K-16/D71

DRAINAGE AND TRANSPORTATION INFORMATION SHEET

Nob Hill Condos (REV 12/2005)

PROJECT TITLE: one ten richmond ZONE MAP: K-16
 DRB#: _____ EPC#: _____ WORK ORDER#: _____

LEGAL DESCRIPTION: Tract A Block 40 University Heights Addn.
 CITY ADDRESS: 110 richmond SE

ENGINEERING FIRM: _____ CONTACT: _____
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

OWNER: Kenny Hinkes CONTACT: _____
 ADDRESS: 9805 Greenbriar Rd NE PHONE: 798-1000
 CITY, STATE: ABQ NM ZIP CODE: 87110

ARCHITECT: James C. Lewis Arch CONTACT: PHIL LIGHTEE
 ADDRESS: 1620 Central Ave SE PHONE: 247-1529
 CITY, STATE: ABQ NM ZIP CODE: 87106

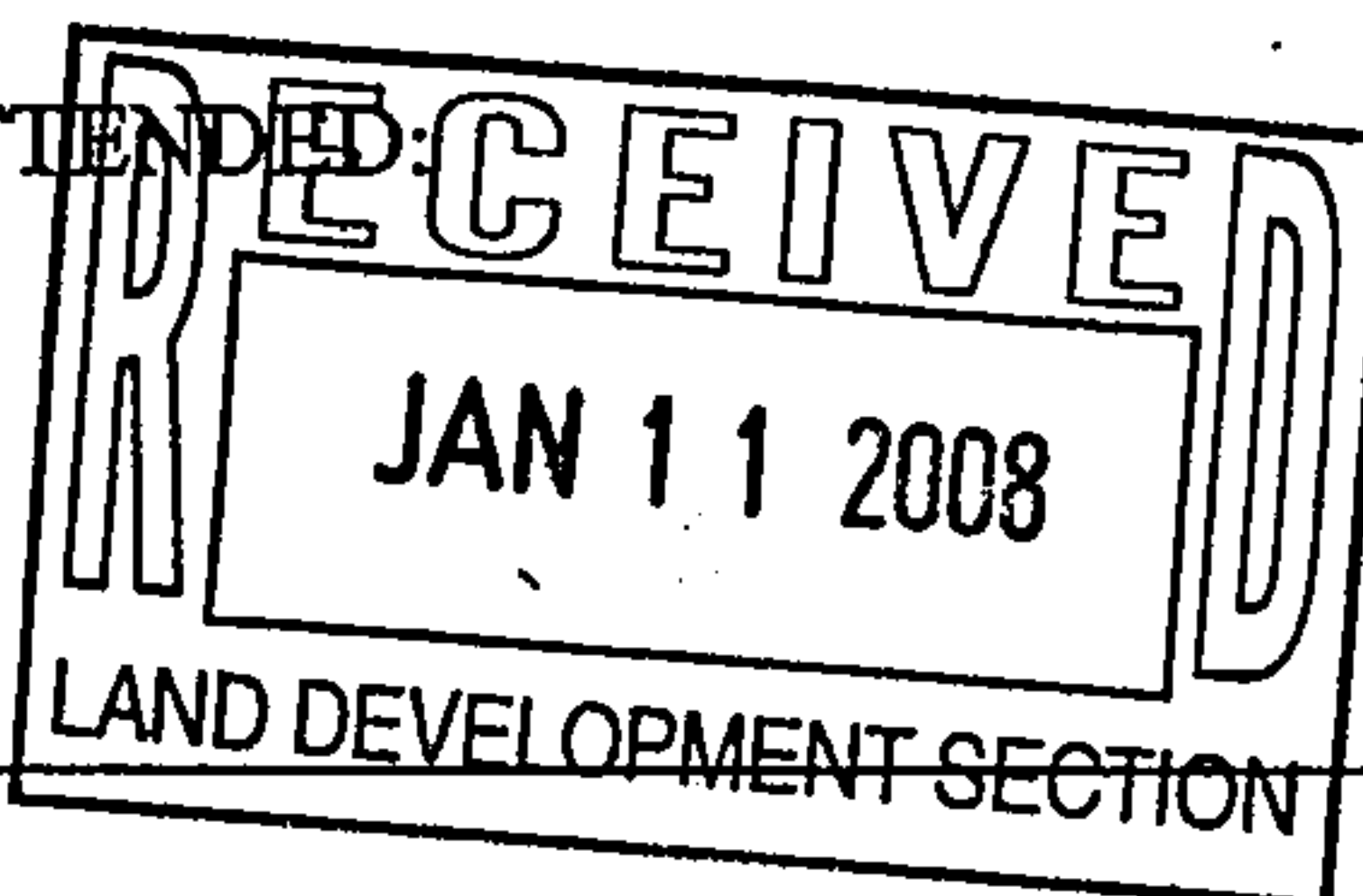
SURVEYOR: _____ CONTACT: _____
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

CONTRACTOR: _____ CONTACT: _____
 ADDRESS: _____ PHONE: _____
 CITY, STATE: _____ ZIP CODE: _____

| | |
|--|--|
| TYPE OF SUBMITTAL: | CHECK TYPE OF APPROVAL SOUGHT: |
| <input type="checkbox"/> DRAINAGE REPORT | <input type="checkbox"/> SIA/FINANCIAL GUARANTEE RELEASE |
| <input type="checkbox"/> DRAINAGE PLAN 1 st SUBMITTAL | <input type="checkbox"/> PRELIMINARY PLAT APPROVAL |
| <input type="checkbox"/> DRAINAGE PLAN RESUBMITTAL | <input type="checkbox"/> S. DEV. PLAN FOR SUB'D APPROVAL |
| <input type="checkbox"/> CONCEPTUAL G & D PLAN | <input type="checkbox"/> S. DEV. FOR BLDG. PERMIT APPROVAL |
| <input type="checkbox"/> GRADING PLAN | <input type="checkbox"/> SECTOR PLAN APPROVAL |
| <input type="checkbox"/> EROSION CONTROL PLAN | <input type="checkbox"/> FINAL PLAT APPROVAL |
| <input type="checkbox"/> ENGINEER'S CERT (HYDROLOGY) | <input type="checkbox"/> FOUNDATION PERMIT APPROVAL |
| <input type="checkbox"/> CLOMR/LOMR | <input checked="" type="checkbox"/> BUILDING PERMIT APPROVAL |
| <input checked="" type="checkbox"/> TRAFFIC CIRCULATION LAYOUT | <input type="checkbox"/> CERTIFICATE OF OCCUPANCY (PERM) |
| <input type="checkbox"/> ENGINEER'S CERT (TCL) | <input type="checkbox"/> CERTIFICATE OF OCCUPANCY (TEMP) |
| <input type="checkbox"/> ENGINEER'S CERT (DRB SITE PLAN) | <input type="checkbox"/> GRADING PERMIT APPROVAL |
| <input type="checkbox"/> OTHER (SPECIFY) | <input type="checkbox"/> PAVING PERMIT APPROVAL |
| | <input type="checkbox"/> WORK ORDER APPROVAL |
| | <input type="checkbox"/> OTHER (SPECIFY) |

WAS A PRE-DESIGN CONFERENCE ATTENDED:
☒ YES
☐ NO
☐ COPY PROVIDED

DATE SUBMITTED: 1/10/08



BY: [Signature]

Requests for approvals of Site Development Plans and/or Subdivision Plats shall be accompanied by a drainage submittal. The particular nature, location, and scope to the proposed development defines the degree of drainage detail. One or more of the following levels of submittal may be required based on the following:

1. **Conceptual Grading and Drainage Plan:** Required for approval of Site Development Plans greater than five (5) acres and Sector Plans.
2. **Drainage Plans:** Required for building permits, grading permits, paving permits and site plans less than five (5) acres.
3. **Drainage Report:** Required for subdivision containing more than ten (10) lots or constituting five (5) acres or more.

FIRE MARSHAL

(505) 924-3611 Case # 3577-07

THIS WORK WILL REQUIRE A FIRE INSPECTION BY THIS OFFICE.

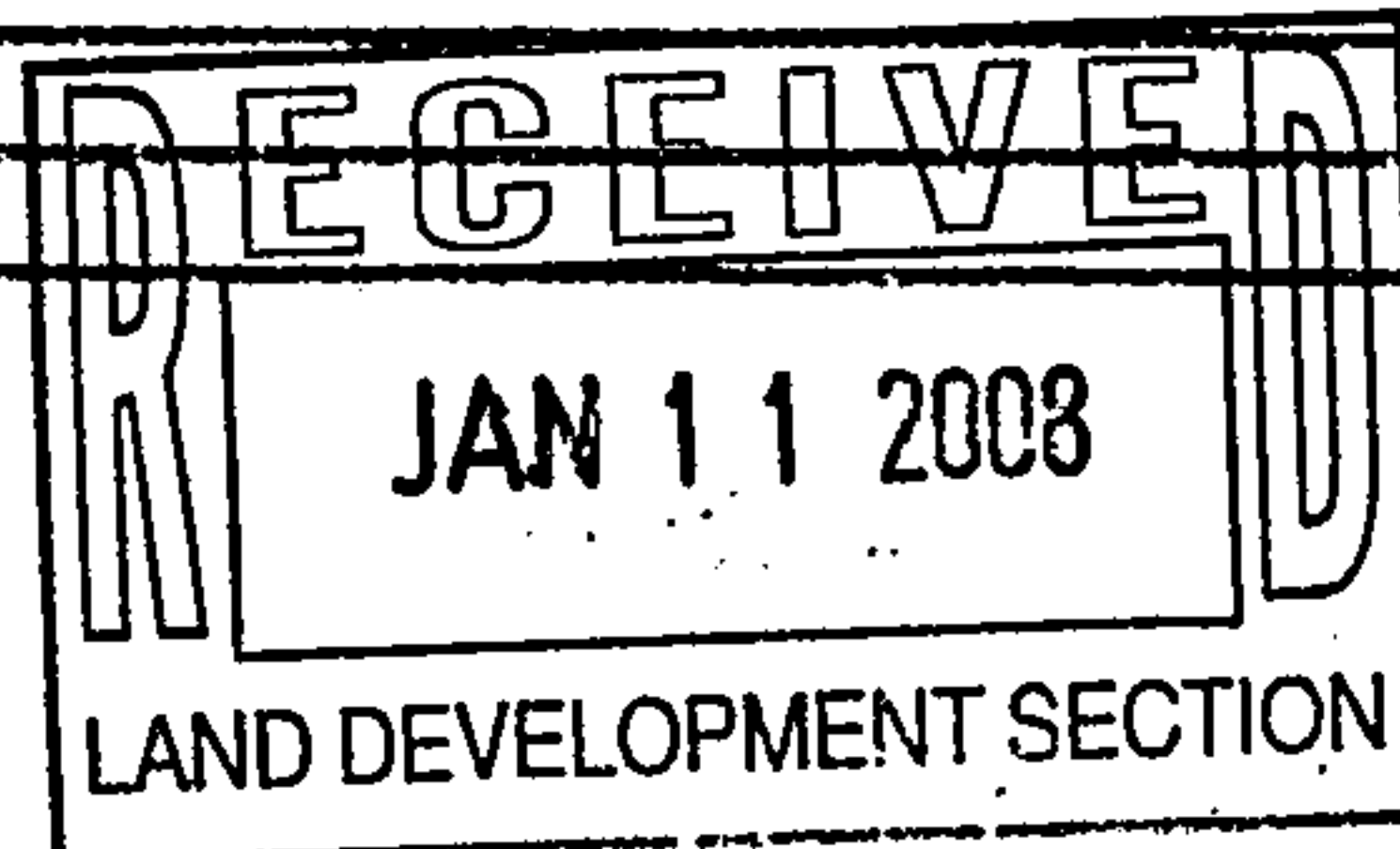
- All items listed below shall be installed in accordance with applicable fire codes prior to a building (or portion of a building) being occupied.
- All required fire hydrants shall be installed and operable before any building (or portion of the building) is occupied.
- An approved and adequate water supply shall be provided before any combustible materials are delivered to the building site.

NAME OF BUSINESS 110 Richmond Dr. S.E. STORE OR SPACE NO. 39,682
OCCUPANCY GROUP R-2, S-2 CONSTRUCTION TYPE V-B Sprinkler
FIRE FLOW REQ'D. 2689 GPM 1671 FIRE HYDRANTS REQ'D. 2-8

PLANS DISAPPROVED RCA DATE 8-29-07
PLANS APPROVED FMC DATE 1-7-08

PLANS CORRECTIONS REQUIRED: (INDICATE ORDINANCE SECTION REFERENCE)

- Existing fire hydrants do not meet distance requirements
- Fire extinguisher coverage is inadequate on all levels, noted exception on code analysis sheet under 2003 I.F.C. does not apply to R-2, S-2 occupancies. (906.1)
- Provide detail sheet for fire sprinkler system Post indicator valve.
- Locations of Fire dept. connection and Post Indicator valve shall be approved by this office.
- Fire sprinkler system shop drawings must be submitted for review & approval prior to construction of system
- Fire Alarm system shop drawings shall be submitted for review & approval prior to installation of system.
- Provide Knox box for fire dept access.



INTI

(505) 924-

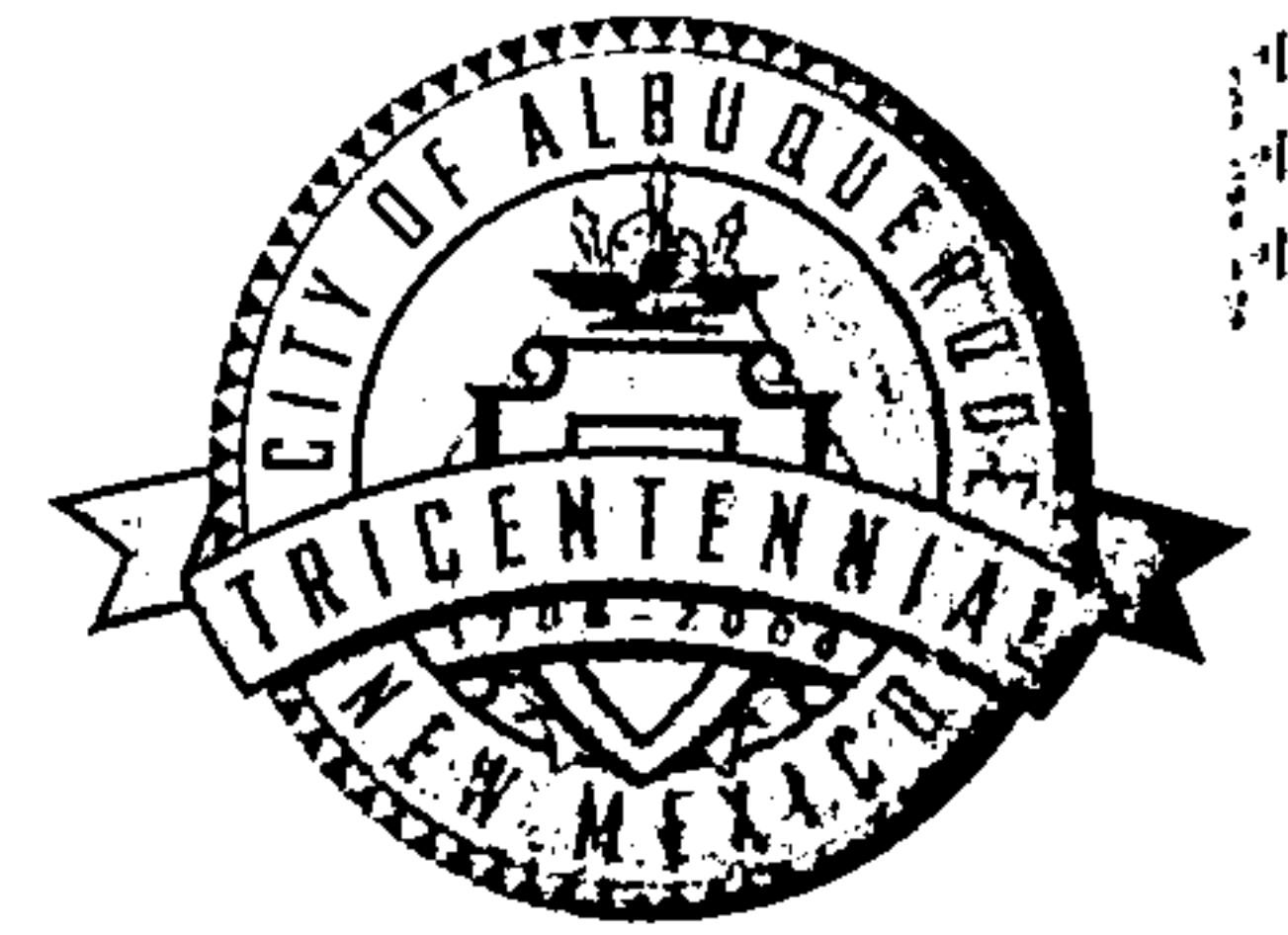
• Premises
the Uniform

DESCRIPTIO
SIZE OF BLD
CONSTRUCT

PLANS DISA
PLANS APP

1. Prov
2. Glaz
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detail
4. Prov
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15. Clari
ANS
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17. Elev
18. Dam
19. Unde
20. Revi

CITY OF ALBUQUERQUE



**Planning Department
Transportation Development Services Section**

January 3, 2008

James Lewis, R.A.
General Design, Inc.
1620 Central Ave. SE
Albuquerque, NM 87106

Re: TCL Submittal for Building Permit Approval for
110 Richmond [K16 / D071]
Architect Stamp, 08/06/07

Dear Mr. Baker:

P.O. Box 1293

Albuquerque

The location referenced above, dated December 19, 2007, is not acceptable and requires modification to the Traffic Circulation Layout (TCL) prior to Building Permit release as stated on the attached Site Plan, and red-lined TCL markup with comments.

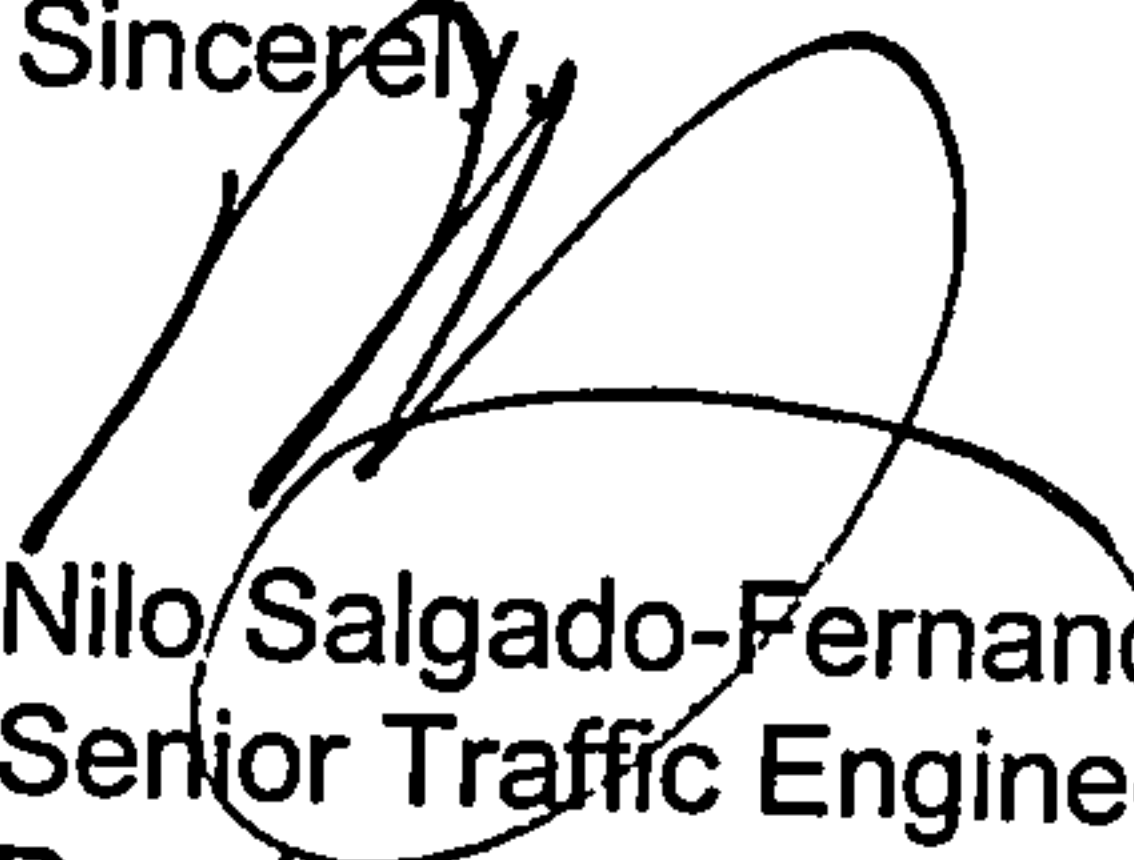
New Mexico 87103

Public infrastructure or work required within City of Albuquerque Right-of-way shown on these plans is for information only and will need a separate DRC work order to construct these items (If applicable).

www.cabq.gov

Please resubmit revised TCL after addressing typed and marked up comments. Submit plan along with checklist and all current and past red-lined, mark-up copies. Contact me at (505)924-3630 if you need any further instruction for resubmittal.

Sincerely,


Nilo Salgado-Fernandez, P.E.
Senior Traffic Engineer
Development and Building Services
Planning Department

c: Engineer
Hydrology file
File

CITY OF ALBUQUERQUE



October 16, 2007

James Lewis, R.A.
General Design, Inc.
1620 Central Ave. SE
Albuquerque, NM 87106

**Re: Nob Hill Condos, 110 Richmond Ave SE, Traffic Circulation Layout
Architect's Stamp dated 8-06-07 (K16-D071)**

Dear Mr. Lewis,

Based upon the information provided in your submittal received 10-03-07, the above referenced plan cannot be approved for Building Permit until the following comments are addressed:

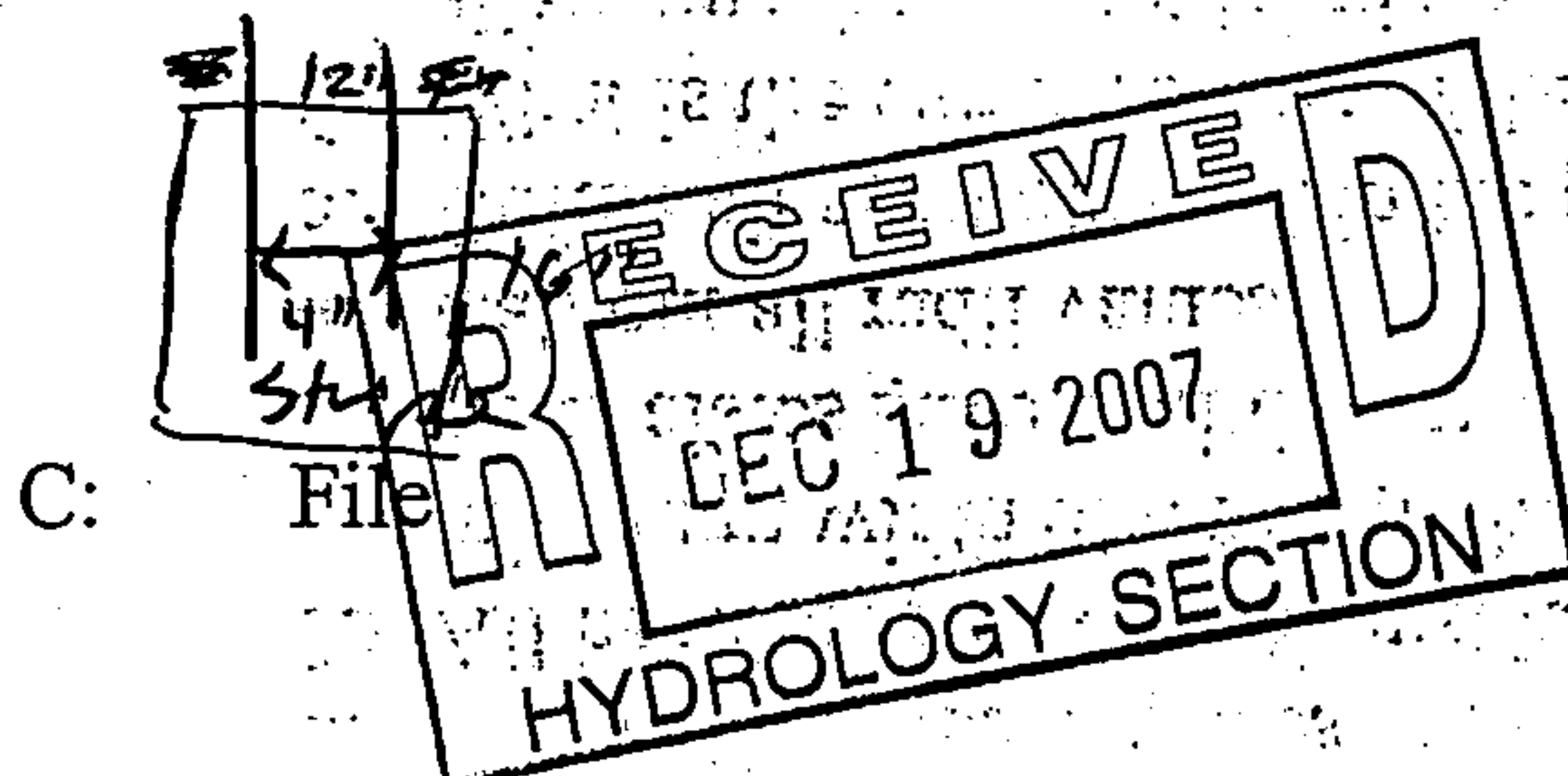
- 1. The aisle widths shown at the entrance and exit for the underground parking are very narrow. Please justify these widths. *Doors are 8' wide*
- 2. Label all compact spaces with the word "compact."
- 3. All handicapped spaces must have a striped aisle. One aisle must have a minimum width of 8 feet (to be designated as a "van access aisle"), and the other aisles have a minimum width of 5 feet.
- ? 4. Call out all radii values.
- ? 5. Define all symbols used in the plan.
- 6. What is the current status of the alley? To take access off of the alley, the alley must be ~~24~~ *20' wide* feet in width and paved. A work order will be required for the paving.
- 7. A wall appears to block the access aisle for the handicapped spaces; does the eastern space have a 5 foot minimum aisle?
- 8. Parking spaces along the alley should be offset a minimum of 2 feet from the alley.
- 9. All wheelchair ramps located within the City right of way must have truncated domes. *- No ramps, direct on Coastal*
- 10. A re-plat or cross lot access easement is needed. *- in process*

If you have any questions, you can contact me at 924-3981.

Sincerely,

[Signature]
Kristal D. Metro, P.E.
Senior Engineer, Planning Dept.
Development and Building Services

12"x 16" Column



CITY OF ALBUQUERQUE

February 9, 2007



D. Mark Goodwin, P.E.
D. Mark Goodwin & Associates, P.A.
PO Box 90606
Albuquerque, NM 87199

Re: Nob Hill Condos, Engineer's Stamp Dated 8-10-07, (K16/D71)
Lots 1A, 1B, 2 and 3 of the University Heights Addition

Dear Mr. Mackenzie,

Based upon the information provided in your submittal received on August 9, 2007, there are items that must be revised prior to permit approval. Those items are as follows.

- ✓ • The scale is mislabeled.
- Remove all references to Silver Tree Park from the AHYMO calculations.
- Will the new sidewalks be constructed per standard drawing 2430? Will the "standup curb and gutter" be built per standard drawing 2415A? Please cite all applicable standard drawings or provide a detail.
- Indicate where the transition(s) from estate to stand up curb will occur.
- What is the floodplain status? Please give this information and specifically reference the appropriate F.I.R.M panel.
- Please provide a copy of the manufacturer's cut sheet for the new sump pump.
- Due to the dedication of additional right-of-way as well as the structure's location on top of existing lot lines, a replatting action is required. Has that process been initiated?
- What are the finished floor elevations for the new structure and the existing structure to the south?
- You call out a new alley entrance at Richmond to be constructed per standard drawing 2425. That detail is for a typical drive pad. Is this correct or was it intended to reference an alley intersection (2428)?
- Where will the roof drains be located and to what point will they discharge? Will they connect to the trench drains?
- What do the three (3) rectangles at the northeast corner and the open rectangle at the northwest corner of the site represent? What does the triangle / pointer at the eastern entrance represent? Please add notes and / or legend entries to clarify.
- Please show the location of the relocated utilities and define the extents of the pavement cuts.

P.O. Box 1293

Albuquerque

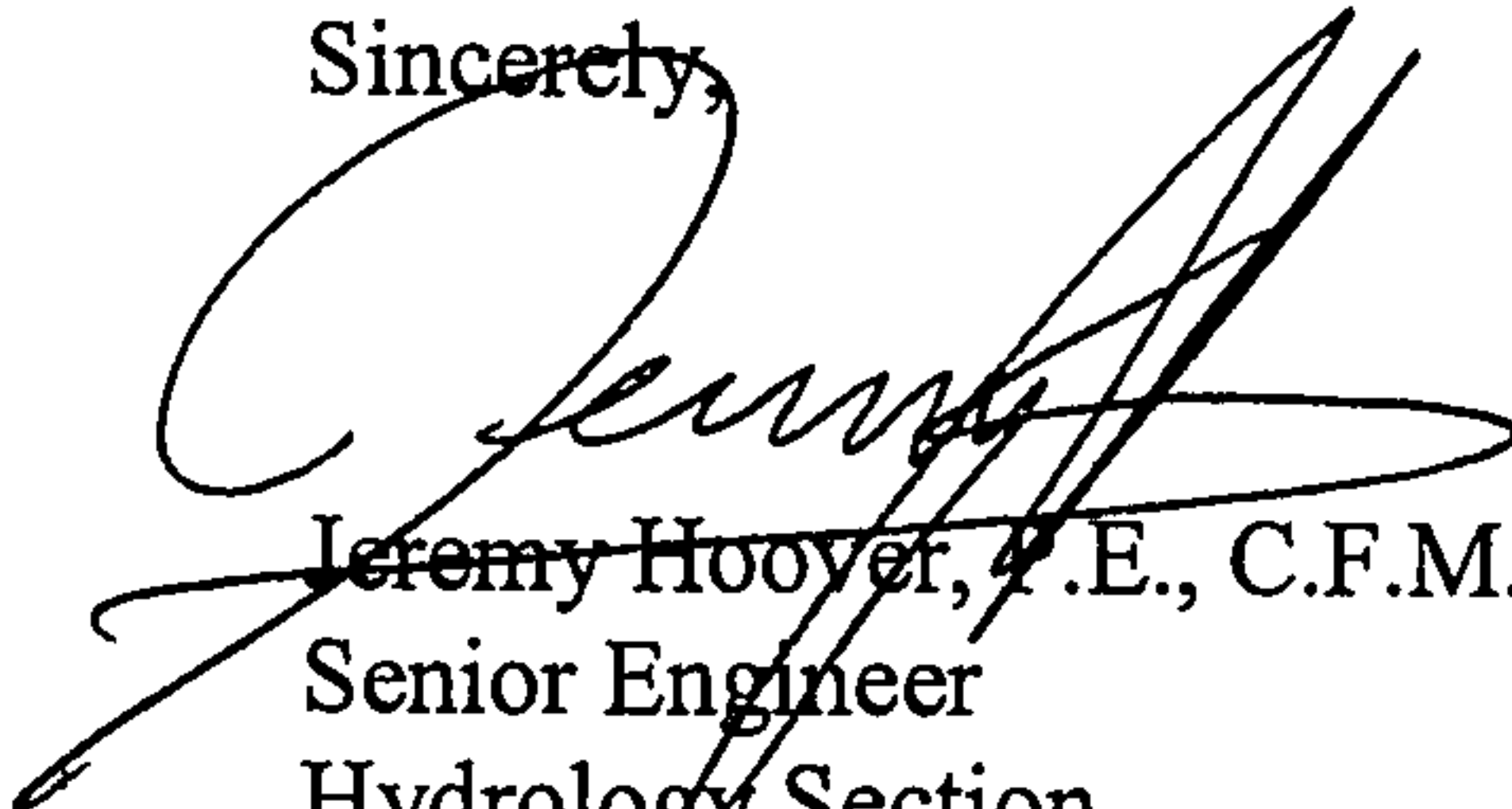
New Mexico 87103

www.cabq.gov

- Will you be providing an opening in the pre-cast wall to allow for easterly drainage or is the intention to drain that area west to Richmond thus requiring a sidewalk culvert? Why does the curb not extend east to the pre-cast wall?
- Arial photographs suggest but are unclear as to the presence of valley gutter within the adjacent alleys. Is that infrastructure present? If not, its construction may be necessary since you will now be draining east and adding flow to the alley instead of draining west Richmond. Please show this on the plan.

If you have any questions, you can contact me at 924-3990.

Sincerely,



Jeremy Hoover, P.E., C.F.M.

Senior Engineer

Hydrology Section

Development and Building Services

cc: file F10/D13