



City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

May 6, 2004

Mikko Ahola
c/o Matthew Roberts
193 Raven Rd
Tijeras, NM 87057

**Re: Cell Tower at property at SE corner of Morris/Candelaria drainage plan
Engineer's stamp dated 5-5-04 (H21/D47)**

Dear Mr. Ahola,

Based upon the information provided in your submittal dated 5-5-04, the above referenced plan is approved for Building Permit. Please attach a copy of this approved plan to the construction sets prior to sign-off by Hydrology.

Also, prior to Certificate of Occupancy release, Engineer Certification per the DPM checklist will be required.

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

Sincerely,

Bradley L. Bingham, PE, CFM
City Floodplain Administrator

C: file

DRAINAGE AND TRANSPORTATION INFORMATION SHEET
(REV. 1/28/2003rd)

PROJECT TITLE: NEXTEL - TICONDEROGA ZONE MAP/DRG. FILE #: H-21/D047
DRB #: _____ EPC#: _____ WORK ORDER#: _____
LEGAL DESCRIPTION: 10320 CANDELARIA N.E
CITY ADDRESS: _____
ENGINEERING FIRM: NUCELL COMMUNICATIONS CONTACT: MATTHEW ROBERTS
ADDRESS: 193 EAUEN RD PHONE: 350-6592
CITY, STATE: TIGERAS, NM 87059 ZIP CODE: 87059
OWNER: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____
ARCHITECT: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____
SURVEYOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____
CONTRACTOR: _____ CONTACT: _____
ADDRESS: _____ PHONE: _____
CITY, STATE: _____ ZIP CODE: _____

CHECK TYPE OF SUBMITTAL:

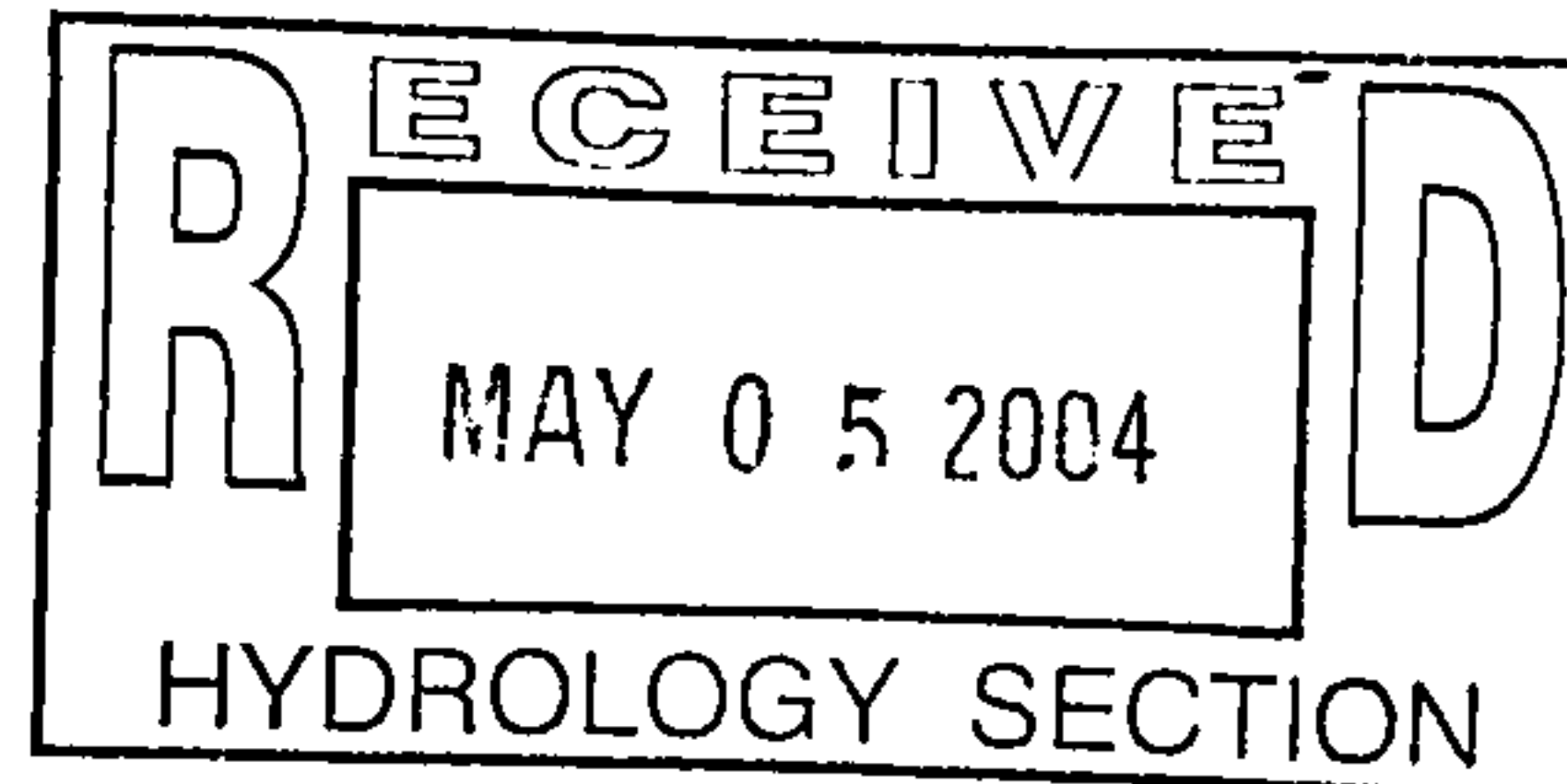
- ☐ DRAINAGE REPORT
☒ DRAINAGE PLAN 1st SUBMITTAL, *REQUIRES TCL or equal*
☒ DRAINAGE PLAN RESUBMITTAL
☐ CONCEPTUAL GRADING & DRAINAGE PLAN
☐ GRADING PLAN
☐ EROSION CONTROL PLAN
☐ ENGINEER'S CERTIFICATION (HYDROLOGY)
☐ CLOMR/LOMR
☐ TRAFFIC CIRCULATION LAYOUT (TCL)
☐ ENGINEERS CERTIFICATION (TCL)
☐ ENGINEERS 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: 5-5-04 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.

GIVEN: • $A_{\text{RUNOFF}} = \frac{(125')(125')}{2} = 7,813 \text{ SF}$

• CONSIDER 100 YR/10 DAY STORM EVENT, ZONE 3

(REF: WWW.AMLEGAL.COM/ALBUQUERQUE-NM)
ALBUQUERQUE DEVELOPMENT PROCESS MANUAL; CHAPTER 22;
SECTION 2 - HYDROLOGY; PART A - PROCEDURE FOR 40 AC OR
SMALLER BASIN

$P_{10 \text{ DAY}} = 4.90$

• EXISTING RETENTION POND AREA = $A_1 = \frac{(28')(13.67')}{2} = 191.33 \text{ SF}$

$A_2 = (4')(39.58') = 158.33 \text{ SF}$

$A_3 = \frac{(13.67')(18.5')}{2} = 252.83 \text{ SF}$
602 SF

602 SF @ 1.4 DEPTH

$V_{\text{POND}} = (602)(1.4) = 843 \text{ CF}$

FIND: • PONDING AREA REQUIREMENTS
• IS EXISTING POND SUFFICIENT

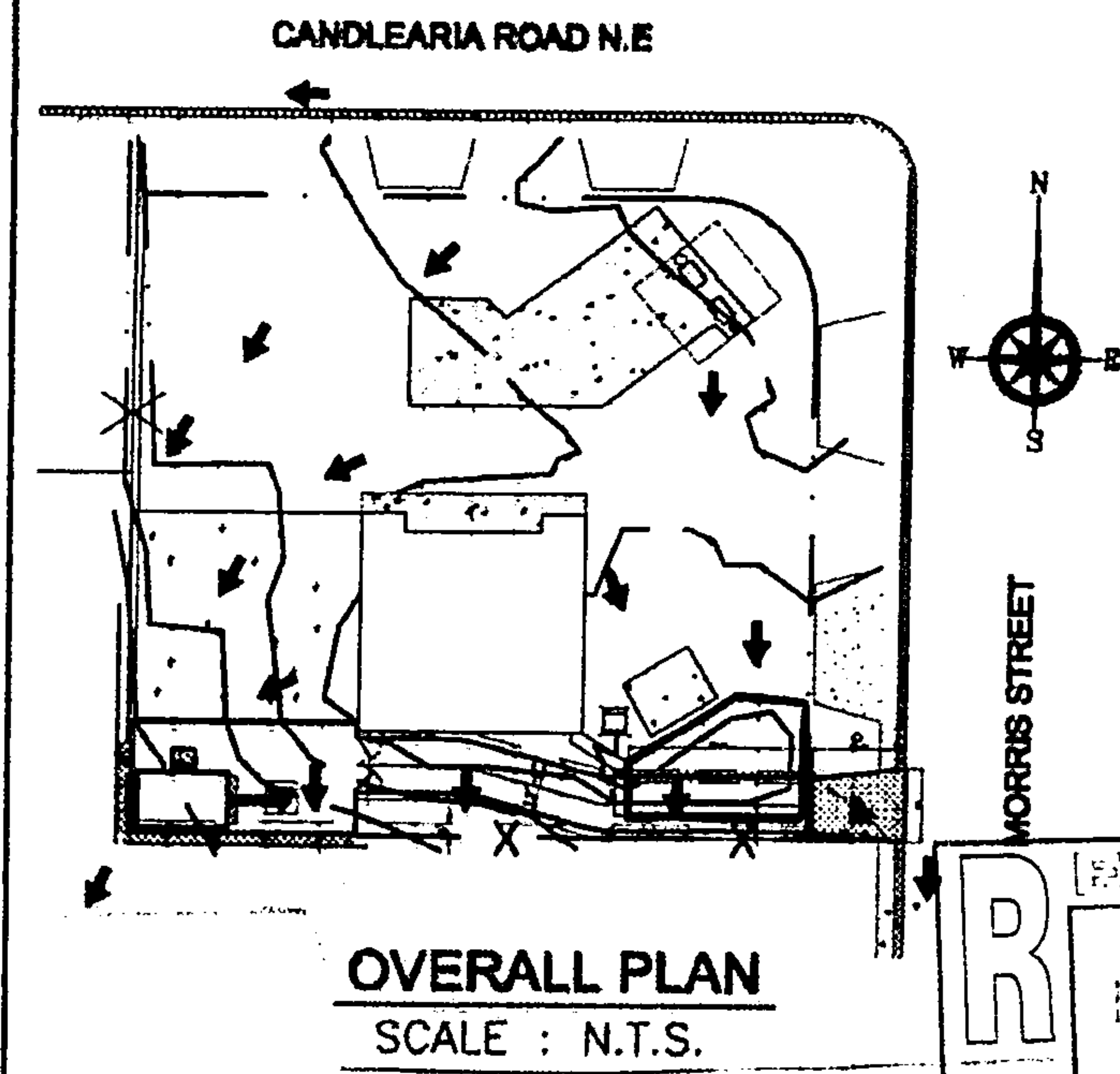
SOLN: • PONDING AREA REQUIREMENTS = $V_{\text{RUNOFF}} = (7,813 \text{ SF}) \left(\frac{4.90}{12 \text{ IN}} \right) = 3,190 \text{ CF}$

• IS PONDING AREA SUFFICIENT =

$V_{\text{POND}} = 843 \text{ CF} < V_{\text{RUNOFF}} = 3,190 \text{ CF} = \text{No!}$

SUGGESTION = > DEPTH NEEDED

$\frac{V_{\text{RUNOFF}}}{A_{\text{POND}}} = \frac{3,190 \text{ CF}}{843 \text{ CF}} = 3.78 \text{ FT}$



RECEIVED
MAY 05 2004
HYDROLOGY SECTION

Kakis Konnection		
P.O. Box 93175 ~ Albuquerque, NM 87199-3175		
Phone: (505) 294-4749 ~ Fax (505) 294-4851		
PONDING CALCULATIONS FOR NEXTEL		
SITE NM0038 TICONDEROGA		
SHEET NUMBER	SITE NUMBER	REV.
EX-1	NM0039	A