

**CITY OF SACRAMENTO
DEPARTMENT OF PLANNING & DEVELOPMENT
ZONING ADMINISTRATOR
1231 I Street, Sacramento, CA 95814**

ACTION OF THE ZONING ADMINISTRATOR

On Tuesday, May 14, 1996, the Zoning Administrator ratified the Negative Declaration and approved with conditions a special permit to add cellular antennas on the roof of an existing office building for the project known as Z96-006. Findings of Fact and conditions of approval for the project are listed on pages 2 and 3.

Project Information

Request: 1. Negative Declaration

 2. Zoning Administrator Special Permit to add eight communications whip antennas on the roof an existing 10 story office building located on 0.37± acres in the Central Business District- Special Planning District (C-3) zone.

Location: 1107 9th Street (D1, Area 1)

Assessor's Parcel Number: 006-0102-002

Applicant: Westsite Wireless (Tom McEfee)
 3426 American River Drive
 Sacramento, CA 95864

Property Owner: Bill Robbins, General Partner
 3426 American River Drive
 Sacramento, CA 95864

General Plan Designation: Community Neighborhood Commercial and Offices
Central City
Community Plan Designation: Multi-Use
Existing Land Use of Site: Office Building
Existing Zoning of Site: Central Business District- Special Planning District (C-3)

Surrounding Land Use and Zoning:
North: C-3 (SPD); Commercial and Office
South: C-3 (SPD); Commercial and Office

East: C-3 (SPD); Commercial
West: C-3 (SPD); Commercial and Office

Property Dimensions: 100 feet by 160 feet
Property Area: 0.37 ± acres
Topography: Flat
Street Improvements: Existing
Utilities: Existing

Project Plans: See Exhibits A-F

Previous Files: None

Additional Information: The applicant proposes to eight communications whip antennas on a support structure mounted on the roof of an existing ten story office building. The equipment room will be located within office space on the tenth floor. The antennas will be 20 feet high. The antennas will be used to facilitate paging communications. Any communications equipment (antennas) which both receives and transmits requires a Zoning Administrator's Special Permit according to the Zoning Ordinance.

The site is located within the Central City Design Review area. The applicant has filed an application with the Design Review staff (DR 96-266). The project will be reviewed by the Design Review/Preservation staff for aesthetics and design. The project will be conditioned to provide design enhancements such as antenna location and an exterior color scheme in order to aesthetically blend with the surrounding mixed use area. The project has been noticed and staff has not received any calls. The project is not within any neighborhood association areas.

Environmental Determination: This project, as proposed, will not have a significant impact on the environment and a negative declaration with no mitigation measures has been prepared and filed.

Conditions of Approval

1. The proposed project shall receive Design Review staff approval for actual antenna location, design, and color scheme prior to issuance of building permits. Size and location of the antennas shall conform to the plans submitted unless the Design Review staff requires panel design/location changes. If changes are required, then the applicant shall submit a revised plan to Planning staff prior to issuance of a building permit.
2. Any additional antennas shall require a modification of the Special Permit. {Eight whip antennas are approved}

3. The applicant shall obtain all necessary building permits prior to commencing construction.

Findings of Fact:

1. The proposed project, as conditioned, is based upon sound principles of land use in that the antennas will be added inconspicuously on an existing office building roof top.
2. The project will not be detrimental to the public health, safety, or welfare nor result in a nuisance in that:
 - a. the proposed cellular equipment shelter will be located within the building and the whip antennas will be located on the roof of the building; and
 - b. the design and location of the antennas will not significantly impact the surrounding commercial area and will be review and approved by the Design Review staff.
3. The project is consistent with the General Plan and the Central City Community Plan which designate the subject site as Community Neighborhood Commercial and Multi-Use, respectively.



Joy D. Patterson
Zoning Administrator

A use for which a Special Permit is granted must be established within two years after such permit is approved. If such use is not so established the Special Permit shall be deemed to have expired and shall be null and void. A Special Permit use which requires a Building Permit shall be deemed established when such Building Permit is secured and construction thereunder physically commenced. If no building permit is required, the use shall be deemed established when the activity permitted has been commenced.

The decision of the Zoning Administrator may be appealed to the Planning Commission. An appeal must be filed within 10 days of the Zoning Administrator's hearing. If an appeal is not filed, the action of the Zoning Administrator is final.

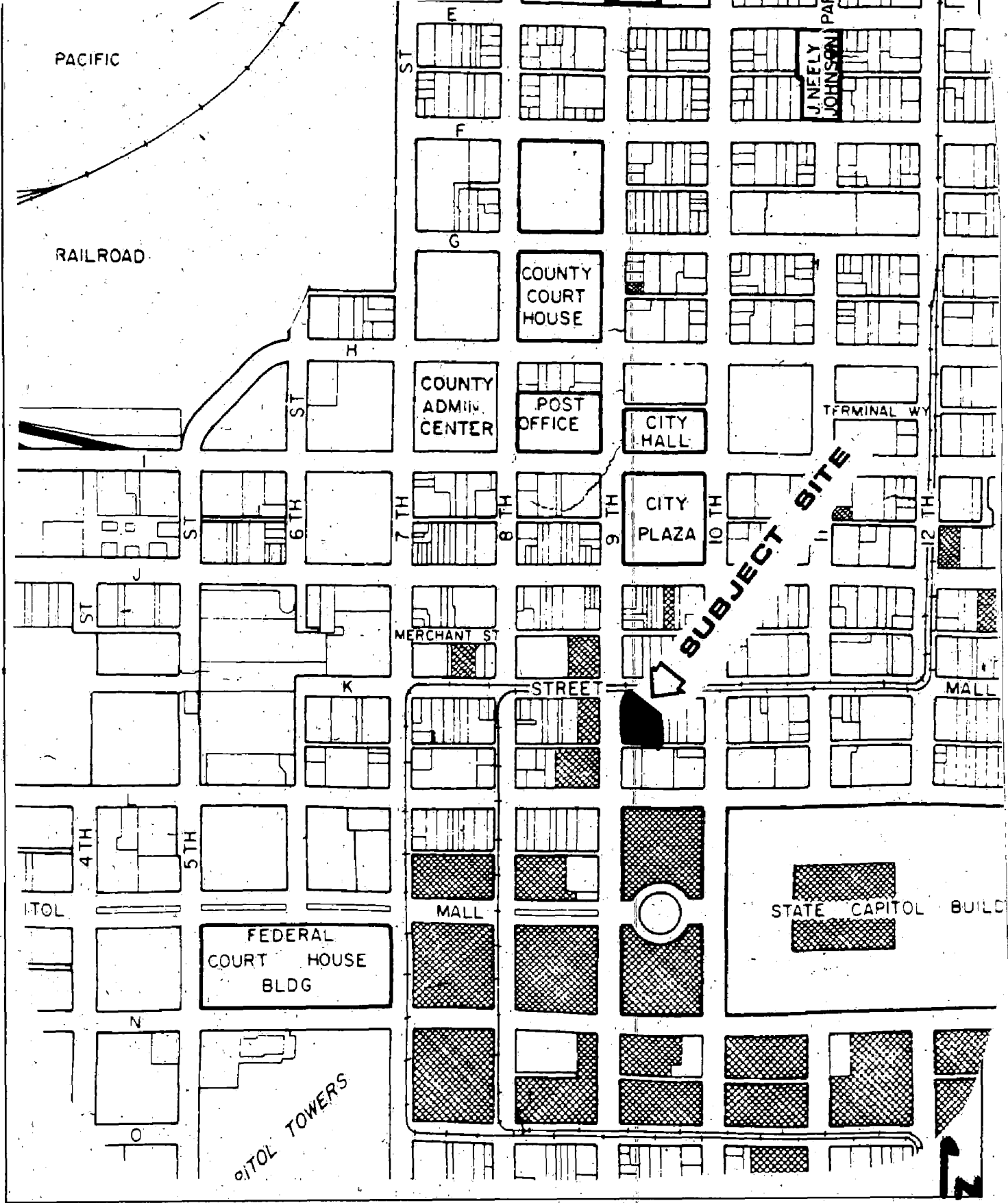
cc: ↘ File

↘ Randy Lum-Design Review

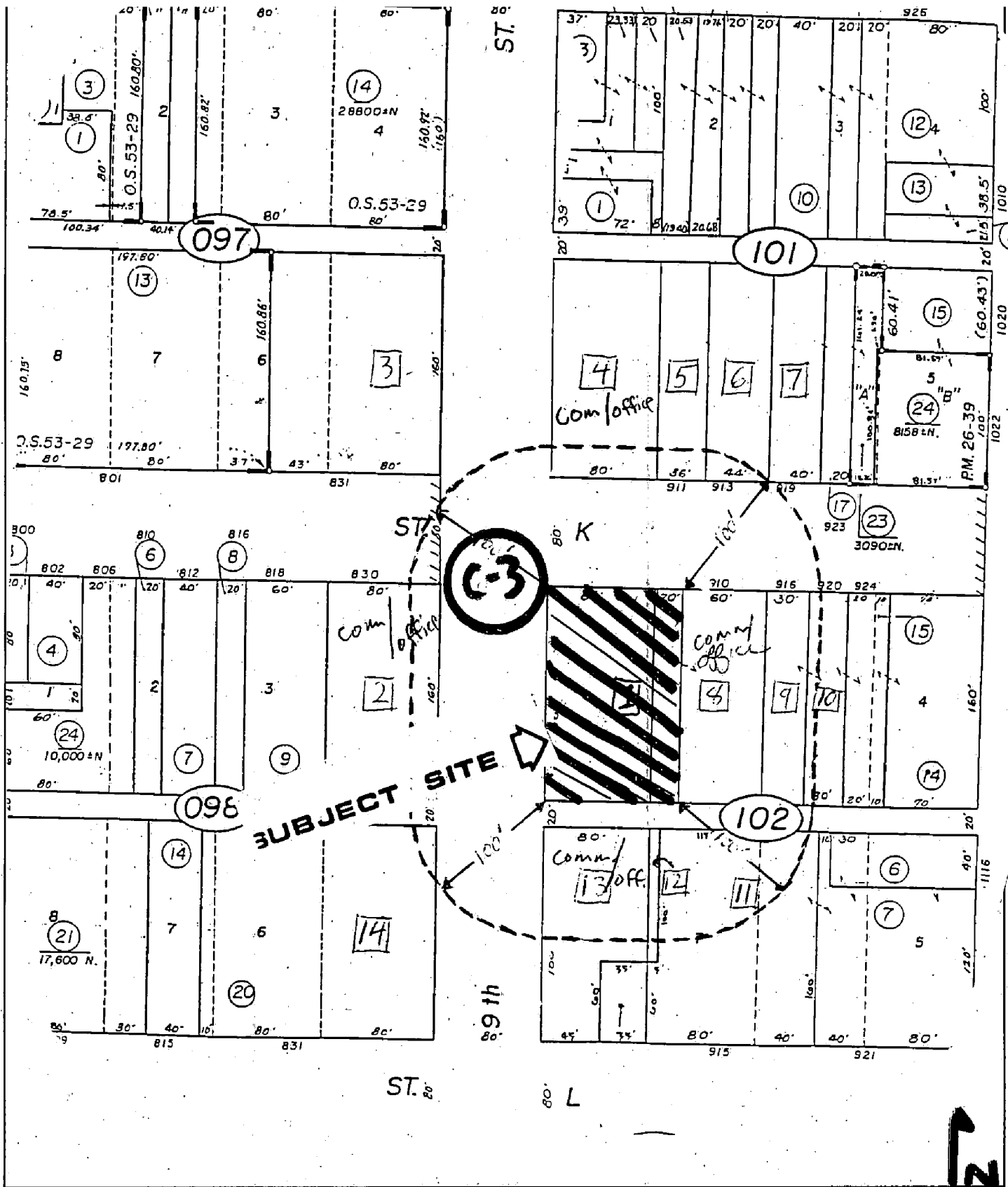
↘ ZA Log Book

↘ Laura Palton; 950 L Street, Ste. C; Sacramento, CA 95814

↘ Applicant



VICINITY MAP

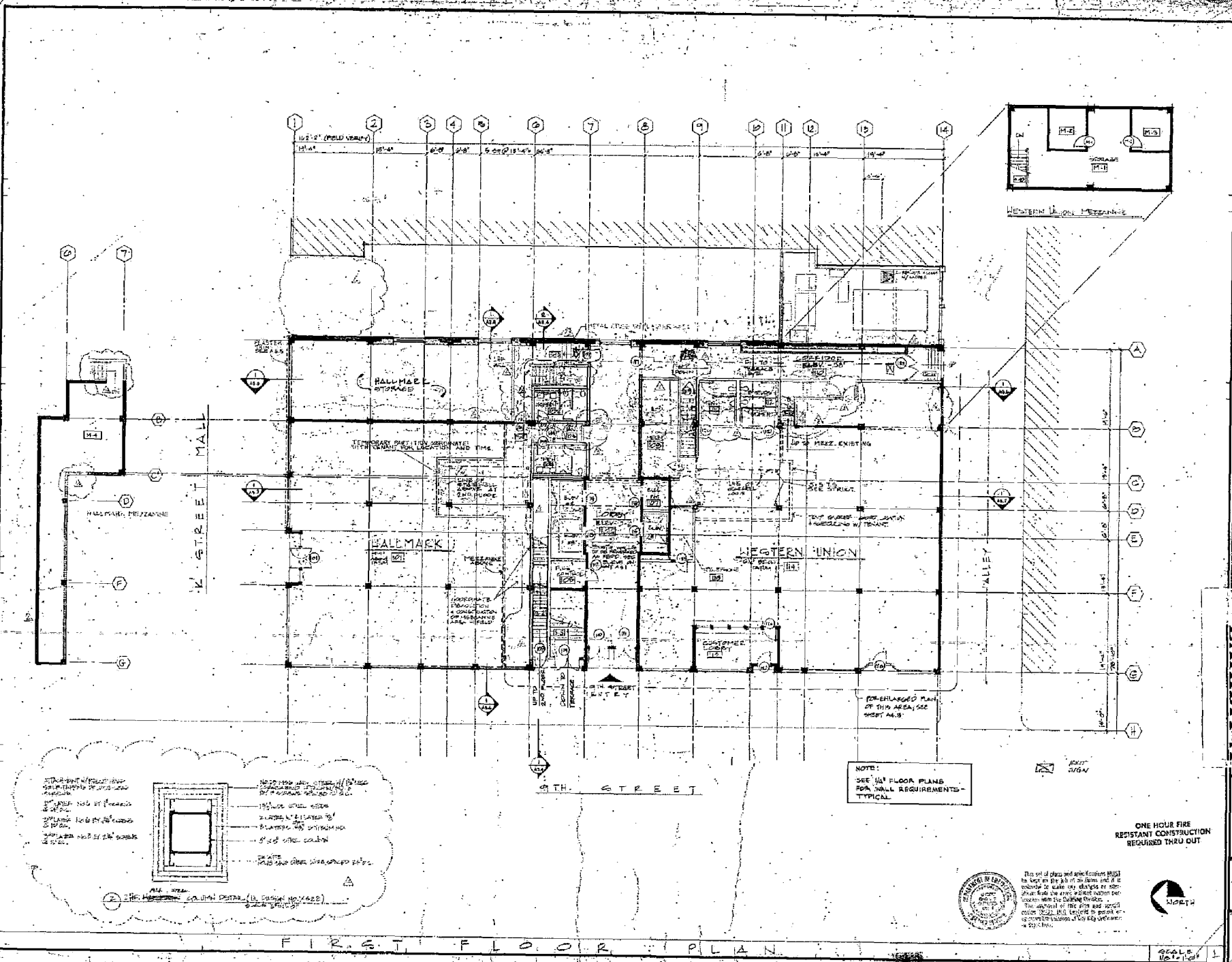


LAND USE & ZONING MAP

296-006

MAY 14, 1966

ITEM 1



FORUM BUILDING REHABILITATION and OFFICE CONVERSION
 9th and W STREET
 SACRAMENTO CALIFORNIA

EXHIBIT A

DATE: 5-14-66
 DRAWN BY: J. H. B. [unclear]
 CHECKED BY: [unclear]
 APPROVED BY: [unclear]

A-2.2

ISSUED
 FEB 1962
 SACRAMENTO CALIFORNIA



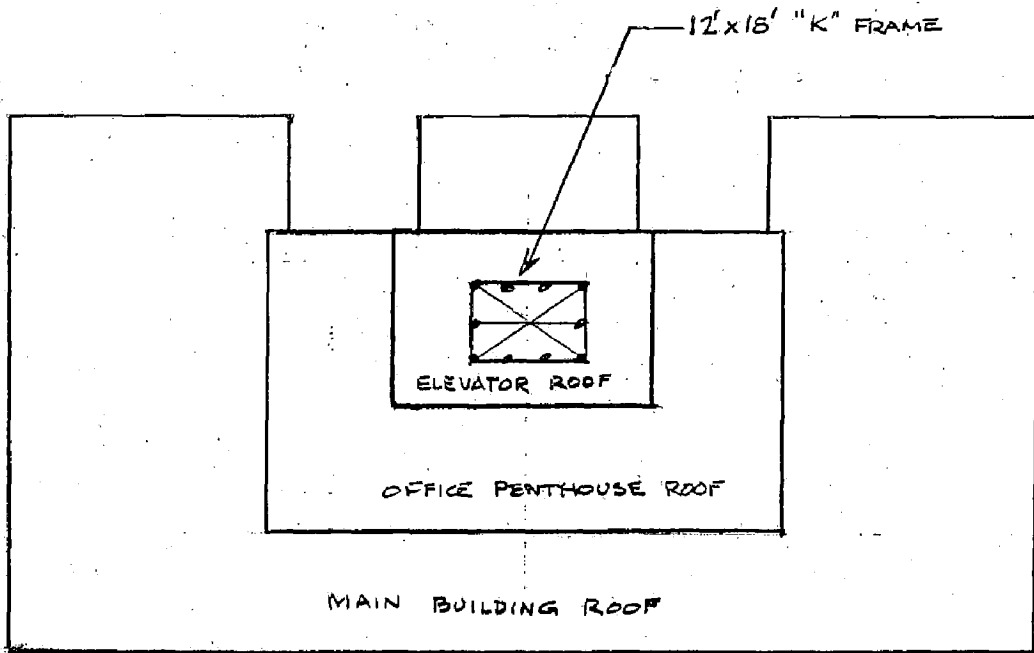
SCALE: 1/8" = 1'-0"

EXHIBIT - B

FLOOR PLAN
Exhibit A (lof2)



"K" STREET



9TH STREET

19,272 500 SHEETS FULLER 8 SQUARE
 42,240 50 SHEETS FULLER 15 SQUARE
 42,380 100 SHEETS EYE-GLASS 8 SQUARE
 42,389 200 SHEETS EYE-GLASS 8 SQUARE
 42,392 200 SHEETS EYE-GLASS 8 SQUARE
 42,392 200 RECYCLED WHITE 5 SQUARE
 42,392 200 RECYCLED WHITE 5 SQUARE



1 796 006

200
796 006

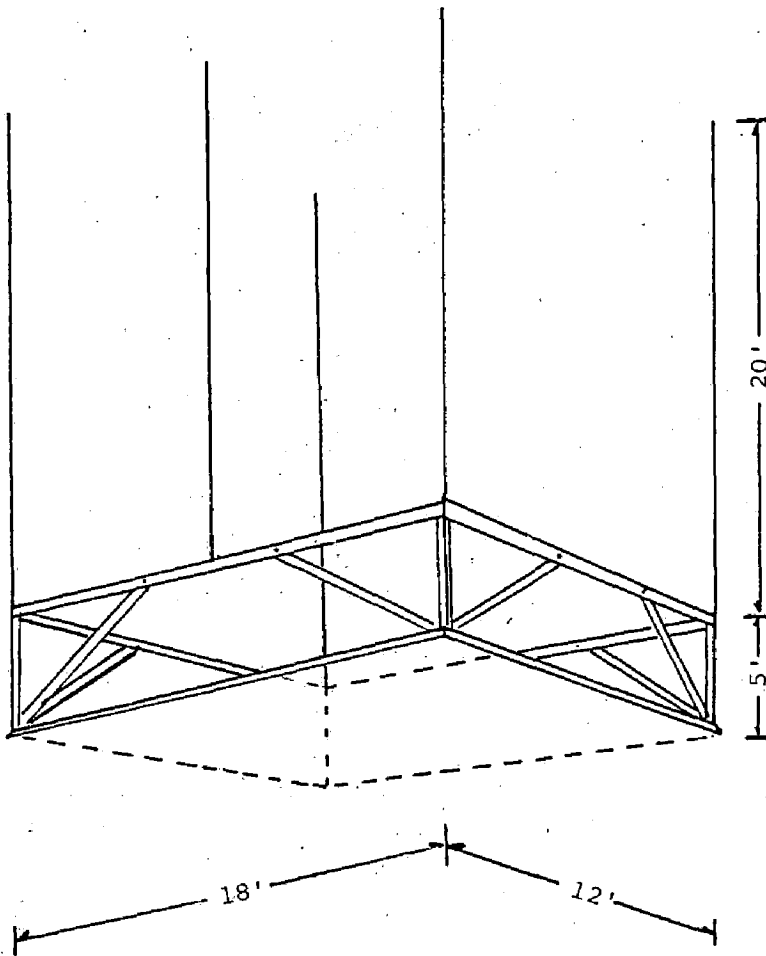
296-006

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ITEM 1

EXHIBIT - C

FORUM BUILDING



- 5 Antennas, maximum 20'

- Galvanized support structure

RECEIVED

MAR 12 1996

CITY OF SACRAMENTO
CITY PLANNING DIVISION

Z 96 - 006

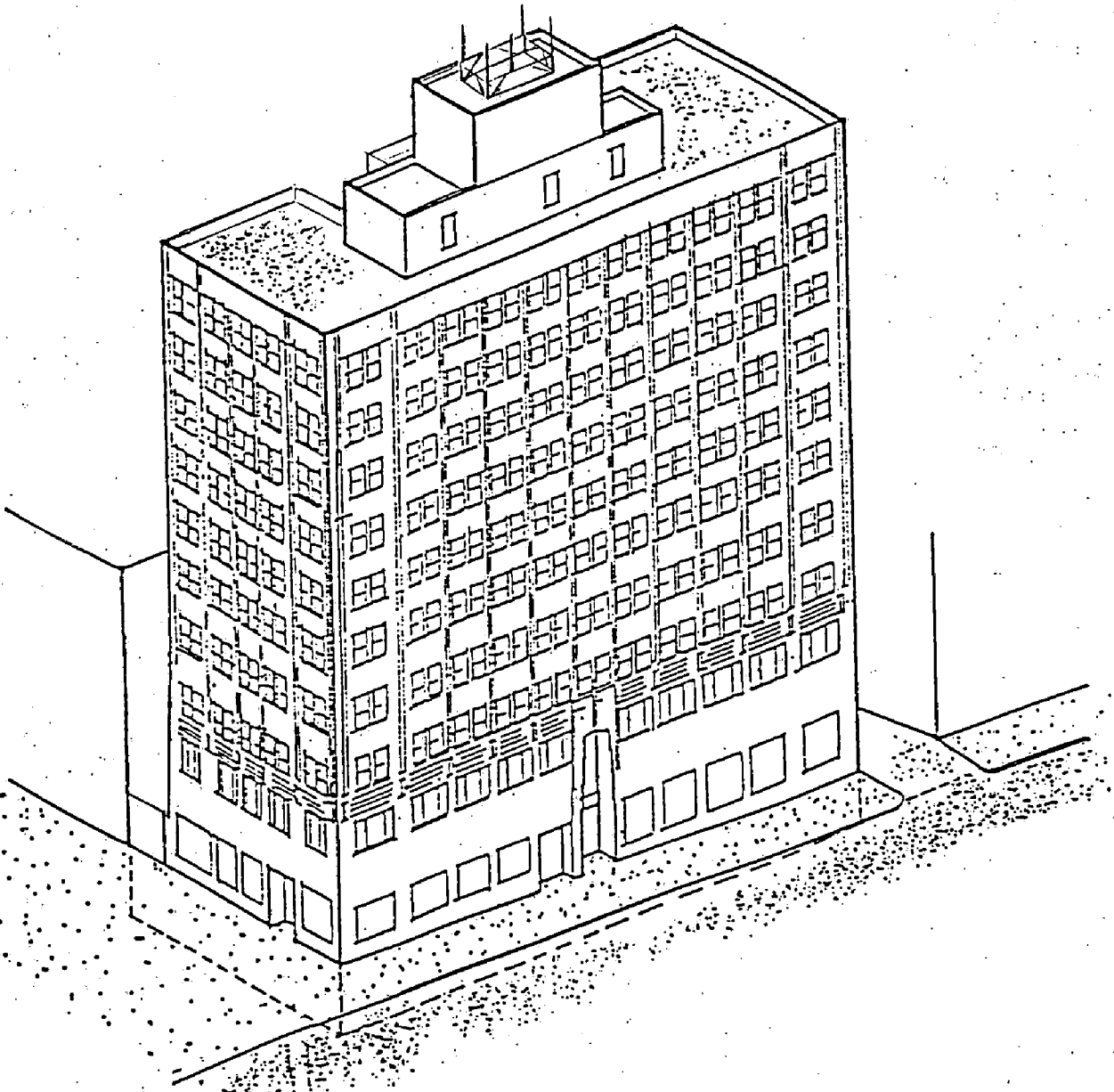
Scale: 1/8" = 1'

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EXHIBIT D



CITY OF SACRAMENTO
PERMIT ASSISTANCE

MAR 12 1996

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Z96-006

FORUM BLDG

1107 9th Street
Sacramento, California

296-006

MAY 14, 1996

ITEM 1

EXHIBIT E

PROPOSED WIRELESS SYSTEM ANTENNA
ADDITION TO FORUM BLDG.

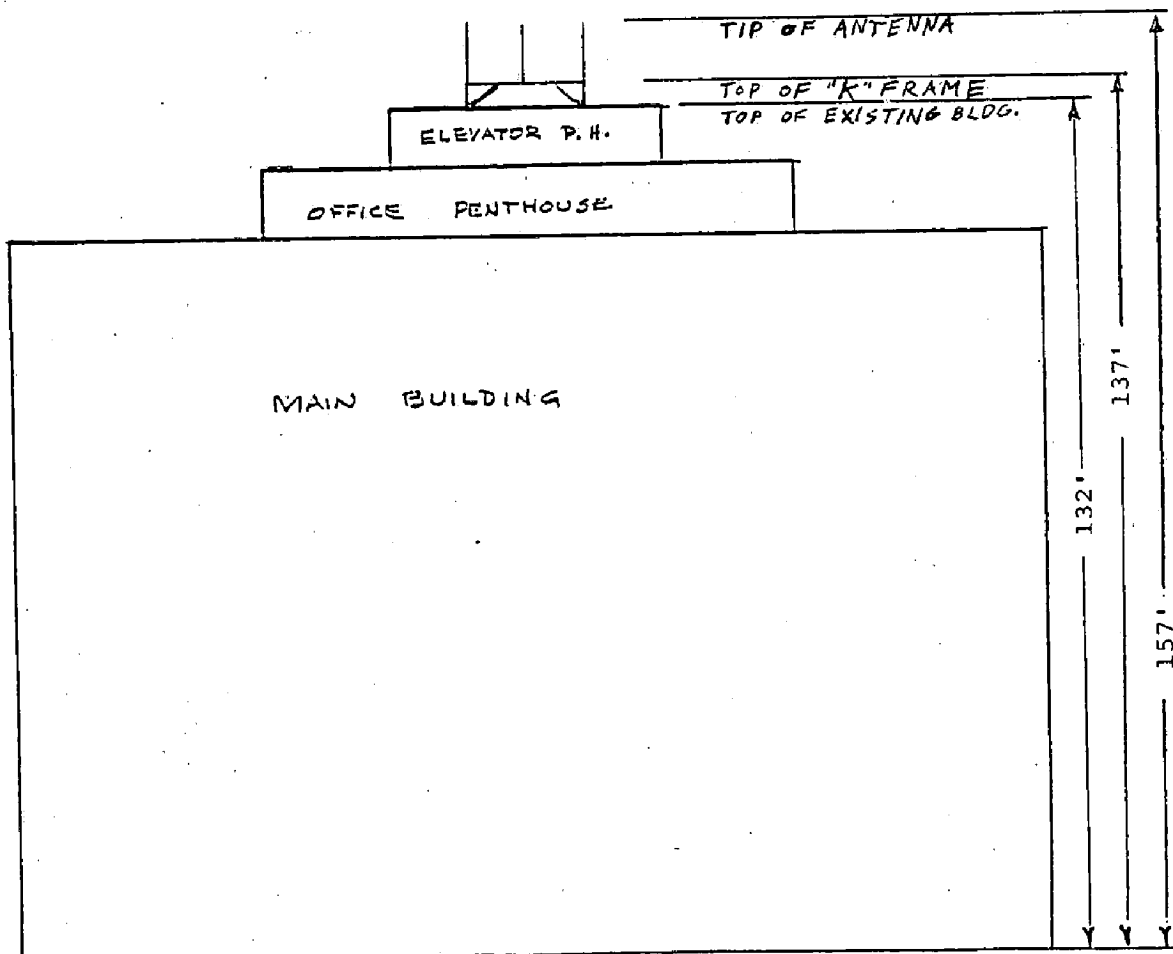
ELEVATION PLAN
Exhibit A (2of2)

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MAR 12 1996

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CITY PLANNING DIVISION

Z96-006



Recycled National Brand
42 383
42 389
42 390
100% RECYCLED PAPER
50% RECYCLED FIBER
MADE IN U.S.A.

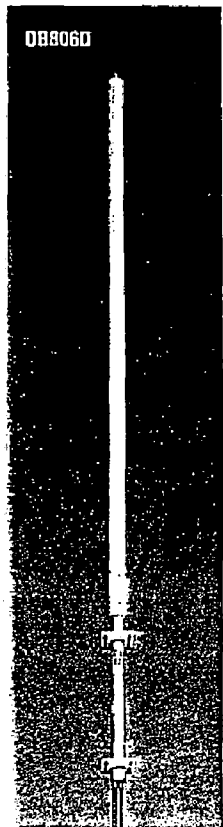
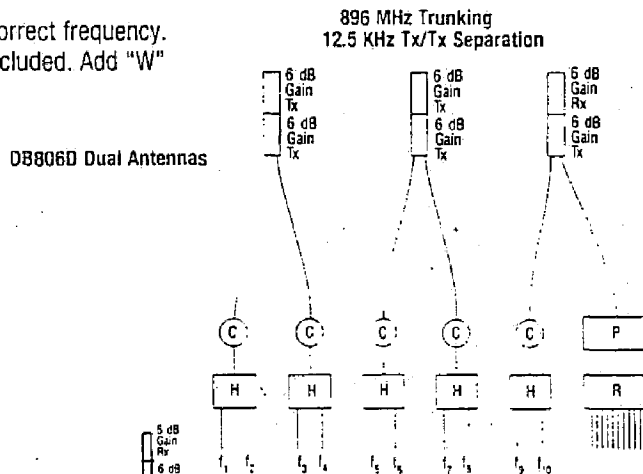
Of Dual-Skirt-Dipole® (DSD) design, the DB806D has two 6 dBd gain antennas and the DB806TL has three in a single radome with 40 dB isolation. Radiators are enclosed in a Horizon Blue™ radome made of 3" (76.2 mm) OD Minimum-Tip-Deflection® (MTD™) fiberglass, which resists high winds with very little tip deflection.

- **Advantages** - Antennas are ideal to save space on towers or buildings where vertical separation provides additional Tx-to-Tx isolation, when frequency spacings are close.
- **Decrease Losses** - Power losses can be decreased when ferrite hybrid combiners are used to combine transmitters as close in spacing as adjacent channels.
- **For 10 Tx/Rx** - See diagram for how three DB806D antennas combine ten 806-901 MHz trunked transmitters, at 12.5 KHz separation, plus accommodate ten receivers in the 851-960 MHz range.
- **Two Triples** - See other diagram for how two DB806TL antennas combine ten transmitters, at 12.5 KHz separation, using two ferrite hybrids, with total losses of only 5.28 dB.
- **Ready to Install** - DB365-OS Clamps for DB806D and DB5087 No-Torsion Mount for DB806TL are provided along with HELIAX® jumper cables.

Ordering Information - Use model number for correct frequency. Mounts, VAPOR-WRAP® and jumper cables are included. Add "W" suffix for optional weatherhead mount.

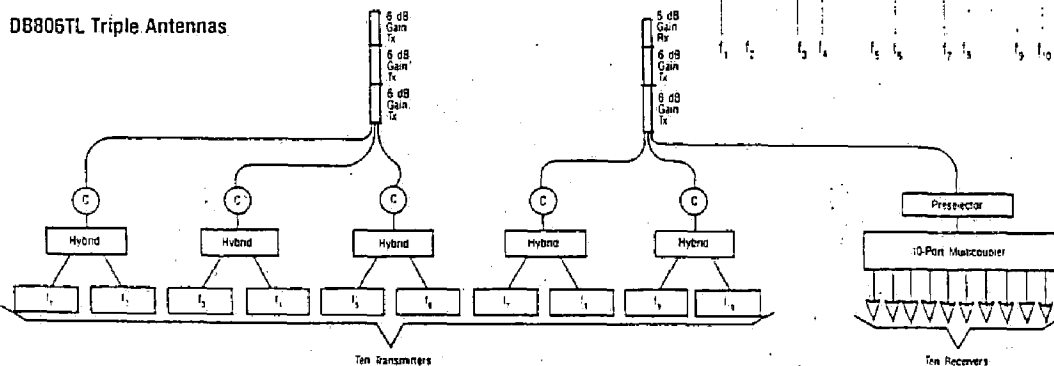
| Frequency Ranges Available - MHz | |
|----------------------------------|---------|
| DB806D-XT or DB806TL-XT | 806-869 |
| DB806D-XC or DB806TL-XC | 824-896 |
| DB806D-Y or DB806TL-Y | 890-960 |
| DB806TL-Z | 851-941 |

For downtilt, available on some models, add (before the D or TL) T3 for 3° or T6 for 6°
Example: DB806T6TL-XC.



Base Antennas

DB806TL Triple Antennas



C - High Q Cavity for Tx Noise Suppression
H - Two Channel Hybrid Tx Combiner
P - Rx Preselector 896-901 MHz
R - Rx Multicoupler
f₁ thru f₁₀ - Ascending in 12.5 KHz Steps

EVERY ANTENNA IS IM AND POWER TESTED!

Electrical Data and Patterns are the same as DB806, previous page.

HELIAX is a registered trademark of Andrew Corporation.

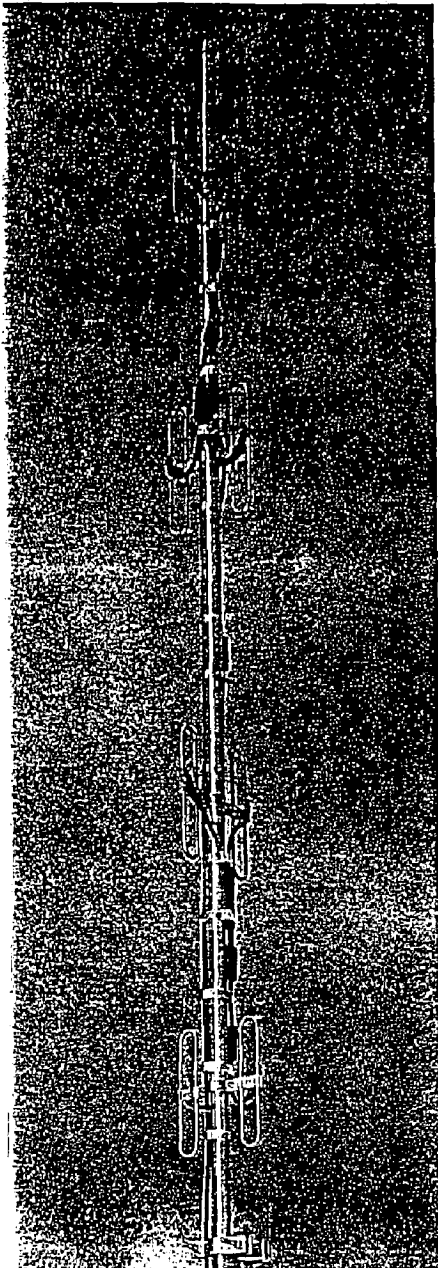
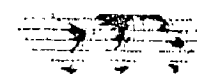
| Electrical Data | | |
|----------------------------------|-----------------------|-----------------------|
| | DB806D | DB806TL |
| Frequency Ranges - MHz | 806-960 | 806-960 |
| Bandwidth - MHz | See table | See table |
| Gain - dB | 6 (each) | 6 (each) |
| Beamwidth "E" Plane (half power) | 16° | 16° |
| Beamwidth "H" Plane (half power) | Omni | Omni |
| Maximum power input - watts | 350 | 250 |
| Input impedance - ohms | 50 | 50 |
| VSWR | 1.5 to 1 | 1.5 to 1 |
| Lightning protection | Direct ground | Direct ground |
| Termination | Type N-Female (fixed) | Type N-Female (fixed) |
| HELIAX® jumper | N-Male/N-Male | N-Male/N-Male |

| Mechanical Data | | |
|---|--------------|---------------|
| | DB806D | DB806TL |
| Radome OD - in. (mm) | 3 (76.2) | 3 (76.2) |
| Radome ID - in. (mm) | 2.50 (63.5) | 2.50 (63.5) |
| Radome length - in. (mm) | 106 (2,692) | 159 (4,039) |
| Mast OD - in. (mm) | 2.50 (63.5) | 2.50 (63.5) |
| Mast length - in. (mm) | 26 (660.4) | 26 (660.4) |
| Maximum exposed area (flat plate equivalent) - ft² (m²) | 1.77 (0.16) | 2.47 (.229) |
| Lateral thrust at 100 mph (161 km/hr) - lbs. (N) | 70.6 (314.2) | 93.4 (415.6) |
| Length - in. (mm) | 132 (3,353) | 178 (4,511) |
| Maximum power input - watts | 350 | 250 |
| Wind survival w/o ice - mph (kph) | 225 (362) | 204.6 (329.2) |
| Wind survival w/ 5" (12.7 mm) ice - mph (kph) | 200 (321.8) | 177.2 (295.1) |
| Tip deflection at 100 mph (161 km/hr) | 1.5° | 4° |
| Bending moment 1" (25.4 mm) below top of mast @ 100 mph (161 kph) ft/lb (N) | 262.5 (356) | 503.6 (682) |
| Net weight - lbs. (kg) | 27 (12.3) | 38 (17.3) |
| Shipping weight - lbs. (kg) | 55 (24.95) | 77 (34.93) |
| Mount | DB365-OS | DB5087 |

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796-006
MAY 14, 1996

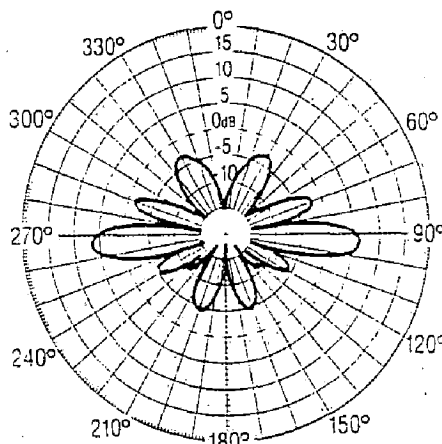
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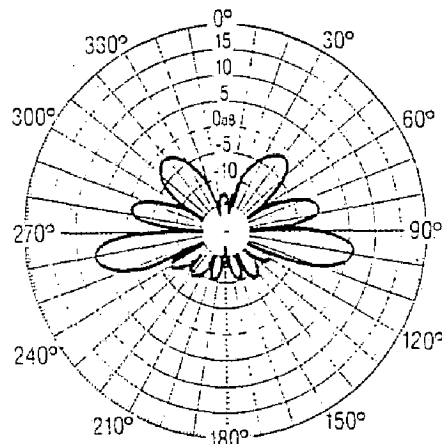
DB408T mounts to the top of a tower or structure and provides 4, 5 or 9 degrees downtilt in omni or elliptical radiation patterns. Ideal for mobile systems that need maximum signal strength close to the antenna.

- **Extremely Rugged** - Resists winds to 125 mph (201 km/hr).
- **Broad Response** - With 14 to 24 MHz bandwidth, this antenna is suitable for duplex operation.
- **Moisture Resistant** - VAPOR-BLOC™ cable harness provides weather protection and assures inphase signal distribution to all elements.
- **Circular Pattern** - DB408T has dual dipoles positioned at 90 degrees from each other.
- **Offset Pattern** - DB408LT has all dual dipoles mounted in line, collinearly, on the mast.
- **Field Changeable** - Patterns can be adjusted with ordinary hand tools.
- **Lightning Resistant** - Radiators operate at DC ground, and the aluminum mast with its pointed top provides a low resistance discharge path to the tower or ground system.

Ordering information - Use model number for correct frequency and specify termination if non-standard. Order DB408T4 for omni with 4.5 degrees downtilt, DB408LT4 for elliptical pattern with 4.5 degrees downtilt, DB408T9 for omni with 9 degrees downtilt, DB408LT9 for offset with 9 degrees downtilt. DB365-OS Clamps are included. Other size clamps can be special ordered. **Example:** DB408T4-B or DB408LT4-B for 450-470 MHz range.



Elevation radiation pattern of DB408T4



Elevation radiation pattern of DB408T9

| Mechanical Data | |
|--|--|
| Mast (aluminum) - in. (mm) | 1.75(44.45) OD with .062 (1.575) wall |
| Radiating elements (aluminum) - in. (mm) | .375 (9.525) OD with .058 (1.473) wall |
| Maximum exposed area (flat plate equivalent) - ft ² (m ²) | 1.9 (.177) |
| Wind rating: | |
| Survival without ice - mph (km/hr) | over 125 (201) |
| Survival with .5" (12.7 mm) radial ice - mph (km/hr) | 85 (137) |
| Lateral thrust at 100 mph (161 km/hr) - lbs. (kg) | 75.5 (34.25) |
| Bending moment at top clamp at 100 mph (161 km/hr) - lbs. (kg) | 250 (113.4) |
| Overall length (450-470 MHz) - ft. (m) | 9.42 (2.87) |
| Net weight (w/clamps) - lbs. (kg) | 17 (7.71) |
| Shipping weight (w/clamps) - lbs. (kg) | 29 (13.15) |
| Mounting clamps (Galvanized steel) | DB365-OS |

| Electrical Data | |
|---|--------------------------|
| Frequency Ranges - MHz | B = 450-470, C = 470-488 |
| Bandwidth | Same as above |
| VSWR | 1.5 to 1 or less |
| Nominal impedance - ohms | 50 |
| Gain (over half-wave dipole) at 0° elevation angle (horizontal) - dB | |
| DB408T4 (4.5° downtilt, Omni) | 5.5 |
| DB408LT4 (4.5° downtilt, elliptical) | 6.7 |
| DB408T9 (9° downtilt, Omni) | 0 |
| DB408LT9 (9° downtilt, elliptical) | 1.2 |
| Gain (over half-wave dipole) - dB | |
| DB408T4 (-4.5° elevation angle) | 6.5 |
| DB408LT4 (-4.5° elevation angle) | 7.7 |
| DB408T9 (-9° elevation angle) | 6.0 |
| DB408LT9 (-9° elevation angle) | 7.2 |
| Rated power input - watts | 250 |
| Lightning protection | Direct ground |
| Standard Termination: Captive Type N-Male attached to end of a flexible lead. Other fittings are available on special order. N-Female is available. If UHF connector is required, an adaptable is provided. | |

Note: Special frequencies are available; call customer services.