




**CITY OF DANIA BEACH
COMMUNITY DEVELOPMENT DEPARTMENT
STAFF REPORT**

DATE: April 23, 2013
TO: Robert Baldwin, City Manager
VIA: Marc LaFerrier, AICP, Director 
FROM: Kristin Dion, AICP, City Planner
SUBJECT: **SE-42-12:** The applicant, Broward County, is requesting a special exception to locate a new communication tower on the northwest corner of a property at 4980 SW 40th Ave.

SPECIAL EXCEPTION

To allow a new communication tower to be constructed (835-50(D)).

PROPERTY INFORMATION:

ZONING: Industrial General (IG)
FUTURE LAND USE: Industrial

The applicant is proposing a 130 foot tall monopole tower used for the transmission of radio signals. The proposed tower is located at the existing Broward County Water and Wastewater Utility Plant located on the east side of SW 40th Avenue approximately 700 feet south of Griffin Road. According to the applicant, Homeland Security deems Water and Wastewater Services facilities as critical infrastructure. Therefore, Water and Wastewater Services is required to maintain complete control of network communications. The proposed tower operator and property owner is Broward County and therefore this does not include a leased area. The tower will be used solely for Supervisory Control and Data Acquisition (SCADA) communications.

The proposed tower is 190 feet from the 40th Avenue right of way, 22 feet from the northern side property line, 431 feet from the eastern property line, 310 feet from the southern property line, and just north of an existing building. Associated conduit will be underground and the proposed panel will be attached to a side wall of the existing building. There will be no ground equipment. The tower will be secured with an 8 foot perimeter fence. There is also an existing 6 foot fence around the entire site which is secured and has limited restricted access.

The site is located to the north and west of residential development and residential development is also located to the west of the site across SW 40th Avenue. Vacant commercial property is located to the north. According to city code, new towers must be a minimum of 250 feet from any residential district. The proposed tower is approximately 270 feet from the closest residential property, which is located on the other side of SW 40th Avenue, west of the site.

PREVIOUS CITY COMMISSION ACTION

On February 26, 2013, the City Commission denied this request by a 3-2 vote. The initial request was for a 135 foot tall tower and also included a variance from the code requirement of an 8 foot perimeter fence. On March 4, Gregory Balicki, PE, Director of Broward County

Water and Wastewater Division requested that the Commission reconsider this item. On March 12, 2013, the City Commission voted in favor of reconsidering this special exception request. The applicant has now amended the request to reduce to the height of the tower to 130 feet and is installing the 8 foot perimeter fence around the tower, thereby eliminating the previous variance request. The applicant is restricting the use of the tower to WWS SCADA communications only and the resolution has been amended to reflect this restriction. This facility provides utility service to residents of Dania Beach as well as Broward County.

STAFF RECOMMENDATION

Approve.



City of Dania Beach, Florida
 Department of Community Development
 Planning and Zoning Division
 (954) 924-6805 X3643
 (954) 922-2687 Fax

Standard Development Application



- Administrative Variance
- Land Use Amendment
- Plat
- Rezoning
- Site Plan
- Special Exception
- Variance
- Other: _____ (SEE APPLICATION TYPE SCHEDULE ON PAGES 3 & 4)

Date Recd: _____
 Planning Department
 Petition No.: SE-42-12

THIS APPLICATION WILL NOT BE ACCEPTED UNTIL IT IS COMPLETE AND SUBMITTED WITH ALL NECESSARY DOCUMENTS. Refer to the application type at the top of this form and "Required Documentation" checklist to determine the supplemental documents required with each application. For after the fact applications, the responsible contractor of record shall be present at the board hearing. Their failure to attend may impact upon the disposition of your application. As always, the applicant or their authorized legal agent must be present at all meetings. All projects must also obtain a building permit from the City Building Division. For more information please reference the **Dania Beach Land Development Code Part 6, Development Review Procedures and Requirements.**

Location Address: 4890 SW 40th, Avenue, Dania Beach, Florida.

Lot(s): 10 Block: 2 Subdivision: _____

Recorded Plat Name: Broward County Utility Plant No. 3 A site

Folio Number(s): 504231-11-0010 Legal Description: Broward County Utility Plant 3A site, PB114, pg35A, Parcel "A".

Applicant/Consultant/Legal Representative (circle one) Applicant

Address of Applicant: 2555 West Copans Road, Pompano Beach, Florida 33069

Business Telephone: (954) 831-0907 Home: _____ Fax: (954) 831-0798

E-mail address: charris@broward.org

Name of Property Owner: Broward County Water & Wastewater Services

Address of Property Owner: 2555 West Copans Road, Pompano Beach, Florida 33069

Business Telephone: (954) 831-0703 Home: Not Applicable Fax: (954) 831-0798

Explanation of Request: Request to construct NON-CELLULAR phone antenna tower on owner's property. For Plats please provide proposed Plat Name for Variances please attach Criteria Statement as per Section 625.40 of the Land Development Code.

Prop. Net Acreage: _____ Gross Acreage: _____ Prop. Square Footage: _____

Existing Use: Water & Wastewater Facility Proposed Use: Same

Is property owned individually, by a corporation, association, or a joint venture? Property is owned by Broward County Water and Wastewater Services.

AUTHORIZED REPRESENTATIVE

I/we are fully aware of the request being made to the City of Dania Beach. If I/We are unable to be present, I/we hereby authorize Expert Construction Managers Inc. (individual/firm) to represent me/us in all matters related to this application. I/we hereby acknowledge that the applicable fee was established to offset administrative costs and is not refundable.

I/we are fully aware that all approvals automatically expire within 12 months of City of Dania Beach Planning and Zoning Board or City Commission approval, or pursuant to the expiration timeframe listed in Part 6 of the Dania Beach Land Development Code.

STATE OF FLORIDA
COUNTY OF BROWARD
The foregoing instrument
was acknowledged

By: [Signature]
(Owner / Agent signature*)

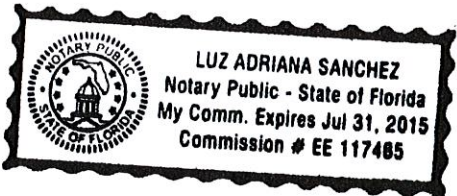
BEFORE ME THIS 4th DAY OF October, 2012

By:

Gregory M. Balicki, P.E.
(Print name of person acknowledging)

[Signature]
(Joint owner signature if applicable)

Notary Luz Adriana Sanchez
(Signature of Notary Public – State of Florida)



Personally known or Produced Identification

Type of identification produced: [Signature] or Drivers License [Signature]

***If joint ownership, both parties must sign. If partnership, corporation or association, an authorized officer must sign on behalf of the group. A notarized letter of authorization from the owner of record must accompany the application if an authorized agent signs for the owner(s).**

NO APPLICATION WILL BE AUTOMATICALLY SCHEDULED FOR A MEETING.

**ALL APPLICATIONS MUST BE DETERMINED COMPLETE BY STAFF
BEFORE PROCESSING OCCURS.**

**NOTICE OF PUBLIC HEARINGS
ON LAND DEVELOPMENT
CODE AMENDMENTS**

CITY OF DANIA BEACH, FLORIDA
A Public Hearing will be conducted by the City of Dania Beach City Commission meeting on the following date:
DATE: Tuesday, April 23, 2013
TIME: 7:00 p.m. or as soon thereafter as the same may be heard
PLACE: City Commission Chambers
Dania Beach Administrative Center
100 West Dania Beach Blvd
Dania Beach, FL 33004

SE-42-12: The applicant, Broward County, is requesting a special exception and associated variance to locate a new communication tower on the northwest corner of a property at 4980 SW 40th Ave.

A RESOLUTION OF THE CITY COMMISSION OF THE CITY OF DANIA BEACH, FLORIDA, APPROVING THE REQUEST FOR A SPECIAL EXCEPTION (SE-42-12) SUBMITTED BY BROWARD COUNTY WATER AND WASTEWATER SERVICES, FROM THE DANIA BEACH LAND DEVELOPMENT CODE, SECTION 835, "TELECOMMUNICATION TOWERS AND ANTENNAS", FOR PROPERTY LOCATED AT 4890 SW 40TH AVENUE, DANIA BEACH; PROVIDING FOR CONFLICTS; FURTHER, PROVIDING FOR AN EFFECTIVE DATE.

Legally described as: BROWARD COUNTY UTILITIES PLANT NO. 3A SITE 114-35 B PARCEL A

Copies of the proposed special exception and variance are available for viewing in the Community Development Department, 100 West Dania Beach Boulevard, Dania Beach, Florida, and may be inspected by the public during normal business hours. For more information please call the Planning Division at (954) 924-6805 x3643.

In accordance with the Americans With Disabilities Act, persons needing assistance to participate in any of these proceedings should contact the City Clerk's office, 100 W. Dania Beach Blvd, Dania Beach, FL 33004, (954) 924-6800 x3623, at least 48 hours prior to the meeting.

Please be advised that if a person decides to appeal any decision made by the City Commission with respect to any matter considered at this hearing, such person will need a verbatim record of the proceedings and for this purpose such person may need to ensure that a verbatim record of the proceedings is made, which record includes the testimony and evidence upon which the appeal is to be based. The city does not provide or prepare such record pursuant to F.S. 286.0105.

Community Development Department
Planning Division
April 12, 2013

SUN SENTINEL PROOF

Customer: CITY OF DANIA (PARENT)

Contact: DONNA KIRBY Phone: 9549218700

Ad Number: 14156931

Insert Dates: 04/12/2013

Section: CE CLASS: 720, 11/2011 PUBLIC HEARING NOTICES DIST: TX 00100

Printed By: CH15 Date: 04/05/2013

Price: 197.05

Signature of Approval: _____ Date: _____




Public Works Department • Water and Wastewater Services
WATER AND WASTEWATER ENGINEERING DIVISION
2555 West Copans Road • Pompano Beach, Florida 33069 • 954-831-0745 • FAX 954-831-0798/0925

DATE: March 4, 2013

TO: Robert Baldwin, City Manager
City of Dania Beach

THRU: Marc LaFerrier, AICP, Director
Community Development Department
City of Dania Beach

THRU: Dominic Orlando, P.E. Director
Public Services Department
City of Dania Beach

FROM: Gregory M. Balicki, P.E. Director 
Broward County Water & Wastewater Division

SUBJECT: **RESOLUTION NO. 2013-020**
APPLICATION MODIFICATION: SE-42-12/VA-53-12:

SPECIAL EXCEPTION - New communication tower construction (835-50(D)).

Broward County Water and Wastewater Services (WWS) application to construct to a 135 foot monopole tower at the existing Broward County Water and Wastewater Utility Plant, located on the east side of SW 40th Avenue and approximately 700 feet south of Griffin Road in the City of Dania, appeared before the Dania Beach City Commission on Tuesday, February 26, 2013. The item was not approved by a 3-2 vote. WWS respectfully requests that this item be reconsidered for approval by the Dania Beach City Commission given that the original application will be modified to include the following revisions.

1. The original application submitted to the City on November 19, 2012 included a variance request (VA-53-12) to omit the 8' perimeter fence required by City code. WWS has no objection to the construction of the 8' fence as required. This change will be reflected on the revised application plan set and the variance will not be requested.
2. Homeland Security deems WWS facilities as critical infrastructure. Therefore, WWS is required to maintain complete control of network communications. WWS will prepare a statement to the application restricting the use of the tower to WWS SCADA communications ONLY. The overall height of the proposed tower has been changed from 135 feet to 130 feet as a result of

Robert Baldwin, City Manager
City of Dania Beach
Page 2 of 2
March 4, 2013

repositioning the antenna. The pole height, which was determined through a line of sight study, remains unchanged.

Based on the aforementioned application modifications, WWS would greatly appreciate your assistance regarding this item. If you have any questions or need further information pertaining to this request please contact me at Ph: (954) 831-0903 or gbalicki@broward.org. Thank you.

GMB/mb

cc: File:9003.3 – 1.07



SEAL

03/22/13

PROJECT:
**BROWARD COUNTY
TOWER PROJECT**
RFP # Y0807901P1
WTP-3A

DEVELOPER:
**EXPERT
CONSULTANTS, INC.**
815 S. WINGS AVE.
BRANDON, FL 33511
PHONE (813) 771-9779
FAX (813) 771-0875
CONTACT: MR. BILL BROWN

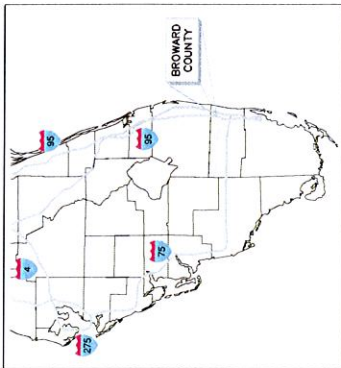
REVISIONS DATE
1. TOWER LOCATION 01/29/13
2. ANTENNAS, L.S. FENCE 03/22/13

ISSUED FOR: PERMIT/CONSTRUCTION
PROJECT MANAGER: ADP
DRAWING BY: JEC
JURISDICTION: DANIA BEACH, FL
DATE: 11/14/12
TITLE:

COVER SHEET
SHEET NUMBER: T-1
JOB/FILE NUMBER: 166.006

BROWARD COUNTY FLORIDA

BROWARD COUNTY TOWER PROJECT
RFP NO. Y0807901P1
SITE: WTP-3A
4980 SW 40TH AVENUE
DANIA BEACH, FL 33312



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CAUTION
...
FOR EMERGENCIES CALL: 911

BROWARD COUNTY, FLORIDA IS PROPOSING TO BUILD A 130' MONOPOLE AT THE EXISTING WASTEWATER TREATMENT PLANT PROPERTY WITHIN BROWARD COUNTY

PROJECT SUMMARY

SHEET DESCRIPTION	REV
T-1 COVER SHEET	1
C-1 OVERALL SITE PLAN AND GENERAL NOTES	1
C-2 SITE PLAN AND TOWER ELEVATION	1
E-1 GROUNDING DETAILS AND NOTES	1

SHEET INDEX

SITE DATA:
LATITUDE: 26° 03' 38.50" NORTH
LONGITUDE: 80° 11' 59.71" WEST
GROUND ELEVATION: 3 FT± (AMSL)
ADDRESS: 4980 SW 40th AVENUE
DANIA BEACH, FL 33312
PARCEL ID: 5042-31-11-0010
DESIGN DATA: FLORIDA BLDG. CODE 2010 & TIA/EIA 222-G-2
COMPOUND WIND SPEED: 170 MPH (PER FBC 2010)
TOWER WIND SPEED: 170 MPH (PER FBC 2010)
ULTIMATE: 170 MPH (PER FBC 2010), TIA/EIA 222-G-2 AS ALLOWED BY FBC 2010 SECTION 1609.3.1. EXCEPTION #5. PER FBC 2010 SECTION 1609.3.1. WIND SPEED SHALL BE BASED ON AN ULTIMATE 3-SECOND GUST WIND SPEED DETERMINED WITH TIA/EIA 222-G-2 GUST WIND SPEED FOR USE WITH TIA/EIA 222-G-2)

EXPOSURE CATEGORY: C
RISK CATEGORY: III
TOPOGRAPHIC CATEGORY: 1
INTERNAL PRESSURE COEF.: N/A
COMPONENT & CLADDING WIND PRESSURES: N/A

PROJECT DATA

BROWARD COUNTY
CARLTON HARRIS
PHONE: 954.631.0907
CHARRIS@BROWARD.ORG

CONTACTS



SEAL:

03/22/23

PROJECT:
**BROWARD COUNTY
TOWER PROJECT**
REP # Y0807901P1
WTP-3A
DEVELOPER:
**EXPERT
CONSTRUCTION SERVICES, INC.**
BRANDON, FL 33511
PH: (813) 971-0879
FAX: (813) 971-0879
CONTACT:
MR. BILL BROWN

REVISIONS	DATE
1. TOWER LOCATION	01/20/23
2. ANTENNAS, U.S. FENCE	03/22/23

ISSUED FOR: PERMIT/CONSTRUCTION
PROJECT MANAGER: AUB
DRAWING BY: EJC
SUBSCRIPTION: DAMA BEACH, FL
DATE: 11/14/22
TITLE: OVERALL SITE PLAN AND GENERAL NOTES

SHEET NUMBER: C-1
JOB/FILE NUMBER: 166.006

PROJECT INFORMATION:

- THIS IS AN UNMANNED AND RESTRICTED ACCESS EQUIPMENT AREA AND WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNALS.
- THIS FACILITY WILL CONSUME NO NONRECOVERABLE ENERGY AND IS EXEMPT FROM THE FLORIDA ENERGY REVIEW CODE.
- NO POTABLE WATER SUPPLY IS TO BE PROVIDED AT THIS LOCATION.
- NO WASTE WATER WILL BE GENERATED AT THIS LOCATION.
- NO SOLID WASTE WILL BE GENERATED AT THIS LOCATION.

STRUCTURAL GENERAL NOTES:

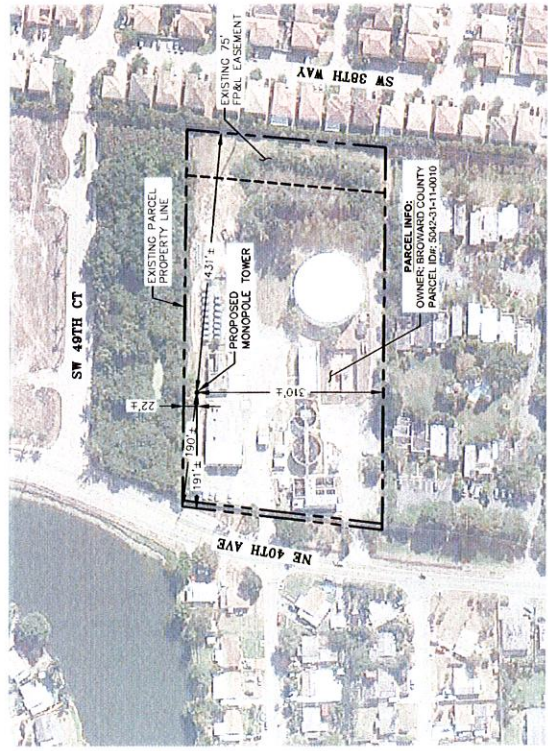
- CONCRETE AND TOWER FOUNDATION DESIGN DOCUMENTS FOR TOWER FOUNDATION GENERAL NOTES:**
- ALL CONCRETE WORK SHALL CONFORM TO AC 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND TO THE PROJECT SPECIFICATIONS.
 - NO HOLES OR SLIVERS SHALL BE MADE THROUGH CONCRETE WORK OTHER THAN THOSE INDICATED ON THE STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE STRUCTURAL ENGINEER.

IMPORTANT NOTICE:

THE EXISTING CONDITIONS REPRESENTED HEREIN ARE BASED ON VISUAL OBSERVATIONS AND INFORMATION PROVIDED BY OTHERS. FORESITE GROUP, INC. CANNOT GUARANTEE THE CORRECTNESS NOR COMPLETENESS OF THE EXISTING CONDITIONS INCLUDING SUBSURFACE CONDITIONS. SUB-CONTRACTORS SHALL VISIT THE SITE AND VERIFY THE EXISTING CONDITIONS AS REQUIRED FOR PROPER EXECUTION OF PROJECT. REPORT ANY CONFLICTS OR DISCREPANCIES TO THE CONSULTANT PRIOR TO CONSTRUCTION.

GENERAL NOTES:

- WORK SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. ALL NECESSARY LICENSES, CERTIFICATES, ETC., REQUIRED BY AUTHORITY HAVING JURISDICTION SHALL BE PROCURED BY THE CONTRACTOR.
- THE GENERAL CONTRACTOR AND EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND CONDITIONS AT THE JOB SITE WHICH COULD AFFECT THE WORK UNDER THIS CONTRACT.
- THE CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO VERIFY THE LOCATION, DEPTH, AND CONDITION OF ALL EXISTING UTILITIES, PLUMBING OR STRUCTURAL ELEMENTS, AND THAT ALL REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE ARE MET.
- NOTIFY THE CONSULTANT OF ANY CONFLICTS. THE CONSULTANT HAS THE RIGHT TO MAKE MINOR MODIFICATIONS IN THE DESIGN OF THE CONTRACT.
- EACH SUBCONTRACTOR SHALL BE RESPONSIBLE FOR DAILY CLEAN UP AND REMOVE ALL DEBRIS FROM THE CONSTRUCTION SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY BRACING AND PROTECTING ALL WORK DURING CONSTRUCTION AGAINST DAMAGE, BUCKLING, COLLAPSE, ETC. ACCORDING TO APPLICABLE CODES, STANDARDS, AND GOOD CONSTRUCTION PRACTICES.
- WHERE ONE DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY MARKED ON THE DRAWINGS OR REFERRED TO IN THE NOTES.
- UTILITIES MARKED ON THE DRAWINGS OR NOTED OTHERWISE SHALL BE PROTECTED BY THE CONTRACTOR. THE CONTRACTOR SHALL MATCH THE EXISTING GRADE, AND ELEVATION SO THE ENTIRE STRUCTURE SHALL HAVE A SMOOTH TRANSITION.
- IF CONTRACTOR OR SUBCONTRACTOR FIND IT NECESSARY TO DEVIATE FROM ORIGINAL APPROVED PLANS, THEN IT IS THE CONTRACTOR'S AND THE SUBCONTRACTOR'S RESPONSIBILITY TO PROVIDE THE ENGINEER WITH COPIES OF THE PROPOSED CHANGES FOR HIS APPROVAL BEFORE PROCEEDING WITH THE WORK. IN ADDITION THE CONTRACTOR AND SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE BUILDING AUTHORITIES FOR THE PROPOSED CHANGES BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR AND SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY INSPECTIONS AND APPROVALS FROM BUILDING AUTHORITIES DURING THE EXECUTION OF THE WORK.



OVERALL SITE PLAN





foreSITE
group

ForeSite Group, Inc.
10-150 Highland Manor Dr.
Suite 2110
Tampa, Florida 33610

☎ (813) 549-3250
☎ (813) 621-3560

www.foresitegroupinc.com
FL CA 26.115

SEAL:

03/12/13

PROJECT:
**BROWARD COUNTY
TOWER PROJECT**
RFP # Y0807801P1
WTP-3A

DEVELOPER:



EXPERT
CONSTRUCTION MANAGERS, INC.
815 S. ANNE AVE.
TAMPA, FL 33610
PHONE (813) 637-2810
FAX (813) 571-0875

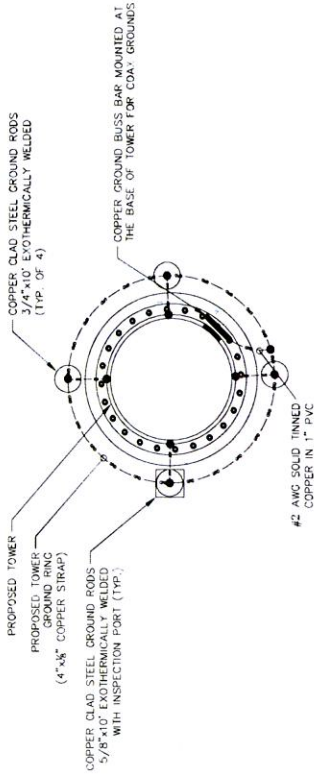
CONTACT: MR. BILL BROWN

REVISIONS DATE
1 TOWER LOCATION 07/20/13
1 ANTENNAS, L.S. FENCE 03/12/13

ISSUED FOR: PERMIT/CONSTRUCTION
PROJECT MANAGER: ADR
DRAWING BY: JEC
JURISDICTION: DANNA BEACH, FL
DATE: 11/14/12
TITLE:

GROUNDING DETAILS
AND NOTES

SHEET NUMBER: E-1
JOB/FILE NUMBER: 166.006



GROUNDING DIAGRAM
NOT TO SCALE

GROUNDING NOTES:

1. ALL GROUNDING CONNECTIONS SHALL BE MADE USING EXOTHERMIC WELDING PROCESS (CAD WELD OR EQUAL) EXCEPT FOR EQUIPMENT CONNECTIONS WHICH MECHANICAL FASTENED ALL LUGS SHALL BE TWO HOLE LONG BARREL TYPE FOR COPPER UNLESS OTHERWISE NOTED.
2. ALL GROUND RODS SHALL BE A MINIMUM OF 10 FEET LONG, COPPER CLAD STEEL (302 OR 304), 5/8" DIAMETER, DRIVEN VERTICALLY DOWN WITH TOPS 30" BELOW GRADE.
3. ALL GROUND CONDUCTORS SHALL BE TINNED SOLID COPPER WIRE, SIZED #2 AWG., RUN 30" BELOW GRADE.
4. GROUND RODS FOR GROUND RING SHALL BE LOCATED 10-16 FEET APART.
5. ANY METAL OBJECT WITHIN 6 FEET OF THE TOWER OR EQUIPMENT GROUND RING SHALL BE BONDED DIRECTLY TO THE RING.
6. THE MINIMUM RADIUS FOR ALL GROUND CONDUCTORS, #6 AWG. OR LARGER SHALL BE 12" ABOVE GRADE. GROUND CONDUCTORS SHALL BE ROUTED DOWNWARD TOWARD EARTH AND ONLY WHERE NECESSARY, HORIZONTAL.
7. ALL CONDUCTORS SHALL BE ROUTED SUCH THAT THERE ARE NO INCLUSIVE ANGLES OF LESS THAN 90 DEGREES.
8. GROUND SYSTEMS SHALL BE TESTED AND SHALL HAVE A RESISTANCE OF 5 OHMS OR LESS. IF RESISTANCE VALUE IS EXCEEDED, NOTIFY OWNER FOR FURTHER INSTRUCTIONS. SUBMIT A COPY OF THE TEST REPORT TO COUNTY PROJECT MANAGER.
9. ALL GROUNDING SHALL COMPLY WITH NFPA 70 (NEC) AND NFPA 780, "LIGHTNING PROTECTION SYSTEMS FOR BUILDINGS AND STRUCTURES".
10. ALL GROUNDING COMPONENTS SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR.
11. ANY METAL CONDUIT MOUNTED ON THE TOWER SHALL BE BONDED TO THE TOWER AT EACH END.
12. WHEN BONDING TO EQUIPMENT, REMOVE PAINT TO BARE STEEL AND PROTECT WITH A COATING OF ZINC RICH PAINT.
13. BOND TO EXISTING BURIED GROUNDING SYSTEMS WHEREVER TWO SYSTEMS CROSS OR COME WITHIN 6"-10" OF EACH OTHER IN A MINIMUM OF TWO LOCATIONS PER SYSTEM.
14. WHEREVER METALLIC SERVICE CONDUITS CROSS BURIED GROUND SYSTEM, BOND WITH EXOTHERMIC WELD AT GROUND CONDUCTOR AND AN APPROVED CLAMP.