Tab 3 T-MOBILE SOUTH, LLC CONDITIONAL USE CU-08-04

Staff Report Conditional Use Permit (CU0804) T-Mobile Cellular Communication Antenna 2625 Terra Ceia Bay Boulevard

BACKGROUND:

T-Mobile is a cellular (cell) communication provider in need of an antenna in northwest Palmetto. This area currently has limited cell service. This request is for the approval of three (3) cell antennas to be located on the top of the Estuaries II condominium building. The attached exhibits identify the proposed locations on the rooftop.

The agent for the applicant met with City staff several months prior to the submittal of the application. The request was described consistent with the current application. In addition to determining the application procedure, staff advised that the applicant seek approval from the Homeowners Association prior to applying for the conditional use permit. They have received authorization and now request approval from the City of Palmetto.

GENERAL LOCATION/PARCEL SIZE:

Location: 2625 Terra Ceia Bay Boulevard

EXISTING LAND USE/ZONING CATEGORY:

Future Land Use: PD (Planned Development)

Zoning: PD-H (Planned Development - Housing)

REQUESTED APPROVAL

A conditional use permit may be issued for the establishment of cell antenna pursuant to Articles 15 and 17 of the Land Development Code. The proposed antenna cannot create an unsafe condition or be detrimental to health safety and welfare of the general public. The following conditions have been analyzed in reviewing this request:

(1) The proposed use shall be consistent with the purpose and intent of the applicable zoning district regulations, this article, and the comprehensive plan. Cell service has become essential. Locating the antenna on top of an existing building precludes having to construct a separate tower





Central & South Florida Engineering & Operations

Tuesday, November 13, 2007

City Palmetto

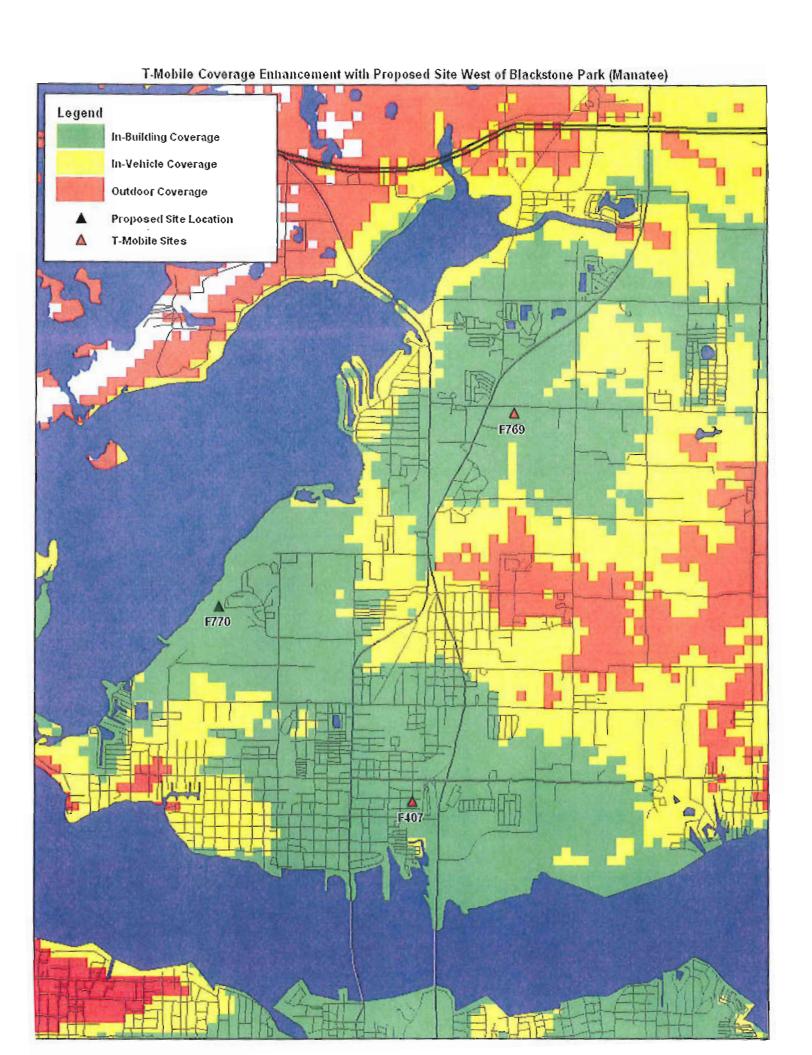
Site A2F0770-C MPE Statement

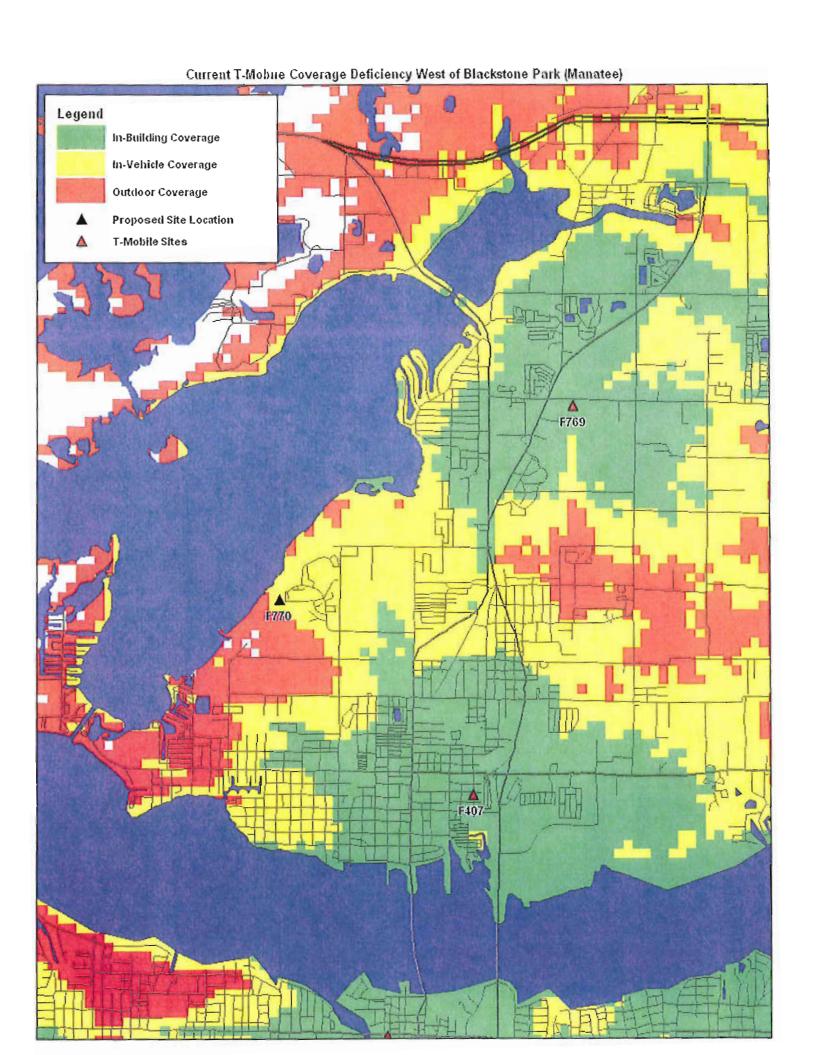
To Whom It May Concern:

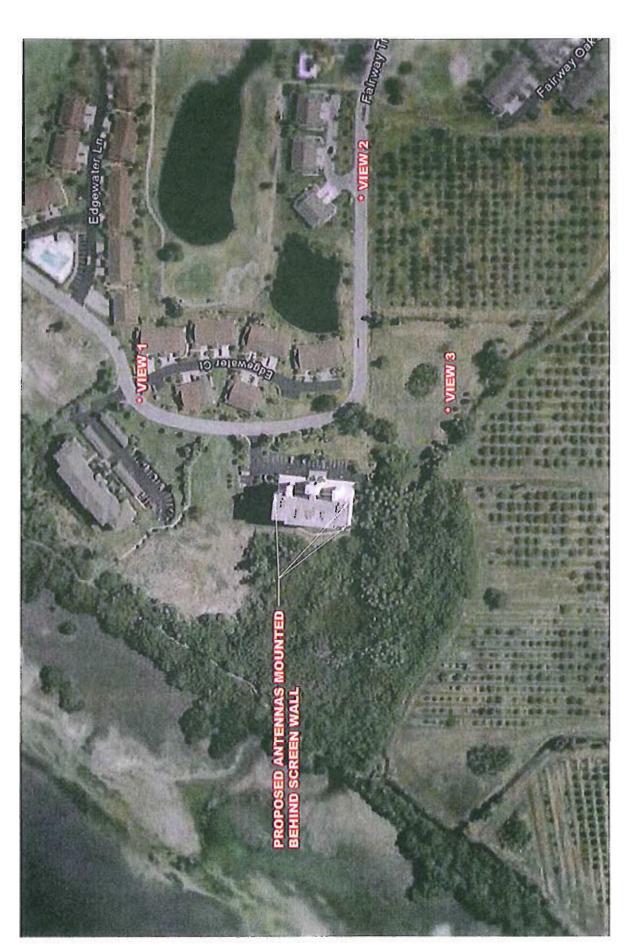
T-Mobile's corporate policy, with respect to radiation emission standards, is to construct radio-transmitting facilities compliant with OET-65 standards. OET-65 is the FCC standard regarding RF emissions. Therefore, the proposed PCS facility, A2F0770-C, will be constructed and deployed in compliance with all FCC guidelines with respect to radio frequency emissions, including OET-65. The FCC has granted a "categorical exclusion from testing" for all PCS 1900 facilities where the antenna centerline (ACL) exceeds 10 meters above ground level and the total power of all channels being used does not exceed 2000 watts ERP, which are both applicable for A2F0770-C.

The below excerpts are taken from the OET-65 standard:

OET at 14-15: Tower-mounted ("non-rooftop") antennas that are used for cellular telephone, PCS, and Specialized Mobile Radio (SMR) operations warrant a somewhat different approach for evaluation. While there is no evidence that typical installations in these services cause ground-level exposures in excess of the MPE limits, construction of these towers has been a topic of ongoing public controversy on environmental grounds, and we believe it necessary to ensure that there is no likelihood of excessive exposures from these antennas. Although we believe there is no need to require routine evaluation of towers where antennas are mounted high above the ground, out of an abundance of caution the FCC requires that tower-mounted installations be evaluated if antennas are mounted lower than 10 meters above ground and the total power of all channels being used is over 1000 watts effective radiated power (ERP), or 2000 W ERP for broadband PCS. These height and power combinations were chosen as thresholds recognizing that a theoretically "worst case" site could use many channels and several thousand watts of power. At such power levels a height of 10 meters above ground is not an unreasonable distance for which an evaluation generally would be advisable. For antennas mounted higher than 10 meters, measurement data for cellular facilities have indicated that ground-level power densities are typically hundreds to thousands of times below the new MPE limits.







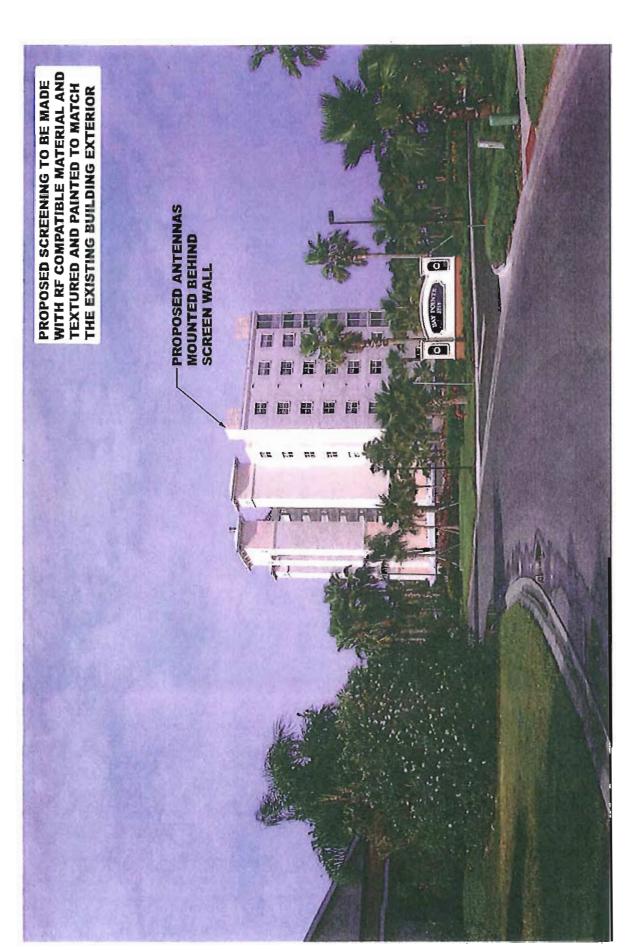
AERIAL VIEW

ESTUARY A2F0770C T-MOBILE

For visual reference only. Actual visibility is dependant upon weather conditions, season, sunlight and viewer location.



Created By: Mike Murphy



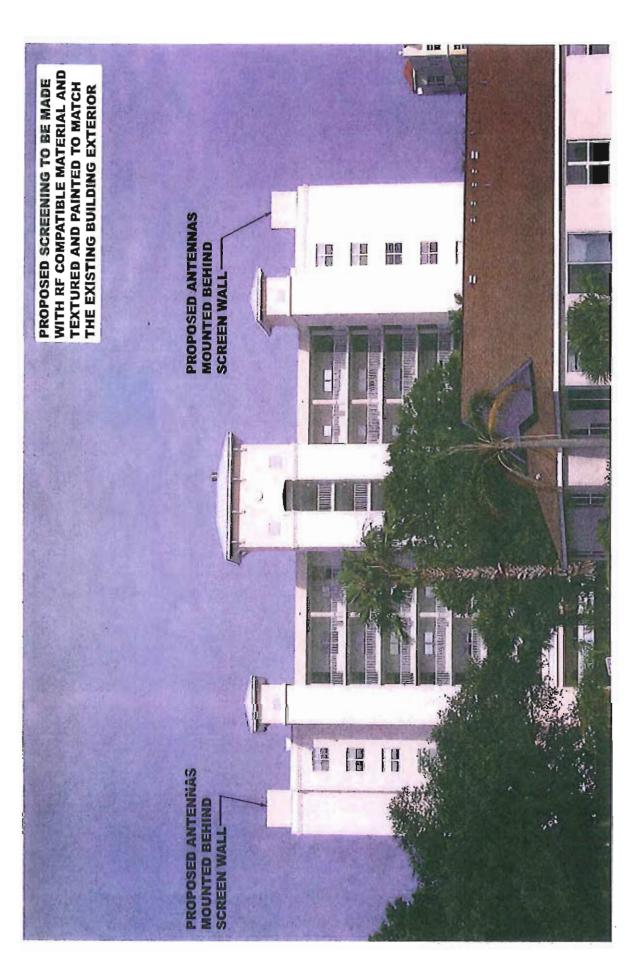
VIEW 1

ESTUARY A2F0770C T-MOBILE



Created By: Mike Murphy

For visual reference only. Actual visibility is dependant upon weather conditions, season, sunlight and viewer location.



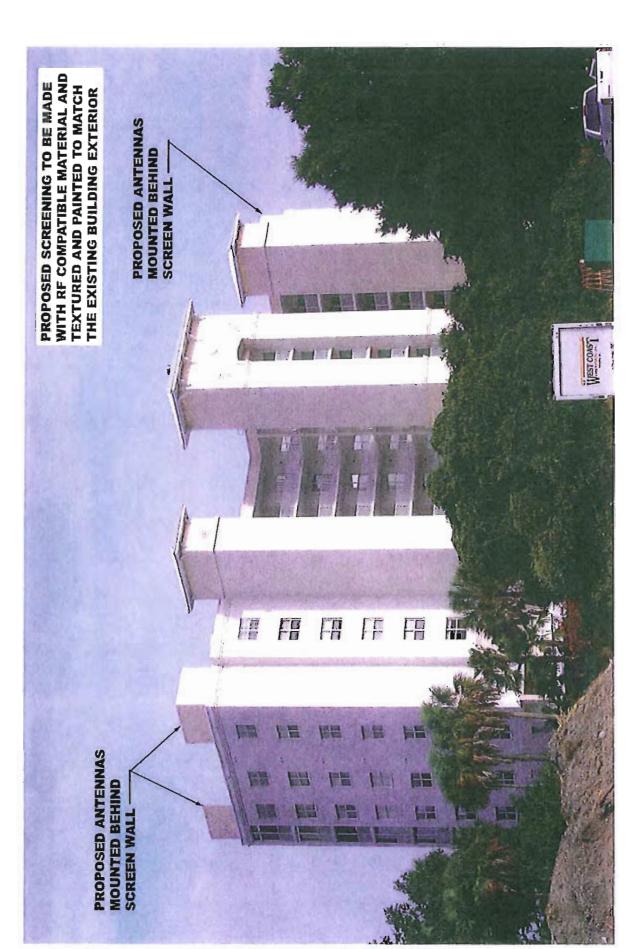
VIEW 2

A2F0770C T-MOBILE **ESTUARY**

For visual reference only. Actual visibility is dependant upon weather conditions, season, sunlight and viewer location.

KCI Technologies, Inc.

Created By: Mike Murphy



VIEW 3

A2F0770C T-MOBILE **ESTUARY**

For visual reference only. Actual visibility is dependant upon weather conditions, season, sunlight and viewer location.



Created By: Mike Murphy



ENGINEERS • SCIENTISTS • SURVEYORS • CONSTRUCTION MANAGERS

Landmark Center II, Suite 220 4601 Six Forks Road Raleigh, NC 27609 (919) 783-9214 (919) 783-9266 Fax

22 April, 2008

T-Mobile Jolene Ratliff 3407 W. Dr. Martin Luther King Blvd. Tampa, FL 33607

RE: Structural Evaluation: Estuary Rooftop

KCI JOB: 10070009AM

Dear Ms. Ratliff:

Pursuant to your request, KCI Technologies, Inc. has completed a structural evaluation of the Estuary rooftop building. T-Mobile is proposing to install communication equipment cabinets on a steel platform and panel antennas concealed by stealth walls connected directly into the existing building parapet walls. They are also adding transmission lines to the existing building rooftop using penetrating roof mounts. KCI utilized a 130 mph wind speed with exposure category 'C' per the 2007 supplements to the 2004 Florida Building Code in the evaluation.

The results of KCl's evaluation indicate that none of the effected components of the structure will exceed the allowable limits based on A.I.S.C, A.C.I and the 2004 Florida Building Code. These results are based on the proposed antennas, transmission lines and platform constructed as shown in the construction documents by KCI, job number 10070009AM.

If you have any questions or need additional information, please do not hesitate to call me at (919) 783-9214.

Robert A. Pruett, P.E.

Associate

License Number: 59754

CU-08-04

Law Office of

LAURALEE G. WESTINE, P.A.

800 Tarpon Woods Blvd., Ste E-1 Palm Harbor, Florida 34685

Telephone: (727)773-2221 Facsimile: (727)773-2616

SENT VIA HAND DELIVERY

June 2, 2008

Frank Woodward II, Deputy Director City of Palmetto Public Works Department 600 17th Street West Palmetto, Florida 34221

Robert M. Schmitt City of Palmetto 600 17th Street West Palmetto, Florida 34221

RE: T-Mobile South, LLC Site Number: F770
Conditional Use Application for Roof Top Antenna Collocation
2625 Terra Ceia Bay Blvd, Palmetto, FL 34221

To Whom It May Concern:

Enclosed herein please find the following documentation supporting my client, T-Mobile South, LLC, (T-Mobile) application for a Conditional Use for Antenna's and related facilities located on the roof top of 2625 Terra Ceia Bay Blvd, Palmetto.

1 original and 5 copies of the following unless otherwise noted:

- Application for Conditional Use
- Agent of Record Letter from The Estuaries II Condominium Association, Inc to Lauralee G. Westine, Esq.
- Agent of Record Letter from T-Mobile South, LLC. to Lauralee G. Westine, Esq.
- Corporate Warranty Deed
- Rooftop Lease with Option between The Estuaries II Condominium Association, Inc and T-Mobile South LLC
- 5 sets of T-Mobile RF Package
- 5 sets of Photosimulations
- Structural Letter from KCI
- List of names and addresses of owners within 300' of parent tract
- 5 sets of Full Size Site Plans
- Title Report (on CD)
- CD of Documents
- · 5 Property Appraisal Reports

RECEIVED

2 2003

City of Palmetto Processional Department

Summary of Project

16-Mobile is requesting the approval of a Conditional Use application to construct Antennas, Screened Wall and related equipment cabinets with a platform located on the rooftop of The Estuary Condominum at 2625 Terra Ceia Bay Blvd, Palmetto. The parcel is owned The Estuaries II Condominium Association. Inc by Parcel Number 2412711505. The parent tract is zoued PD-H and consists of 1.6 acres. The surrounding parcels are zoned PD-H.

Land Development Code Criteria

This application meets the requirements of the City of Palmetto Land Development Code for a Conditional Use as follows:

ARTICLE XVII. TELECOMMUNICATIONS TOWERS, ANTENNAE AND FACILITIES REGULATIONS

Sec. 17.1. Purpose.

The purpose and intent of this article is to provide a uniform and comprehensive set of standards for the development and installation of telecommunications towers, antennae and related facilities. The regulations contained herein are designed to protect and promote public health, safety, community welfare and the aesthetic quality of the city, while at the same time not unduly restricting the development of needed telecommunications facilities and encouraging managed development of telecommunications infrastructure.

T-Mobile's proposed collocation of antennas on the existing rooftop shall be screened so as to protect the aesthetic quality of the city. The location of the antennas will also provide for wireless users in the area of the proposed site to utilize their mobile phones in the event of an emergency and be located more easily by the E911 system.

Building mounted antenna shall mean any autenna, as defined herein, directly attached or affixed to a building or structure. The building mounted antenna shall not be higher than twenty (20) feet above the roof, unless a conditional use pentit is applied for and granted.

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The proposed T-Mobile autennas shall be located less than 10' above the existing height of the root. The antennas and equipment shall be sevening behind a decorative wall which blends into the aestbetics of the existing building. See Photo simulations.

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Existing structure shall mean any building or other structure, other than a tower, which can be used for location of wireless telecommunications facilities.

T-Mobile is proposing to collocate its antennas on the existing structure of The Estuary Condominium located at 2625 Terra Ceia Bay Blvd, Palmetto.

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Sec. 17.3. Application procedure.

All applications for a telecommunication facility must contain the following information.

(1) Plot plan which shows all structures and identifies land usage within five hundred (500) feet of the property boundary of the telecommunication facility.

T-Mobile is proposing to collocate antennas on an existing rooftop which will not affect any existing land use or abutting land use.

- (2) A written report including a description of any tower proposed with technical reasons which supports its design in relation to its proposed site.
- T-Mobile is not proposing a new tower. It is proposing to collocate its antennas on an existing building which meets the engineering needs for its network. See T-Mobile RF package.
- (3) Documentation establishing the structural integrity of the tower or the structure on which the antenna is to be mounted.

T-Mobile is not proposing a new tower, rather please see KCI Structural Evaluation Letter dated April 22, 2008 stating that the rooftop is structurally capable of supporting the antennas and the associated equipment and screen walls.

(4) General capacity of the proposed tower design and the information necessary to assure that American National Standards Institute (ANSI) standards are met.

Please see KCI letter noted above.

(5) A statement of intent on whether co-location space will be available and information regarding proposed co-locators.

T-Mobile is merely a collocator on this existing rooftop. The landowner has the ability to lease additional rooftop space if necessary and requested.

(6) Proof of ownership of the proposed site or proof of authorization to utilize it including copies of any lease agreements.

See Rooftop Lease with Option.

(7) A review deposit of two thousand five hundred dollars (\$2,500.00). All work performed by city employees and city consultants directly and reasonably attributable to review of a telecommunication facility application shall be paid by the applicant. Fees will be based upon the hourly rate of pay of each employee performing the work multiplied by the number of hours worked multiplied by thirty-three and seventeen-hundredths (33.17) percent except for the city attorney and consultant review time which will be charged at actual cost to the city. Any balance due over the established deposit amount will be billed. Any amount under the deposit amount will be refunded.

T-Mobile is not proposing a new tower, rather they are proposing a collocation. This fee is not applicable to collocations.

(8) Copies of any easements necessary.

See Rooftop Lease with Option.

(9) The fiber optic network, if any, utilized by the facility and the names and addresses of the back haul providers.

Verizon

(10) All structures shall be designed to meet or exceed the standards established by the Standard Building Code and the city's building code.

See Page T-1 Structural Note 1.

(11) Plans must be sealed by a professional engineer registered in the state. See Page T-1.

(12) Copies of all approvals issued by other agencies with jurisdiction including but not limited to FCC and FAA.

Proof of FCC limitations are outlined in the RF package provided. Rooftop facilities are not required to be filed with the FAA.

(13) Those telecommunication facilities which are required to obtain a conditional use permit must also comply with the requirements of Article XV of the city's zoning code.

See supporting documentation submitted and explanation below.

Sec. 17.4. Use regulations.

The following use regulations shall apply to telecommunication facilities:

(1) Telecommunication facilities may be permitted as a conditional use in the public, office, commercial and industrial zoning districts as established in the zoning code; provided, however that building mounted antennae as defined herein are allowed as permitted uses in the public, office, commercial, and industrial zoning districts provided the requirements of this article are met.

Although it is the intent of the Land Development Code (LDC) that carriers seek to collocate on existing structures prior constructing new towers, this portion of the LDC is silent as to the approval process of rooftop antennas on PD-H parcels. As such, after discussions with staff, T-Mobile is applying for a Condition Use to add antennas, equipment and screening walls to the existing building located at 2625 Terra Ceia Bay Blvd, Palmetto. The LDC allows antennas to be collocated on existing structures as permitted uses so long as the antennas do not exceed the height of the roof by greater than 20°. T-Mobile's proposed antennas will exceed the height of the roof by 10°.

...

Sec. 17.5. Co-location; availability of suitable existing structures.

No new telecommunication tower shall be permitted unless the applicant demonstrates that no existing tower or structure regardless of whether it is located within the city can accommodate the applicant's proposed antenna. All evidence submitted shall be signed and sealed by appropriate licensed professionals or qualified industry experts. Evidence submitted to demonstrate that no existing tower or structure can accommodate the proposed antenna shall consist of one or more of the following:

- (1) That no existing towers or suitable alternative structures are located within the geographic antenna placement area required to meet the applicant's engineering requirements.
- (2) That existing towers or structures are not of sufficient height to meet the applicant's engineering requirements.
- (3) That existing towers or structures do not have sufficient structural strength to support the applicant's antenna and related equipment.
- (4) That the applicant's proposed antenna(s) would cause electromagnetic interference with the antennae on the existing towers or structures, or the antennae on the existing towers or structures would cause interference with the applicant's proposed antenna.
- (5) That the cost or contractual provisions required by the tower owner to use an existing tower or structure or to adapt an existing tower or structure for shared use are unreasonable. Costs exceeding new tower development are presumed to be unreasonable.

T-Mobile is proposing to collocate antennas on an existing structure and is not proposing to construct a new telecommunication tower.

Sec. 17.6. Standards of approval of all telecommunication facilities.

The following standards shall apply to approval of all telecommunication facilities.

(1) The applicant shall demonstrate, using the latest technological evidence, why the antenna or tower must be placed in a proposed location in order to serve its necessary function in the company's grid system. Part of the demonstration shall include a drawing showing the boundaries of the area around the proposed location which would also permit the antenna to function properly in the company's grid system. The area shall be considered the allowable zone. See T-Mobile RF Package.

•••

(8) Adequate parking shall be required for users of the tower and such maintenance personnel as normal operations require. If the site is not fully automated, the number of required parking spaces shall equal the number of employees working on the largest shift.

The Estuary has adequate parking for the required maintenance personnel of this proposed unmanned facility.

(9) The owner of property used as a telecommunication facility shall maintain such property and all structures in good condition and free of trash, outdoor storage, weeds and other debris. **T-Mobile will comply with this provision of the code.**

.,,

Sec. 17.7. Change of ownership.

Any owner of a telecommunication facility shall be required to notify the city of its intent in writing within thirty (30) days of any transfer, merger or change of ownership. The new owner must fully comply with all provisions of this article and acknowledge in writing acceptance of the conditional use permit.

(Ord. No. 618, § 4, 8-3-98)

T-Mobile shall comply with this provision of the code.

Sec. 17.8. Annual report.

The owner of each company operating a telecommunications facility must provide current information on the facility by the first of October each year by filing an annual report and paying a registration fee of five hundred dollars (\$500.00). This annual registration process consists of providing a list of all users of the telecommunications facility with names, addresses and phone numbers of responsible management personnel. Each user shall provide the city with a copy of each user's license with the FCC. Each telecommunication facility must submit annual registration separately. No approval will be granted to any annual report unless proof of current FCC license is provided. All owners of telecommunication facilities must also obtain an occupational license from the city.

T-Mobile is not proposing to construct a new tower, as such this provision is not applicable. ...

Sec. 17.9. Aesthetics.

The provision of this section shall govern the design and construction of all telecommunication towers, and the installation of all antennae, governed by this article.

(1) Towers and/or antennae shall either maintain a galvanized steel or concrete finish or, subject to any applicable standards of the FAA, be painted a neutral color so as to reduce visual obtrusiveness.

T-Mobile is proposing rooftop antennas that shall be located behind a screen wall which shall blend with the existing building. See Page A-1 and Photo simulations.

(2) The design of all telecommunication equipment buildings, towers, and related structures shall use materials, colors, textures, screening, and landscaping that will blend the tower facilities to the natural setting and building environment.

See submitted site plans and Photo simulations.

(3) For antennae installed on a structure other than a tower, the antenna and supporting electrical and mechanical ground equipment shall be of a neutral color so as to make the antenna and related equipment visually unobtrusive.

T-Mobile is proposing the antennas and related equipment be located behind a screen wall which will blend with the existing building. See Page A-1 and Photo simulations.

(4) Towers shall not be artificially lighted, unless required by the FAA or other applicable authority. If lighting is required, the governing authority may review the available lighting alternatives and approve the design that would cause the least disturbance to the surrounding views.

NA. T-Mobile is not proposing a new tower, rather a rooftop antenna collocation.

(5) No signage or other identifying markings of a commercial nature shall be permitted upon any tower or antennae within the city.

T-Mobile will comply with this provision of the code.

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Sec. 17.10. Setbacks and separation.

The following setbacks and separation requirements shall apply to all telecommunication towers and facilities.

...

(4) Antennae which are mounted on existing structures (i.e. water towers or other tall structures) must meet the minimum setback requirements for the district in which the structure is located.

T-Mobile is located on the existing rooftop and will not change the existing setbacks established.

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Sec. 17.14. Building codes--Safety standards.

To ensure the structural integrity of towers and antennae, the owner of a tower or antennae shall ensure that it is maintained in compliance with standards contained in applicable local building codes and the applicable standards for towers and antennae that are published by the Electronic Industries Association, as amended from time to time. If a tower or antennae fails to comply with all applicable codes and standards, or constitutes a danger to persons or property, then upon receipt of written notice the owner, of the telecommunications facility, shall have fifteen (15) days to bring the facility into compliance with such standards. If the owner, fails to bring the facility into compliance within the fifteen (15) days, the city may remove the facility at the owner's expense. Prior to the removal of any facility, the city may consider detailed plans submitted by the owner, for repair of substandard facilities, and may grant a reasonable extension as determined by the city council of the above referenced compliance period. A lien may be placed on the property to recover said costs.

See KCI Structural Evaluation Letter dated April 22, 2008.

. . .

Sec. 17.15. Abandonment of towers, antennae and facilities.

- (1) Any owner of a telecommunication facility shall notify the city of its intent in writing of any cessation of business or discontinued use and the date such use will cease. If at any time the use of the facility is discontinued for ninety (90) days, the city may declare the facility abandoned. (This excludes any dormancy period between construction and the initial use of the facility.) "Discontinued" shall mean that the structure has not been properly maintained, has been abandoned, become obsolete, is unused or has ceased the daily activities or operations for which it is permitted. The facility's owner will receive written notice from the city, and be instructed to either re-activate the facility's use within thirty (30) days or dismantle and remove the facility. If reactivation or dismantling does not occur, the city shall schedule a public hearing to determine the action to be taken.
- (2) After such hearing has been provided, the city shall have the authority to initiate proceedings to either acquire the facility and any appurtenances attached thereto at the then fair market value, or in the alternative, order the removal of the facility and all appurtenances, at owner's expense. A lien may be placed on the property to recover said costs.
- (3) No telecommunications tower shall be constructed, replaced or altered without obtaining the applicable building permits.

T-Mobile shall comply with this provision of the code.

Sec. 17.16. Conditions of permit issuance.

The applicant shall:

- (1) Maintain public liability and property damage insurance that protects the applicant and the city; naming the city and the city's officers and agents and employees as an additional insured. The insurance shall provide uninterrupted coverage of not less than five million dollars (\$5,000,000.00) for personal injury to each person and five million dollars (\$5,000,000.00) for each occurrence involving property damage, plus costs of defense. The policy shall provide that the insurance shall not be canceled or materially altered without thirty (30) days written notice first being given to the city.
- (2) Maintain on file with city a certificate of the insurance required by section (1) above. Failure to maintain insurance coverage or to provide proof of insurance shall constitute a violation of this article and grounds for fines and/or revocation of the conditional use permit.
- (3) Provide specific performance bond from a company authorized to do business in Florida to the city as guarantee of fulfillment of the owner's obligation to remove the telecommunication tower and facilities upon its abandonment or discontinuation of use. The amount of the bond shall be equal to the removal and disposal cost as certified by a cost estimate submitted by an engineer approved by the city. Failure to maintain such bond or to show proof of such bond upon request of the city shall constitute a violation of this article and shall be grounds for revocation of the conditional use permit. The performance bond may be invoked in accordance with the procedures set forth therein by the city upon a determination by the city council that the tower has been abandoned and that the owner has failed to remove it as required by this article.

- (4) Provide a copy FCC's permits or a copy of documents showing the applicant has applied for a permit from the FCC showing their status as a telecommunications provider and/or carrier doing business as either a wireless, PCS or other telecommunications provider. The actual permit must be provided prior to a issuance of a certificate of occupancy by the city.
- (5) A copy of the finding from the FAA's aeronautical study determination regarding the proposed telecommunication tower siting.

The aforementioned provisions are not applicable in that T-Mobile is proposing a rooftop collocation and not a new telecommunication tower.

. . .

ARTICLE XV. CONDITIONAL USES*

...

Sec. 15.3. Standards and procedures.

A. Site plan: The site plan requirements shall be the same as required by the Subdivision Ordinance. Please see submitted site plan.

B. General regulations: Parking, sign or other applicable requirements as provided by the Code of Ordinances of the City of Palmetto.

NA to T-Mobile's proposed rooftop collocation application.

Sec. 15.4. Special permits.

A. Purpose and intent: This section is established to provide for the granting of special permits where allowed under the provisions of this ordinance. For the purposes of this ordinance, the term "special permit" means a special exception and "special exception" means a use that would not be appropriate generally or without restriction throughout the particular zoning district in which it is allowed, but which, if controlled as to number, area, location, relation to the neighborhood, mode of operation, size, design, establishment, construction, appearance, or similar matters, would promote the public health, safety, comfort, order, appearance, convenience, morals, prosperity, or general welfare.

•••

- C. Standards: The following standards shall apply to all applications for specific permit approval.
- a. Purpose and intent; The Comprehensive Plan: The proposal shall be consistent with the stated purpose and intent of the applicable district regulations and this ordinance, and consistent with the Comprehensive Plan.

The proposed rooftop collocation is consistent with the Comprehensive Plan in that the additional antennas shall provide residents the ability to use wireless communications in the event of an emergency. The proposed addition of the antennas shall not affect the aesthetics of the building in that the antennas are screened and shall blend into the existing architecture. The proposed antennas shall be located 10' lower than permitted by the land development code.

- b. Applicable district regulations: The proposal shall comply, where applicable, to the regulations of the zoning district in which the proposed use is most commonly permitted.

 See above.
- c. Compatibility: The proposal shall be compatible with surrounding land uses and the general character of the area, considering, without limitation, such factors as traffic, noise, drainage, dust, lighting, appearance, and effect on property values.

T-Mobiles antennas and equipment will be located on an existing rooftop behind a screen wall which will be designed to blend to match the existing building which will be compatible with the general character of the area and appearance. The proposed collocation will not add any unnecessary traffic, noise, drainage, dust or lighting. Furthermore, the additional of the antennas shall have no adverse property values. See photo simulations and property appraisal reports.

d. *Environment:* The site shall be environmentally suitable for the proposed use and such use shall not have a substantially adverse impact on the natural environment. Soils, drainage, flood hazards, wildlife, and air and water quality shall be among the factors considered in this regard.

T-Mobile's proposed rooftop attachment to an existing building will have no adverse environmental impact.

e. Orderly development: The proposal shall be consistent with providing for efficient and orderly development, considering, without limitation, such factors as provision of public facilities and services, growth patterns, and energy conservation.

T-Mobile will be able to provide wireless phone service to the surrounding area and enhanced E911. See T-Mobile RF Package. The proposed rooftop collocation is encouraged as an alternative to a new telecommunication tower in the land development code provisions.

f. Public facilities and services: Necessary public facilities and services, such as sanitation, water, drainage, emergency services, education, recreation, and similar facilities and services shall be adequate to serve the proposed use.

This proposed collocation will not require any additional public facilities or services.

g. Traffic: The proposal shall not create hazardous vehicular or pedestrian traffic conditions nor result in traffic exceeding the capacity of streets and intersections serving the use.

T-Mobile is proposing an unmanned facility and will only require normal maintenance visits.

h. Screening and buffering: The proposal shall include screening and buffering as necessary to minimize adverse impacts on surrounding land uses.

T-Mobile's proposal of locating on an existing rooftop behind a screen wall will have no adverse impacts on the surrounding land uses.

i. Signs, lighting: Signs and outdoor lighting which may be involved in the proposal shall be designed to ensure that the use harmoniously fits into its surroundings.

This site will not be required to be lit and will have no commercial signage.

...

In the event that I am able to provide you with additional information or answer any questions that the public may have regarding this application, please not hesitate to contact me or provide my contact information to anyone with questions or concerns.

Sincerely,

Lauralee G. Westine, Esq.

enclosures



T-Mobile Tower @ the Estuaries II

Tobile°

3407 W. DR. MARTIN LUTHER KING BLVD TAMPA, FL 33607

2625 TERRA CEIA BAY BLVD PALMETTO, FLORIDA 34221 PROPOSED COMMUNICATION FACILTY **CO-LOCATE ON EXISTING ROOF TOP**

LATITUDE: N 27°32'16.85" (NAD 83) (±15') LONGITUDE: W 082°35'15.87" (NAD 83)(±15')

ALS.C. CODE OF STANDARD PRIMARIES.

3. STRUCTURAL STEEL PLATES AND SHAPES SHALL CONFORM TO ASTM ASTZ GRADE 50, ALL STRUCTURAL STEEL PIPES SHALL CONFORM TO ASTM ASS GRADE B. ALL STRUCTURAL STEEL TURNG SHALL CONFORM TO ASTM ASOO GRADE B. ALL STRUCTURAL STEEL COMPONENTS AND FABRICATED ASSEMBLES SHALL BE, HOT DOP GALVANZED AFTER FABRICATION.

4. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) D.11-88. STRUCTURAL WELDING CODE-STEEL WELD ELECTRODES SHALL BE E70XX.

6. ALL COASIAL CARLE CONNECTORS AND TRANSLETTER EQUIPMENT SHALL BE AS SPECFED BY THE OWNER AND IS NOT NOLLOED IN THESE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL FURNISH ALL COMMECTION HANDWARE REQUIRED TO SECURE THE CABLES, CONNECTION HARDWARE SHALL BE STANLESS STEEL.

s, north arrow shown on plans refers to true north contract shall verfy north and bygrn dyner of any discrepancy before starting construction.

, HOLES SHALL NOT BE CUT THRU BEAMS UNLESS BIOICATED R APPROVED BY THE ENGINEER,

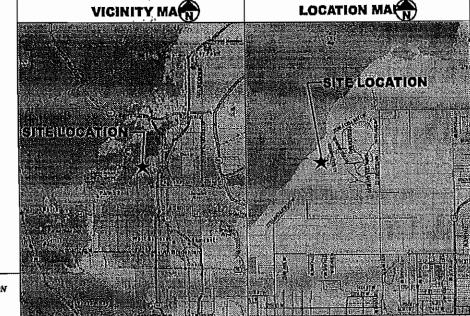
I. UNLESS OTHERWISE NOTED, ALL FIELD CONNECTIONS SHALL E. MADE WITH Y. POWETER HON STRENGTH BOLTS (ASTU-->25), CONNECTIONS SHALL BE DESIGNED AS BEARING YPE WITH THREADS IN THE SHEAR PLANE,

O, CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING DMENSIONS FOR THE JOB PIROR TO THE PREPARATION OF SHOP DRAWNOS. F CONDITIONS OFFER FROM THOSE RODICATED ON THE DRAWNING, THE ENGINEER SHALL BE NOTFED BASEDATELY,

10. ALL STEEL CALVANZED GRATING TO BE WELDFORGED WELDED RECTINGULAR DESIGN, TYPE WB AS MAINFACTURED BY KIG HIDUSTRES, OR APPROVED EQUAL, MAN BEARING BARS TO BE YA'-ZB-", SPACED 130" CENTER-TO-CENTER, CROSS BARS TO BE RESISTANCE WELDED AT RIGHT ANGLES TO THE BEARING BARS BEST HEY SHALL BE SPACED 4" CENTER-TO-CENTER, NO NOTCHING OR CUTTING OR BEARING BARS BEFORE WELDING IS PERMITTED.

13, hot-dip oalvarze Iteus specfed to be zinc-coated, after Fabrication Wiere Practical, calvanzakii astii a 123, astii, a 133/a 133ii or astii a 653/a 633ii, G90, as applicable,

BUILDING OWNER ESTURIES II CONDOMINIUM ASSOCIATION OD HOLMES BEACH PROPERTY MONT PO BOX 1607 HOLMES BEACH, PL



T-MOBILE SCOPE OF WORK

N N 4 2. CONTRACTOR WILL WIRE THE POWER SIDE OF THE PURCELL CABNET AS PART OF THE ELECTRICAL INSTALLATION AND PROVIDE A PULL STRING INTO THE PURCELL CASINET FOR THE TELCO.

(•

10. CONTRACTOR WILL WEATHEAPROOF ALL CONRECTORS WITH A TAPE, BUTTL AND A FINAL LAYER OF 2" TAPE UPON COMPLETOR AND ACCEPTANCE OF THE SWEEP.

IL THE CENERAL CONTRACTOR AND HIS BUBCONSULTANTS SHALL BE RESPONSIBLE FOR OSTANDA ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK.

4, CONTRACTOR WILL PRE-TAPE ALL CONNECTORS WITH Y TAPE BUSINATELY UPON INSTALLATION.

7, CONTRACTOR WILL PROVIDE A COMPETENT CREW ON SITE DURING THE SWEEP AND OA

9, SWEEP AND OA TEAN WILL PROVIDE WRITTEN DOCUMENTATION TO THE CONTRACTOR OF ANY DISCREPANCES AT THE TIME OF

5. CONTRACTOR WILL SET ANTENNA AZABUTH USING AN ALKANIENT DEVICE ACCURATE TO 0.1. E. CONTRACTOR WILL PROVIDE 48 HOURS NOTICE TO SCHEDULE THE SWEEP AND QA TEM.

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| 10401 HG | | DRIVE |
| ROBERT | PRUETT PE | LUS G. YARGAS, JR. P.E. |
| | | |



•Mobil 2F770-C

ENGINEER: ROBERT PRUETT, PE FL LICENSE NO.

Kalas Hames 10070009A

DEET TILE 🗺

TITLE SHEET

GENERAL NOTES

2. ALL WORK PRESENTED ON THESE DRAWMOS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE, THE CONTRACTOR UNLESS NOTED OTHERWISE, THE CONTRACTOR OF MIST HAVE COSSIDER HEREN, BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTED THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEGGERIE, OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY ECCURED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE AND/OR COUNTY IN WHICH IT IS TO BE PERFORMED.

AL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERCEDE ANY CONFLICTING HOTES ENCLOSED HEREIN.

IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE RECITION PROCEDURE AND EFCUENCE TO ASURE THE EMETY OF THE ETHICHTHE AND INFO COMPONENT PARTS DURING PRICTION MOTOR FELD MODEDATIONS, THIS NCLUDES, BUT IS NOT LIMITED TO, THE ADSTROM OF THE MOTOR OF THE CONTRACT BALFOR GUTS OR THE DOWNS THAT MAY BE NECESSARY, SUCH MATERIAL SKALL BE REMOVED AND SHALL REMAN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.

COMPLETION OF THE PROJECT.

8. ALL DECENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWNES BHALL BE FELD VERSIED BY THE CONTRACTOR AND THE TESTING ACENCY PRIOR TO BECOMING ANY MATERIALS CONDERNO, PARRICKION OF CONSTRUCTION WORK ON THIS PROJECT ANY DISTRICT OF THE OWNER AND THE OWNERS ENGINEER. THE DISCREPANCES MIST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROJECT WITH THE WORK, THE CONTRACTO BOUNDAINED THE WORK AND SHALL BE SOLELY RESOLVED THE WORK AND SHALL BE SOLELY RESOLVED FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SOURCES, MO PROJECTION BY THE OWNER AND SHALL BE SOLELY RESOLVED FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SOURCES, MO PROJECTION OF THE PROTECTIVE MEANS AND THE OWNER AND/OR THE ENGINEER SHALL NOT NALL DE REPORTED TO THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES.

THE CONTRACTOR SHALL BE RESPONSELE FOR INTIATING, MANTANING, AND RIPERMISHO ALL SAFETY PREDALTIONS AND PROGRAMS IN CONSECTION WITH THE WORK. THE CONTRACTOR IS RESPONSEDE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLES WITH ALL APPLICABLE LOOM, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS OVERNING THIS WORK. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LAILEST EDITION OF THE LOCAL BULDING CODE.

10, ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED, THE CONTRACTOR SHALL COORDINATE INTEREST CONSTRUCTION ACTIVITY, BIOLUDINO WORK SCIEDULE AND MATERIALS ACCESS, WITH THE RESIDENT LEASING ACENT FOR APPROVAL

IL RADIO EQUIPMENT INSTALLATION BHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS

SITE DATA

POWER: FPI. PHONE VERTEON EONING: PO-H PARCEL NO. SAIRTIMOS JUNISDICTION: OFT OF PAIMETTO



is, contractor shall follow the Manifacturer's instructions/ specifications if no information is contained in these in and or if the Manifacturer's specifications are stricter.

14. REPAR DAMAGED SURFACES WITH GALVARIZING REPAR METHOD AND PART CONFORMING TO ASTM A 780-OR BY APPLICATION OF STICK OR THICK PASTE MATERIAL SPECIFICALLY DESIGNED FOR REPAR OF GALVANIZING. CLEM AREAS TO BE REPARED, NO REMOVE SLAG FROM WELLOS, HEAT SURFACES TO WHICH STICK OR PASTE MATERIAL IS APPLIED WITH A TORCH TO A TEMPERATURE SUFFICIENT TO MELT THE METALLES. IN STICK OR PASTE, SPREAD MOLTEM MATERIAL METOMILY OVER SURFACES TO BE COATED AND WIPE OFF EXCESS MATERIAL.



STRUCTURAL NOTES UTILITIES

CONTRACTOR SHALL CONTACT A SUBSURFACE UTLITY LOCATOR FOR LOCATION OF EXISTING UTBITES PROR TO COMMUNICIENT OF ANY CONSTRUCTION ACTIVITIES. LOCATION OF EXISTING SEVER, WATER LEYES, CAS LINES, CONDUTS OR OTHERS. STRUCTURES ACROSS, UNDERNEATH, OR OTHERWISE ALONS THE LINE OF PROPOSED WORK ARE NOT RECESSALLY SHOWN ON THE PLANS, AND IF SHOWN ARE ONLY APPROXIMATELY CORRECT, CONTRACTOR ASSIMES SOLE RESPONSELITY FOR YEARY AND LOCATION AND ELEVATION OF ALL UNDERGROUND UTBITES INCLUDING YEARY FIND LOCATION AND ELEVATION OF ALL UNDERGROUND UTBITES INCLUDING WORK, CONTACT ENGREEN BAMEDIATELY F. LOCATION OR ELEVATION IS DEFERENT FROM THAY SHOWN ON THE PLANS, OR IF THERE APPEARS TO BE A CONCILIENT, FOR ASSISTANCE IN LOCATION DESCRIPTION OF ASSISTANCE IN LOCATION DESCRIPTION. CUST.
APPROXIMATE COMMUNICATION ECUIPMENT WEIGHT IS 5000%,
APPROXIMATE DEAD LOAD IS 6500%
APPROXIMATE DEAD LOAD IS 6500%
APPORTANCE FACTOR FROM THE FL BULDING CODE 2004 . 115
EXPOSURE CATEGORY FROM THE FL BULDING CODE 2004 . C 2. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE ALS.C. SPECIFICATIONS FOR STRUCTURAL STEEL BULDINGS-ALLOWABLE STRESS DESON AND PLASTIC DESIGN NOLLOWN THE COMMENTARY AND TH ALS.C. CODE OF STANDARD PRACTICE.

THE CONTRACTOR SHALL COORDINATE WITH THE OWNER THE REQUEREMENTS FOR AND LIMITS OF OVERHEAD AND/OR UNDERGROUND ELECTRICAL SERVICE.

THE CONTRACTOR SHALL COORDINATE THE LOCATION OF NEW UNDERGROUND TELEPHONE SERVICE WITH THE TELEPHONE UTILITY AND THE OWNER'S REGUREMENTS. AL UNDERGROUND UTILITIES SHALL BE INSTALLED AND TESTED BATISFACTORY PRIOR TO COMMENCING MAY PAYMON OPERATIONS WHERE SUCH UTILITIES ARE WITHIN THE LIMITS OF PAYMENT.

PERMITS

CONTRACTOR BHALL SECURE ALL NECESSARY PERMITS FOR THE PROJECT FROM ALL APPLICABLE COVERNMENTAL AGENCIES.

MY PERMITS WHICH MUST BE COTANTO SHALL BE THE CONTRACTOR'S RESPONSIBLITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABONG BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.

THE CONTRACTOR SHALL REWORK (ORY, SCARFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SIBORADE IN THE PRESENT STATE, F. THE MATERIAL AFTER REWORKING, REMAINS INSUITABLE THEM THE CONTRACTOR SHALL UNDEROUT THE MATERIAL AND REPLACE WITH APPROVED MATERIAL AT HIS EXPENSE, ALL SUBCROOTE SHALL BE PROOF ROLLED WITH A FULLY LONGED TABLES MALE DIAP TRUCK PROR TO PAYNO, ANY SOFT MATERIAL SHALL BE REWORKED OR REPLACED.

ALL DAISMSONS SHALL BE VERFED WITH THE PLANS (LATEST REVISION)
PRIOR TO GOMENICHO CONSTRUCTION, NOTEY THE OWNER BURGUETLY F
BUSCHEPPROES ARE (RSDOVERED, THE CONTRACTION SHALL MAY A SET OF APPROVED
PLANS AVALARIE AT THE SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. A
DESIGNATED RESPONSESSEE EMPLOYEE SHALL BE AVALABLE FOR CONTACT BY
COVERNING AGENCY RESPECTORS.

DEMOLITION NOTES

MANTAN AT ALL TIMES A SAFE AND CLEAR MEANS OF EGRESS TO AND FROM THE OCCUPIED AREAS OF THE BUILDING FOR PUBLIC WORK.

THE ANOUNT OF DUST RESULTING FROM CUTTEN AND JONGHO SHALL BE CONTROLLED TO PREVENT THE SPREAD OF DUST TO OCCUPED PORTIONS OF THE BULDING AND TO AVOID THE CREATION OF A NUSANCE N THERE SURFACE DUST PROVIDED DROP CLOTHE OR OTHER SUTABLE BARRIERS TO PREVENT DUST FROM TRAVELING TO OTHER PORTIONS OF THE BULDING.

WHERE PENETRATIONS ARE MADE FROM THE NEW CONSTRUCTION THRU AND INTO THE EXISTING SPACES, THE JOHNERY SHALL BE ACCOMPLISHED IN SUCH A MANUAL THAT THE FLOOR WALL AND CELEMO PLAKES ARE NEAT AND FLUSH THE NEW SOMERY SMALL EXTEND STORE ESTIMATE SPACES SO THAT THE NEW FINSSES TERMINATE AT CORNERS OR OTHER APPROPRIATE JUNCTURES IN PLAKE.

AS-BUILT CONDITIONS MUST BE VERFEO BY THE GENERAL CONTRACTOR.

NEW CONSTRUCTION NOTES

REPARS - THE CONTRACTOR SHALL USE THE EXISTING ROOFING WARRANTY CONTRACTOR TO REPAR HOLTS DAMAGES, AND ALTERATIONS TO THE ROOF F EXCESSIVE COSTS ARE ASSOCIATED WITH THIS ROOFING CONTRACTOR THE CONTRACTOR SHALL NOTEY THE CLENT OF THE STILATION AND ARREE UPON AN ALTERALTE ROOFING CONTRACTOR TO PERFORAL THE WOR

references - Perform Work in accordance with the National Roofing and Waterproofing Marual,

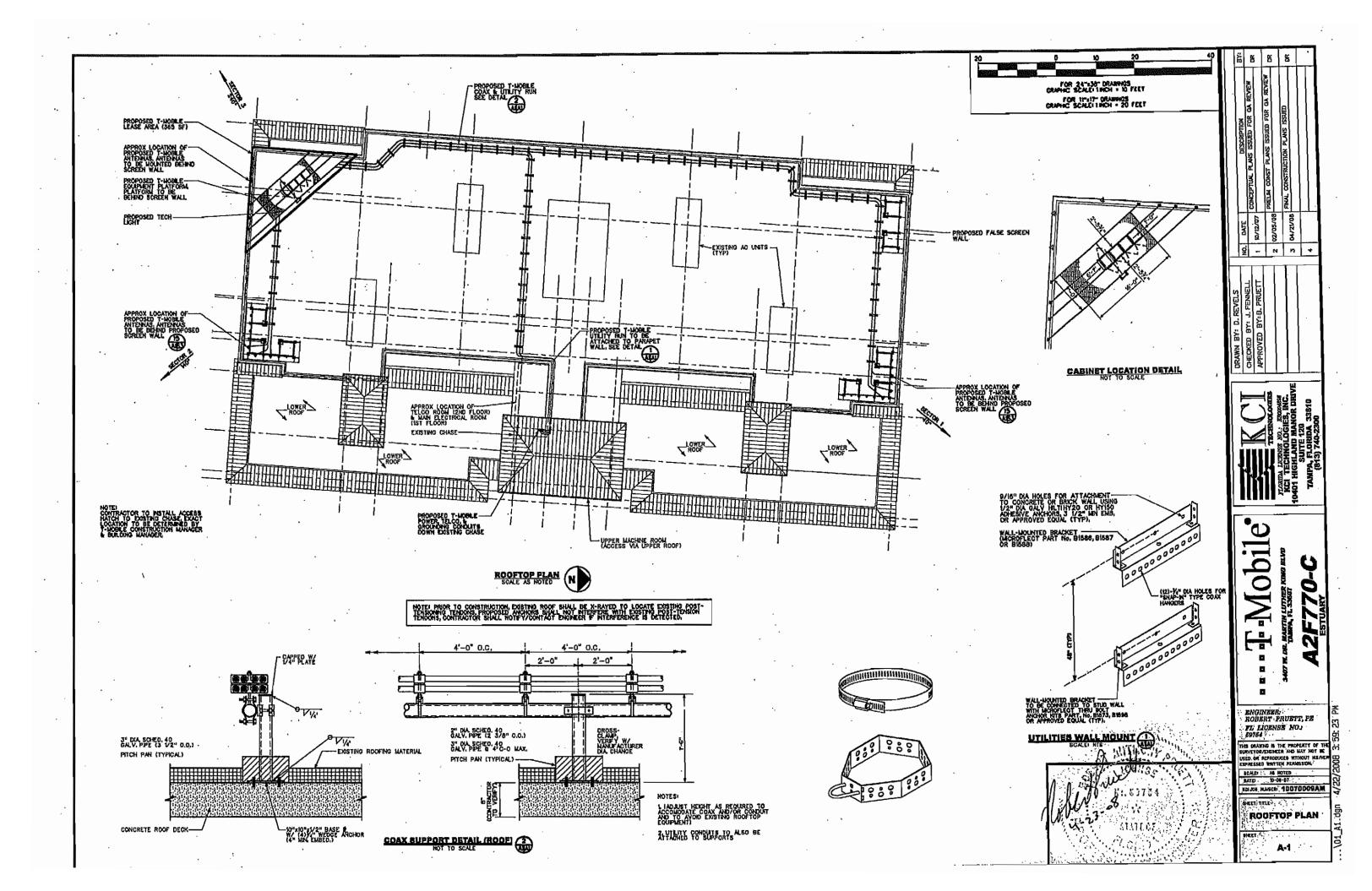
PROFICE IN TO PREVENT NOT DIMENS.

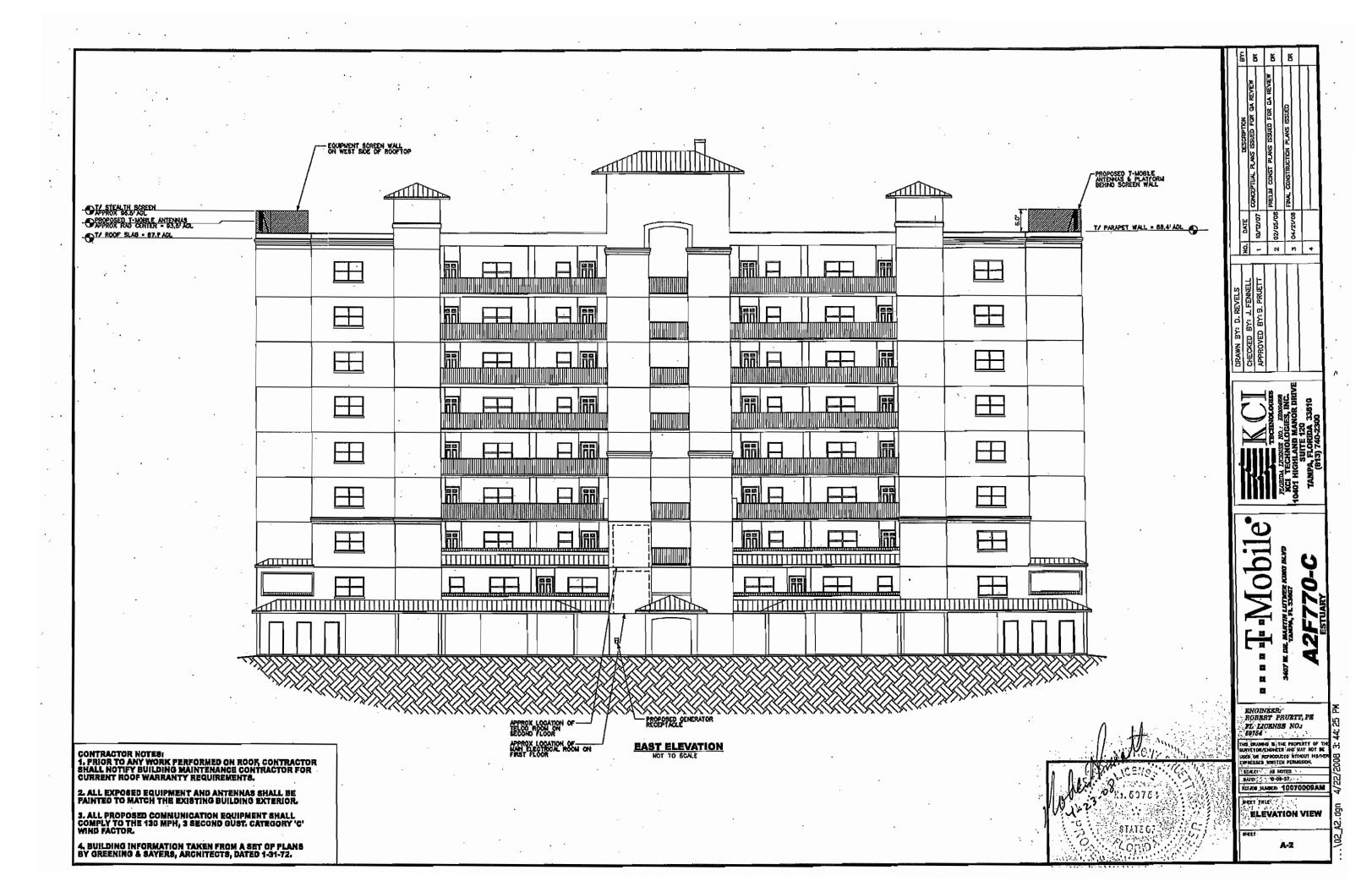
EXISTING ROOF CONDITION - PRIOR TO COMMENCING ANY WORK, THE
CONTRACTOR SHALL RECORD THE CONDITION OF THE ROOF BY
PHOTOGRAPHING ALL MEAS THAT WILL BE AFFECTED. AT HIS DISCRETION
THE CONTRACTOR MAY PHOTOGRAPH ANY OTHER STRUCTURES WITHIN
PROVISITY TO WORK AREAS, NO FROM TO RECORD THER CONDITION ALSO,
THESE PHOTOGRAPHS SHALL BE ASSEMBLED IN A NOTEBOOK
DENTET THO EACH PHOTOGRAPH WITH LOCATION AND OBJECT PICTURED.
A SIMMARY OF THE REPETOTION OF THE ROOF STATION IT'S CONDITION OF THE ROOF THE ROOF THE ROOF IS NO
SHALL ACCOMPANY THE PHOTOS AND SHALL BE PROVIDED TO THE CLEHT
PRIOR TO COMMENCING THE WORK. FITE CONDITION OF THE ROOF IS NO
A POOR STATE, THE CONTRACTOR SHALL MOTEY THE CLEHT BARGUATELY.
A LEETING WILL BE ARRANGED TO ENSURE WORK WILL PROCEED WITHOUT
DISRUTE OF ROOF RESTORATION RESPONSIBILITY.

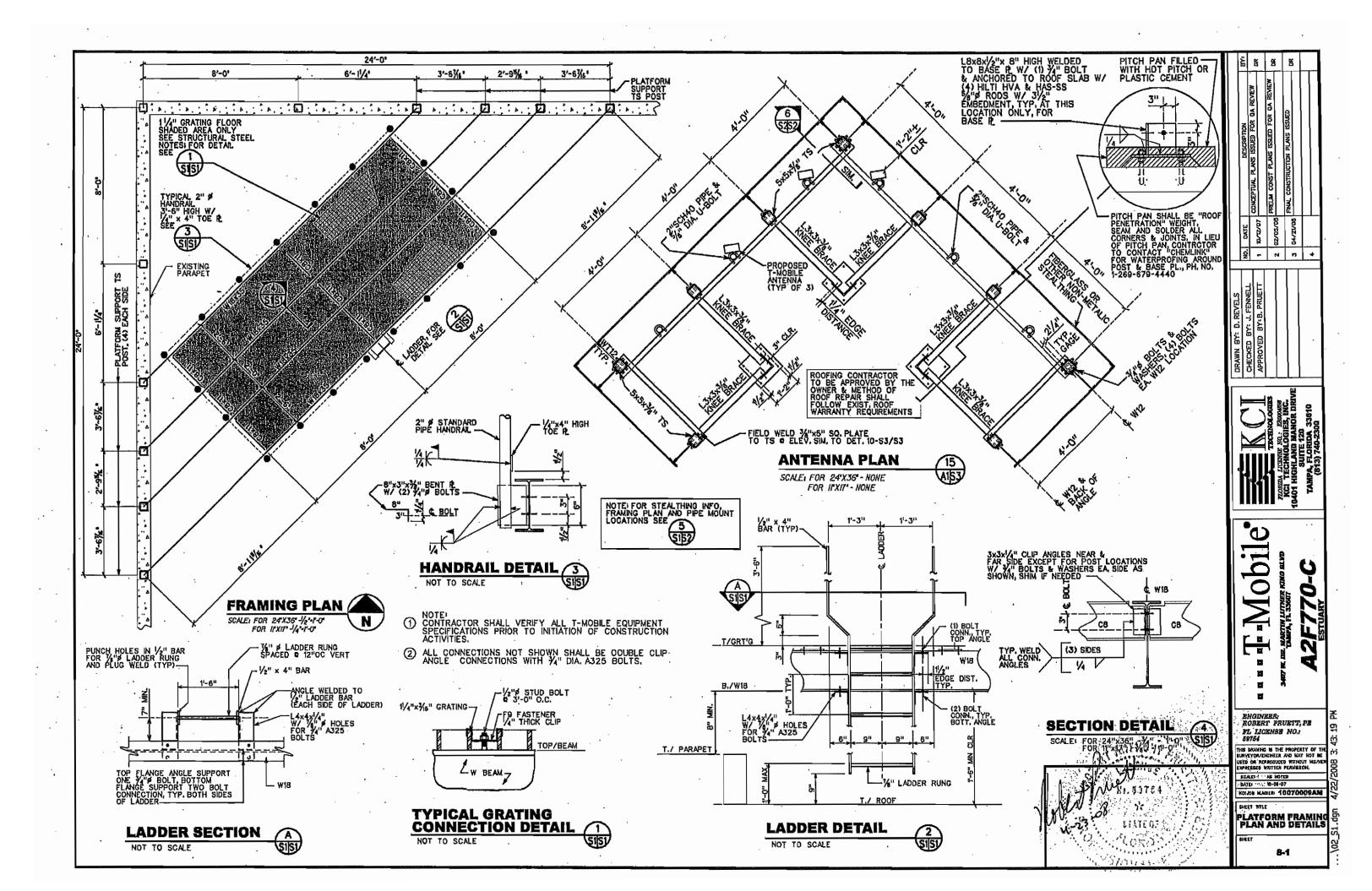
WATER PROTECTION - THE CONTRACTOR SHALL PROVIDE PROTECTION FROM WATER PENETRATION DURING THE NETALLATION OF ROOF PENETRATION SUPPORT SYSTEMS OR ANY OTHER ROOF PENETRATING PROCEDURE, METHODS OF PROTECTION SHALL COMPLY WITH ANY ROOF WARRANTY N EFFECT.

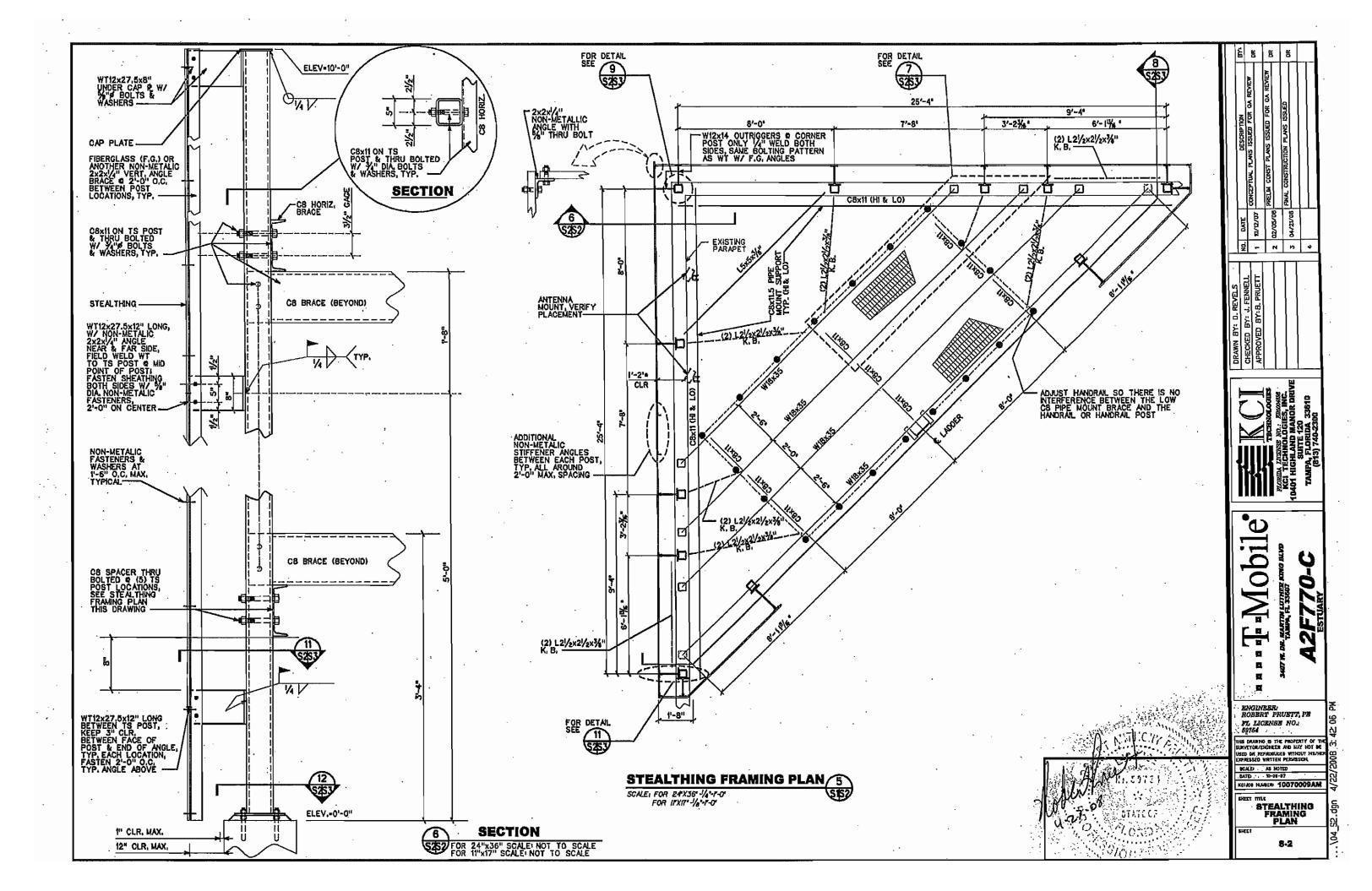
R. CONTRACTOR MUST VERIFY LOCATIONS OF EXISTING CONSTRUCTION, LOCATIONS OF STRUCTURAL MEMBERS SHOWN ON ROOF PLANS HAVE BEEN TAKEN FROM ORDERNA ARCHITECTURAL DISIGN DRAWHOS AND SHALL BE VERRED BY THE CONTRACTOR.

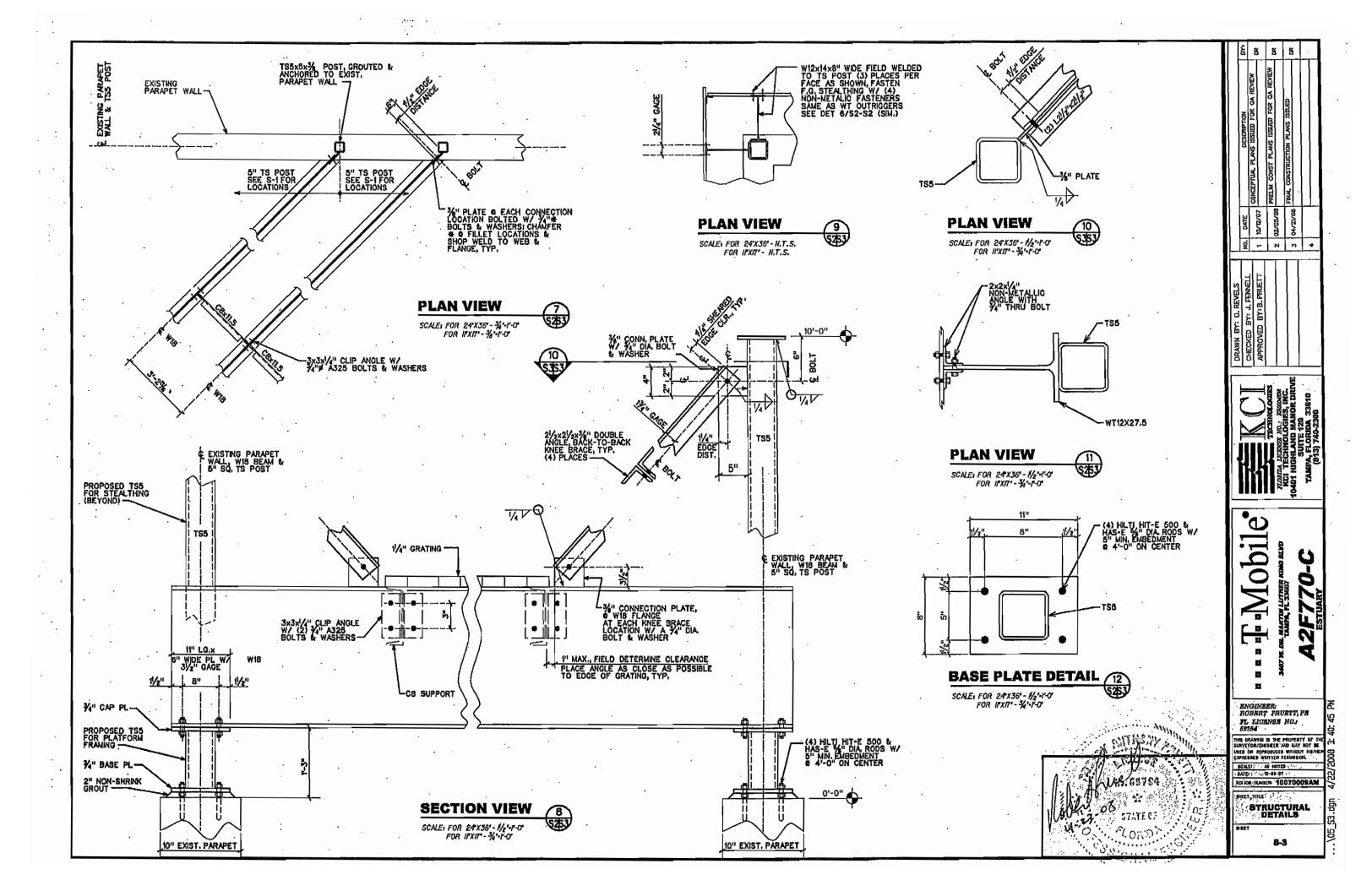
DRAWING SHEET NO











ELECTRICAL SPECIFICATIONS

GENERAL

- PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR ANO INCIDENTAL TO THE COMPLETE INSTALLATION AND OPERATION OF ALL ELECTRICAL WORK.
- CONFORM TO THE NATIONAL ELECTRICAL CODE, AND THE NATIONAL ELECTRICAL SAFETY CODE, THE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE RULES & BEGULATIONS OF LOCAL AND STATE AUTHORITIES HAVING JURISDICTION, AT THE TIME OF CONSTRUCTION.
- COORDINATE THE WORK OF ALL TRADES, ALL WORK SHALL BE DONE BY QUALIFIED PERSONNEL.
- ARRANGE CONDUIT, WIRING, EQUIPMENT, AND OTHER WORK CENERALLY AS SHOWN, PROVIDING PROPER CLEARANCES AND ACCESS, CAREFULLY EXAMINE ALL CONTRACT DRAWINGS AND FIT THE WORK IN EACH LOCATION WITHOUT SUBSTANTIAL ALTERATION, WERE DEPARTURES ARE PROPOSED BECAUSE OF FIELD CONDITIONS OR OTHER CAUSES, PREPARE AND SUBMIT DETAILED DRAWINGS FOR ACCEPTANCE. THE RIGHT IS RESERVED TO MAKE REASONABLE CHANGES IN LOCATION OF EDUIPMENT, CONDUIT, AND WIRING UP TO THE TIME OF ROUGH-IN OR FABRICATION.
- THE CONTRACT DRAWINGS ARE GENERALLY DIAGRAMMATIC AND ALL DFFSETS, BENOS, FITTINGS AND ACCESSORIES ARE NOT NECESSARILY SHOWN, DFFSETS, BENOWNED TO FIT THE WORK TO THE CONDITIONS
- THERE SHALL BE NO INTERRUPTION OF POWER TO EXISTING ELECTRICAL SYSTEMS WITHOUT PRIOR CONSENT OF THE OWNER, SUCH INTERRUPTIONS SHALL BE XEPT TO A MANAUM AND SHALL BE SCHEDULED WITH THE OWNER AT LEAST THREE BUSINESS OAYS IN ADVANCE OF THE OUTAGE, MY COST FOR WORK THAT MUST BE DONE ON AN OVERTIME BASIS SHALL BE INCLUDED IN THE PRICE.
- VISIT THE SITE AND INSPECT THE EXISTING CONDITIONS IN ORDER TO ENSURE PROPER EVALUATION OF WORKING CONDITIONS AND LOCATION OF EXISTING CONDITIONS,
- . MOUNTING AND SUPPORTING OF ALL EQUIPMENT PROVIDED UNDER THIS SECTION SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER IN THE FELO,
- A OBTAIN, PAY FOR, AND DELIVER ALL PERMITS, CERTIFICATES OF INSPECTION, ETC., REQUIRED BY THE AUTHORITIES HAVING JURISDICTION, DELIVER CERTIFICATES TO MOTOROLA PRIOR TO FINAL ACCEPTANCE OF THE WORK.

A. MATERIAL AND EQUIPMENT INSTALLED AS A PART OF THE PERMANENT INSTALLATION SHALL BE MEW UNLESS OTHERWISE ENLICATED OF SPECIFIED, AND SHALL BE LUSTED BY A MATIONALTY RECOGNIZED TESTING LABORATORY FOR INSTALLATION IN EACH PARTICULAR CASE, WHERE STANDARDS HAVE BEEN ESTABLISHED.

CUTTING AND PATCHING

PROVIDE ALL CUTTING AND PATCHING NECESSARY FOR THE INSTALLATION DF THE ELECTRICAL WORK, ANY DAMAGE DONE TO THE WORK ALREADY IN PLACE BY REASON OF THIS WORK SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE BY A QUALFIED MECHANIC EXPERIENCED IN SUCH WORK, PATCHING SHALL BE UNIFORM IN APPEARANCE AND SHALL MATCH THE SURROUNDING SURFACE, DO NOT CUT STRUCTURAL MEMBERS WITHOUT APPROVAL BY THE CONSTRUCTION MANAGER.

ELECTRICAL WORK UNDER OTHER DIVISIONS

A IN GENERAL POWER WRING FOR SYSTEMS ARE INCLUDED UNDER THIS SPECIFICATION CAREFULLY REVIEW THE CONTRACT DOCUMENTS AND COORDINATE THE ELECTRICAL WORK TO BE PERFORMED UNDER THE OTHER DIVISIONS.

- A GUARANTEE THE ELECTRICAL SYSTEM INSTALLED BY THE CONTRACTOR FREE FROM ALL MECHANICAL AND ELECTRICAL DEFECTS FOR THE PERIOD OF ONE YEAR BEGINNING FROM THE DAY OF FINAL ACCEPTANCE OF THE WORK OR BENEFICIAL OCCUPANCY BY THE OWNER, WHICHEVER OCCURS FIRST.
- B. UPON RECEIPT OF NOTICE FROM THE OWNER OF FAILURE OF ANY PART OF THE ELECTRICAL INSTALLATION DURING THE GUARANTEE PERIOD, NEW REPLACEMENT PARTS SHALL BE FURNISHED AND INSTALLED PROMPTLY AT NO COST TO THE OWNER

CONDUIT AND FITTINGS

- A. MINIMUM CONDUIT SIZE SHALL BE 1/2", (UNLESS OTHERWISE INDICATEO)
- B, SUPPORT ALL CONDUIT NOT EMBEDDED IN CONCRETE OR MASONRY SO THAT STRAM IS NOT TRANSMITTED TO OUTLET BOXES AND PULL BOXES, ETC. SUPPORTS TO BE SUFFICIENTLY RIGID TO PREVENT DISTORTION OF COMDUITS OUTBOOK WIRE PULLING.
- C. ALUMINUM CONDUIT IS PROHIBITEO,
- O. ALL CONDUITS SHALL BE ELECTRICAL METALLIC TUBING (EMT), PVC, OR RIGID GALVANIZED STEEL (RGS) AS NOTED ON CONSTRUCTION DRAWINGS,
- E, EMT CONDUIT FITTINGS SHALL BE FERROUS COMPRESSION TYPE.
- F. IN DAMP OR WET LOCATIONS, ON TRANSFORMERS, USE FLEXIBLE LIQUID-TIGHT METAL CONDUIT WITH APPROVED FITTINGS.

COORONATION

- A COORDINATE THE WORK OF POWER, GROUNDING AND TELCO AT EQUIPMENT WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. FINAL TERMINATIONS TO BE AT THE DIRECTION OF THE
- B. PRIOR TO BEGINNING WORK CONTRACTOR SHALL COORDINATE ALL POWER & TELCO WITH THE OWNER AS IT MAY APPLY TO THIS SITE, ALL WORK TO COMPLY WITH THE RULES AND REGULATIONS OF THE UTILITIES INVOLVED.

WIRES AND CABLES (60D VOLTS)

A. BUILDING WIRE, UNLESS OTHERWISE INDICATED SHALL BE 600 VOLTS, TYPE THWN INSULATION, CONDUCTORS SHALL BE SIZEO AND RUN AS INDICATED CONDUCTORS SHALL BE SOFT DRAWN COPPER OF NOT LESS THAN 98% CONDUCTIVITY.

DENTIFICATION OF EQUIPMENT

- A. MARK AND PERMANENTLY IDENTIFY ALL ELECTRICAL EQUIPMENT, IDENTIFICATION SHALL BE LAMINATED PLASTIC PLATES, BLACK WITH WHITE ENGRAYED LETTERS. USE 1/2" HIGH LETTERING, ATTACH PLATES WITH CHROINE PLATEO OR 318 STAINLESS STEEL SCREWS TO THE DEVICE, USE NOMENCLATURE ON DRAWINGS.
- B. ALL ELECTRICAL EQUIPMENT MUST BE MARKED AND IDENTIFIED WITH PROPER WARNING LABELS AND SIGNAGE PER NEC.

CONDUCTOR INSULATION

A ALL CONDUCTORS SHALL BE COLOR COODED AS REQUIRED BY NEC AND FURTHER DENTIFIED AND CODED AS SPECIFIED HEREINAFTER, COLOR CODING SHALL BE BY MEANS OF COLORED INSULATING MATERIAL, COLORED BRAID OR JACKET OVER THE INSULATION OR BY MEANS OF SUITABLE COLORED, PERMANENT, NON-AGING, INSULATING TAPE APPLIED TO CONDUCTORS AT EACH CABINET OR JUNCTION POINT, THE COLOR CODING SHALL BE ACCOMPLISHED AS THE CONDUCTORS ARE INSTALLED. THE FOLLOWING SYSTEMS OF COLOR CODING SHALL BE STRICTLY ADHERED TO:

AJ GROUND LEADS: GREEN
B) GROUNDED NEUTRAL LEADS: WHITE
C) 120/208 VOLT (120/240 VOLT) UNGROUNDED PHASE WIRES:
BLACK, RED, BLUE

THE COLOR CODE ASSIGNED TO EACH PHASE WIRE SHALL BE CONSISTENTLY FOLLOWED THROUGHOUT. CONDUIT_SUPPORTS

- A SUPPORT SURFACE RUNS OF CONDUIT USING ONE OR TWO HOLE PIPE STRAPS. STRAP SPACING 6 FOOT ON CENTERS, MAXIMUM, UNLESS NOTEO OTHERWISE.
- B. FASTEN STRAPS TO CONCRETE USING WISERTS OR EXPANSION BOLTS AND TO HOLLOW MASONRY USING TOGGLE BOLTS, WOODEN PLUGS ARE UNACCEPTABLE.

OUTLET, JUNCTION AND PULL BOXES

- A ALL BOXES, WHETHER OUTLET, JUNCTION, PULL, OR EQUIPMENT SHALL BE FURNISHED WITH APPROPRIATE COVERS.
- B. NO SECTIONALIZED BOXES SHALL BE USEO,
- C. OUTLET, JUNCTION AND PULL BOXES SHALL BE SHEET STEEL, WHERE REQUIRED TO FACILITATE PULLING OF WIRES OR CABLES, SUCH BOXES SHALL BE RIGIDLY MOUNTED AND INSTALLED IN ACCESSIBLE LOCATIONS,

SAFETY DISCONNECT SWITCH

- A PROVIDE SAFETY DISCONNECT SWITCHES AS SHOWN ON THE DRAWINGS AND WHERE REQUIRED BY THE NATIONAL ELECTRICAL CODE. SWITCHES SHALL BE HORSEPOWER-RATED WHERE APPLICABLE, AND SHALL BE THE SIZES REQUIRED, SERVICE ENTRANCE SWITCH SHALL BE SO RATED.
- 8, SWITCHES SHALL BE HEAVY DUTY TYPE FUSED OR UNFUSED, AS INDICATED; SIDE HANDLE OPERATED, NEMA 1 FOR GENERAL INTERIOR WORK AND NEMA 3R FOR EXTERIOR, OAMP, DR WET LOCATIONS. SWITCHES SHALL BE EQUIPPED WITH A COVER INTERLOCK TO PREVENT OPERATION WITH COVER OPEN,
- C. SWITCHES SHALL BE VISIBLE BLADE, EXTERNALLY OPERATEO, WITH ALL CURRENT CARRYIND PARTS SLEVER OR TIM-PLATEO. ALL SWITCHES SHALL HAVE PROVISIONS FOR NOT LESS THAN THAN TWO EXTERNAL PADLOCK.

GROUNDING

- A PROVIDE GROUND FOR ALL RACEWAYS DEVICES, AND UTILIZATION EQUIPMENT PERMANENTLY AND EFFECTIVELY IN ACCORDANCE WITH REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND AS HEREINAFTER SPECIFICA. ALL GROUNDED NEUTRAL CONDUCTORS SHALL BE CONTINUOUSLY IDENTIFIED. ALL GROUNDING AND BOYOUNG CONNECTIONS SHALL BE SOLDERLESS.
- B. PROVIDE HISULATED GROUNDING CONDUCTORS FOR FEEDER AND BRANCH CIRCUIT WIRING AS CALLED FOR ON THE PLANS, PROVIDE GROUNDING BLOCKS, TERMINALS, ETC., FOR CONNECTION OF GROUND WIRE IN ALL DISTRIBUTION EQUIPMENT, OUTLETS, JUNCTION BOXES, AND UTILIZATION EQUIPMENT. TERMINATE WITH LUGS OR COMPRESSION TERMINALS. CONDUCTORS LOOPED UNDER BOLTS OR SCREWS WILL NOT BE ACCEPTABLE.
- C. GROUND RODS WHEN NEEDED SHALL BE STEEL, COPPER CLAD 1/2" DAMETER BY TEN FEET LONG, GROUND ROD SHELDS TO BE PROVIDED FOR DRIVING RODS,
- D. THE MAXIMUM RESISTANCE OF THE COMPLETED GROUNDING SYSTEM SHALL NOT EXCEED 5 OHMS ON ANY PART OF THE SYSTEM, IF DUE TO SOL CONDITIONS OR OTHER PARAMETERS THIS MAXIMUM VALUE IS EXCEEDED, CONTACT THE ENGINEER FOR ADDITIONAL INSTRUCTIONS,
- E, GROUND BAR PLATES ARE TO BE MANUFACTURED EXACTLY AS DETAILED AND DIMENSIONED. DIMENSIONS TO BE ACCURATE TO 1/32%.
- F. ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL
- G. ALL BARE COPPER SURFACES SHALL BE COATED PRIOR TO LUGGING, JOINT COMPOUND SHALL BE KOPR-SHIELD BY THOMAS & BETTS,
- H. CONNECTION OF CONDUCTORS BELOW GRADE TO GROUND RODS, GROUND RINGS, GROUND WELL, ETC., SHALL BE EXOTHERMIC AND ABOVE GRADE TO STRUCTURES, EQUIPMENT ETC., SHALL BE SPLIT BOLT OR MACHANICALLY BOLTED TYPE.

SUPPORTS, HANGERS AND FOUNDATIONS

A PROVIDE ALL SUPPORTS, HANGERS, BRACES, ATTACHMENTS, AND FOUNDATIONS REQUIRED FOR THE WORK, SUPPORT AND SET THE WORK IN A THOROUGHLY SUBSTANTIAL AND WORKMANLIKE MANNER WITHOUT PLACING STRAINS ON THE MATERIALS, EQUIPMENT, OR THE BUILDING STRUCTURE.

200A 120/240V MANUA TRANSFER SYNTCH IN NEWA 3R ENCLOSURE

3#3/0 & 1#8 GRD. IN 2" PVC CONDUIT

PROPOSED PURCELL

B. SUPPORTS, HANCERS, BRACES AND ATTACHMENTS SHALL BE STANDARD MANUFACTURED ITEMS OR FABRICATED STRUCTURAL STEEL SHAPES.

- A CONTRACTOR SHALL PREPARE AND SUBART TO THE CONSTRUCTION MANAGER
 "AS-BUILT" DRAWINGS FOR CHANGES OR DEVIATIONS FROM CONTRACT DRAWINGS
 TO THE FOLLOWING:
 - 1. SOURCE, ORIGIN, AND/OR ROUTING OF MAIN FEEDERS
 - LOCATION OF MAJOR PIECES OF DISTRIBUTION EDUIPMENT SUCH AS KILOWATTHOUR METER AND MAIN FEEDER OVERCURRENT DEVICES,

UTILITY CONTACT FOR NEW SERVICE

TELCO:
NOTIFY TELCO COMPANY PRIOR TO OBTAINING ELECTRICAL PERMIT TO COORDINATE TELCO CONNECTION, CONTACT: BELLSOUTH

ORY TYPE TRANSFORMERS

- A FACTORY ASSEMBLED AND TESTED DRY TYPE TRANSFORMER WITH CAPACITIES AS INDICATED ON THE CONSTRUCTION DRAWINGS SHALL BE PROVIDED. TRANSFORMER TO BE U.L. LISTED AND MEET STANDARD 20.
- B. CORES TO BE CONSTRUCTED OF ELECTRICAL GRADE LAMINATED STEEL CORE VOLUME SHALL ALLOW OPERATION AT 10% ABOVE RATED PRIMARY VOLTAGE WITHOUT EXCEEDING RATED TEMPERATURE RISE, COILS TO BE ALUMINUM OR COPPER AND BE ISOLATED FROM
- C. TRANSFORMER TO BE RATEO FOR 220°C INSULATION WITH A 150°C RISE ABOVE A 40°C AMBIENT AT FULL LOAD,
- O. PROVIDE OUTDOOR ENCLOSURE, VENTILATED.
- E. SOUND LEVEL TO MEET NEMA/ANSISTANDARD C89.22; MAXIMUM OF 45db,
- F. PRIMARY VOLTAGE TAPS: SIX 2.5% FULL CAPACITY TAPS, 2 ABOVE AND 4 BELOW RATED VOLTAGE.
- G. PROVIDE UNIT BY ACME ELECTRIC CORPORATION.
- H. PRIMARY TRANSFORMER SHALL BE 48DV, SINGLE PHASE AND SECONDARY SHALL BE 12D/24O SINGLE PHASE 60 HZ.

| ELECTRICAL LEGEND | | | | | |
|-------------------|---|--|--|--|--|
| (1) | SEE ORAWING NOTE OF SAME NUMBER | | | | |
| 凸, 🗓 | KILOWATTHOUR METER | | | | |
| 6 | CONDUIT OR CABLE-UP, DOWN | | | | |
| / | #2 AWG BARE, SOLID, TANED COPPER CONDUCTOR - OR #2 AWG INSULATED AS INDICATED | | | | |
| | POWER, TELCO OR GROUND CONDUIT | | | | |
| | CONDUIT TERMINATED OR TRANSITION AS INDICATED IN PLAN | | | | |
| ⊷Įlı | STANDARD GROUND ROD -%"x10'-0" | | | | |
| 마마 | FUSED SERVICE DISCONNECT SWITCH, NON-FUSED | | | | |
| • | EXOTHERMIC WELD OR MECHANICAL GROUND BOND | | | | |
| -⊛- | INSPECTION SLEEVE | | | | |
| - - - | GROUND ROD EXOTHERMICALLY WELDED TO BURIED GROUND RING | | | | |
| ⊠.₩ | DRY TYPE TRANSFORMER | | | | |

TD EXISTING 600A SERVICE PANEL, 120/2084, 16, 3W

PROPOSED ELECTRICAL EQUIPMENT WITHIN ELECTRICAL ROOM ON GROUND FLOOR

PROPOSEO ELECTRICAL EQUIPMENT TO BE LOCATED IN PARKING GARAGE

120/208 VOLT, 16, 3W 200 AMP.

-4 WIRE 200
AUP 120/240V
REGEPTACLE FOR
PORTABLE GENERATOR
N WEATHERPROOF
ENCLOSURE,

GENERATOR RECEPTACLE GROUND BOND #2 AWG TO SERVICE GROUND ROD

BTS# CABINET

ONE-LINE DIAGRAM

WARDFACTURER NSTALLEO

-2-1" CONDUITS TO CABINETS WITH 348 & 1#10 AWG MIN. PER MANUFACTURERS SPECIFICATIONS

BTS* CABINET

-120/208V, 200A SUB METER

ABBREVIATIONS & SYMBOLS

A - AMPERE
AFF - ABOVE FINISHED FLOOR
AFG - ABOVE FINISHED GRADE
AC - AMPERES INTERRUPTING

CKT AGB OWG CAT GRO KVA MGB M.H.

- ASUVE FRISHEU CHADE
- AMPERES INTERRUPTING
CURRENT
- AMERICAN WIRE GAUGE
BREAKER
- CONTUIT
- ANTENNA CROUND BAR
- DRAWING
- CATALOG
- GROUND
- KLOVOLT-AMPERES
- MAIN GROUND BAR
- MOUNTING BEIGHT
- MAIN LUG ONLY
- MAIN CROUNT BREAKER
- NATIONAL ELECTRICAL CODE
- NATIONAL ELECTRICAL
- MANUFACTURERS ASSOC,
- NATIONAL ELECTRICAL
- MANUFACTURERS ASSOCIATION
- CONTENSED SAFETY SWITCH
(DISCONNECT)
- NUMBER
- OVER CURRENT PROTECTION
- POLE
- TYPICAL
- VOLTS
- WEATHERPROOF
- PHASE
- SINGLE POLE SINGLE THROW NETA .

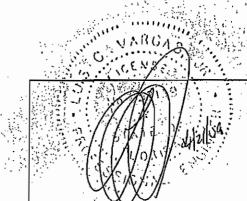
NFSS -

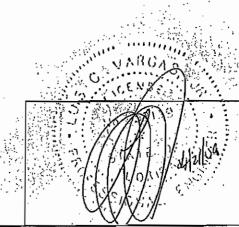
WEATHERSTROOP
 PHASE
 SINGLE POLE, SINGLE THROW
 RIGID GALVANZED STEEL
 POLYMYL CHLORIDE
 ELECTRICAL METALLIC TURNG

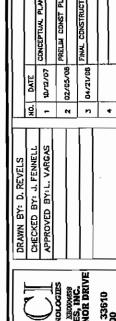


DENAND - 167 ANPS (27.8%) (NEASURED OH-SITE) -MORE DEMAND - U.1 KVA CONNECTED 0 120/208 VOLT, IS U.KVA/208 - 51 AMPS 65 KAC

OTAL DEMAND MATHER CALLOTHERT FOR PEACH + 83 - 348.9 AMPS (57.8%)







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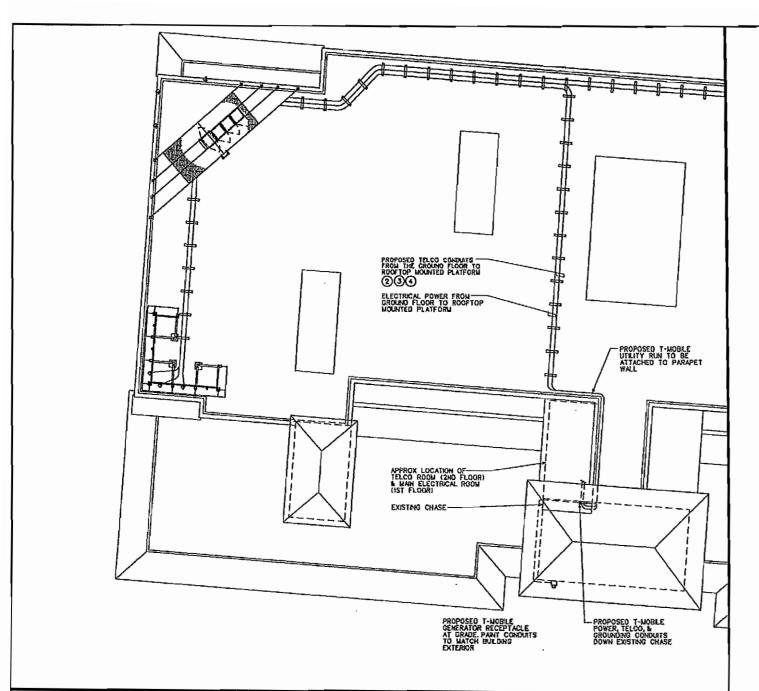
ELECTRICAL ENGINEER. LUIB G. VARGAS, JR. PE FL LICENSE NO.

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SCALE: AS HOTED КС КО НАВЕР 10070009AM

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ELECTRICAL NOTES





DRAWING NOTES:

- 1 THE EXISTING TELCO BOARDI SOURCE OF TELCO SERVICE TO THE EQUIPMENT ON THE ROOF IS LOCATED IN THE TELCO ROOM ON THE GROUND FLOOR.
- (2) WATERPROOF SEAL ALL WALL PUNCTURES,
- 3 EXACT ROUTING OF TELCO AND POWER COMOUNT TO BE DETERMINED IN THE FIELD.
- (5) COORDINATE ALL REQUIREMENTS WITH LOCAL UTILITIES PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES.
- AC/TELCO CABINET NOTE (PER MANUFACTURER))
 THE STANDARD WOA BREAKER PROVIDED IS RATED AT WK AMC. TO SATISFY OTHER
 AMC RATINGS, THE FOLLOWING SHOULD BE DONE ACCORDING TO SQUARE O'S SERES
 RATINGS:
 1. 22K AMC REPLACE THE WOA MAIN BREAKER WITH SQUARE O P/N: QOZNOVH (RATED
 AT 22K AMC)
- 2. 42K AK: REPLACE THE 100A MAIN BREAKER WITH SQUARE D P/H: 00H2100 (RATED AT 42K AK)
- 3.) OR EQUAL TO 65K ACCIMSTALL A METERBASE OR FUSBLE SAFETY SWITCH WITH A MO-200A 300V RATED CLASS T FUSE UPLNE FROM THE RAC774831 POWER ACCESS CABNET AND INSTALL APPROPRIATELY RATEO T TYPE FUSES (E.G. MOK OR 200K AC). BASED ON SQUARE D'S SERRES RATING FOR THE LOAD CENTER AND ITS GO TYPE BREAKERS, THAT T FUSE WILL GIVE THE SITE ITS NEEDED AC RATING.

CONTRACTOR NOTES:

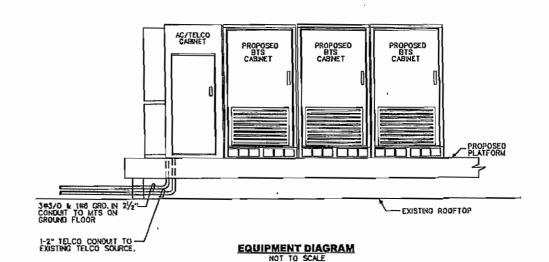
1. PRIOR TO ANY WORK PERFORMED ON ROOF, CONTRACTOR SHALL NOTIFY BUILDING MAINTENANCE CONTRACTOR FOR CURRENT ROOF WARRANTY REQUIREMENTS.

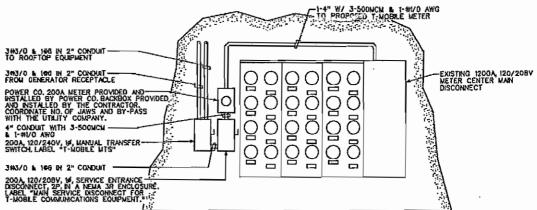
2. ALL EXPOSED EQUIPMENT AND ANTENNAS SHALL BE PAINTED TO MATCH THE EXISTING BUILDING EXTERIOR.

3. ALL PROPOSED COMMUNICATION EQUIPMENT SHALL COMPLY TO THE 130 MPH, 3 SECOND GUST. CATEGORY 'C'

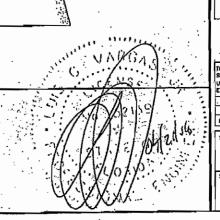
4. BUILDING INFORMATION TAKEN FROM A SET OF PLANS BY GREENING & SAYERS, ARCHITECTS, DATED 1-31-72.

FOR 24"x36" DRAWINGS GRAPHIC SCALE1 1/8" = 1'-0" FOR 11"x17" DRAWINGS, GRAPHIC SCALE: 1/16" = 1"-0"





SERVICE RISER DIAGRAM



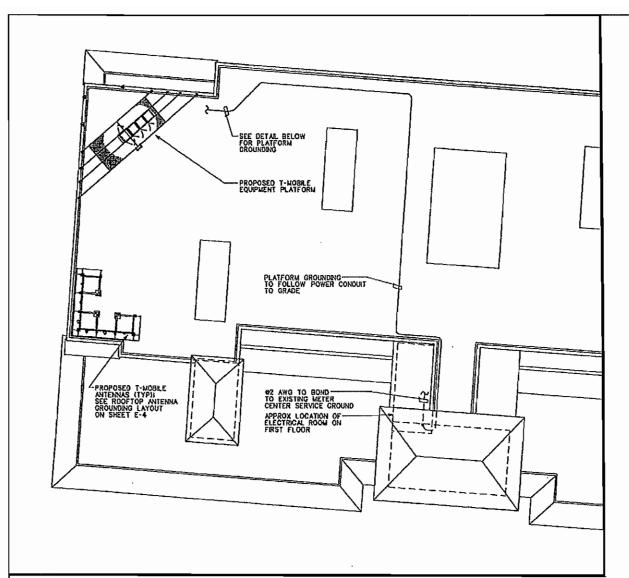
Mobil 42F770-C

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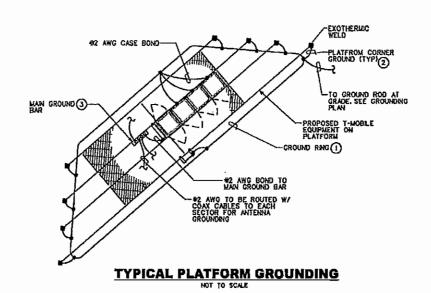
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SCALE: AS HOTES кого ньеек 10070009АМ

POWER AND TELCO PLAN

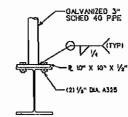






GROUNDING NOTES:

- (2) PLATFORM CORNER GROUNDI EXOTHERING WELD AT PLATFORM STEEL WITH 42 AWG INSTLATED COPPER CONDUCTOR EXTEND DOWN TO GROUND RENG AND CONSECT TO GROUND RENG WITH SPULL BOLT CONNECTOR OF EXOTHERING WELD OF PARALLE CLAMP, CONDUCTOR SHALL BEND, WITH ANTIGRATED FLOW, TOWARD
- (3) NAM GROUND BAR; BOLTED TO THE STEEL PLATFORM JUST BELOW THE TOP FLANCE, USE STANLESS STEEL HARDWARE FOR THE STEEL PLATFORM, GROUND BAR SHALL BE ISOLATED FROM THE STEEL WITH NON-METALLIC INSULATORS, SEE OBTALS ON SPEET E-4.



CONNECTION DETAIL NOT TO SCALE

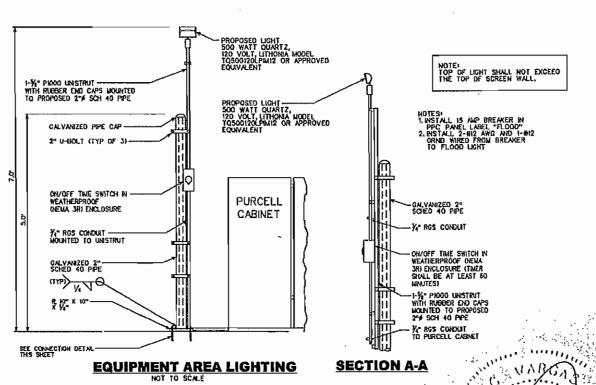
FOR 24"x36" DRAWINGS GRAPHIC SCALE: INCH . 10 FEET FOR 11"x17" DRAWINGS GRAPHIC SCALE: 1 INCH = 20 FEET

CONTRACTOR NOTES: 1. PRIDR TO ANY WORK PERFORMED ON ROOF, CONTRACTOR 8HALL NOTIFY BUILDING MAINTENANCE CONTRACTOR FOR CURRENT ROOF WARRANTY REQUIREMENTS.

2. ALL EXPOSED EQUIPMENT AND ANTENNAS SHALL BE PAINTED TO MATCH THE EXISTING BUILDING EXTERIOR.

3. ALL PROPOSEO COMMUNICATION EQUIPMENT SHALL COMPLY TO THE 130 MPH, 3 SECOND GUST. CATEGORY 'C' WIND FACTOR.

4. Building information taken from a set of Plans by Greening & Sayers, architects, dated 1-31-72.



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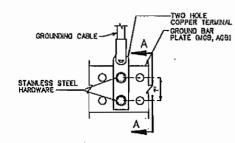
70-C

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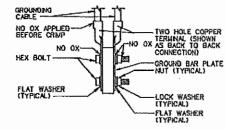
DATE: 10-01-07

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GROUNDING PLAN

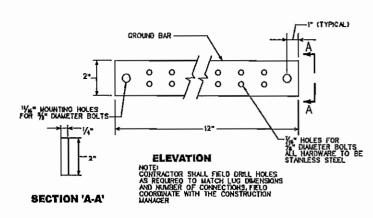


ELEVATION

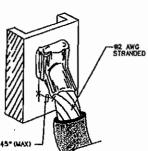


GROUND BAR CONNECTION HOT TO SCALE

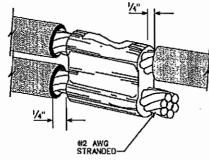
NOTE:
'OOUBLING UP'OR 'STACKING'OF CONNECTIONS IS NOT PERMITTED.
OXIDE - RHABITING JOINT COMPOUND TO BE USED ON ALL CONNECTIONS.
BACK TO BACK CONNECTIONS SHALL BE USED ONLY WHEN NUMBER
OF CONNECTIONS TO FRONT OF BAR EXCEEDS MUMBER OF AVAILABLE SPACES.



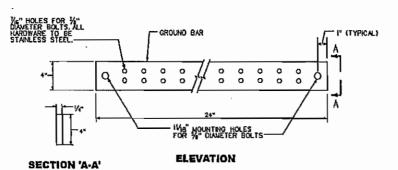
ANTENNA GROUND BAR





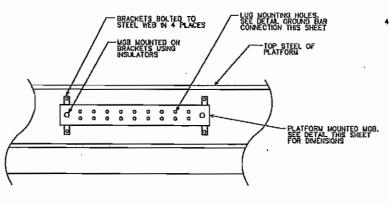


DETAIL- EXOTHERMIC WELD
PARALLEL CABLES
NOT TO SCALE



MAIN GROUND BAR

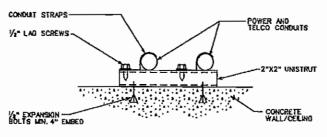
TOTAL TOTAL FIELD DRILL HOLES AS REQUIRED TO MATCH LUO DIMENSIONS AND MUNICER OF CONNECTIONS, FIELD COORDINATE WITH THE CONSTRUCTION COORDINATOR.



DETAIL - MGB MOUNTING NOT TO SCALE

ANTENNA GROUNDING NOTES

- (3) 62 AWG INSULATED COPPER CONDUCTOR/EXTEND FROM POST TO THE MITERIAL GROUND BAR, CONNECTION TO THE GROUND BAR SHALL BE WITH A TWO HOLE CRIMP TYPE LUQ CONNECTION.
- (4) ANTENNA GROUND BAR, GROUND BAR TO BE ISOLATED FROM MOUNTING BRACKETS USANO NON-WETALLIC INSULATORS, SEE DETAIL, ON SHEET E-4.



CEILING/WALL MOUNT CONDUIT TRAY DETAIL

CORE DRILL/FIRE STOP NOTES:

1. FLOOR OR WALL ASSEMBLY-

SEC CONCRETE BLOCKS (CAZT) AND PRECAST CONCRETE UNITSCFTY) CATEGORIES IN THE FIRE RESISTANCE DIRECTORY FOR NAMES OF MANUFACTURERS.

MISTEEL SLEEVE-

E BLOCKS-NOM, 30 IN. DIAM, (OR SMALLER) SCHEDULE IO (OR HEAVIER) STEEL PIPE,

- NOM, 30 IN. DIAM, (OR SMALLER) CAST OR OUCTLE IRON PIPE,

- NOM, 8 IN. OIAM, (OR SMALLER) RED STEEL CONDUIT,

- NOM, 4 IN. DIAM, (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING.

TUBING-NOM, 6 IN. DIAM, (OR SMALLER) TYPE L (OR HEAVIER) COPPER TUBE,

PIPE-NOM, 6 IN. DIAM, (OR SMALLER) REGULAR (OR HEAVIER) COPPER PIPE.

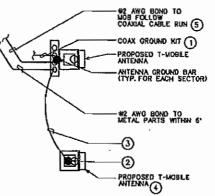
POLYETHYLENE BACKER ROD OR NOW, I IN. THICKNESS OF TIGHTLY-PACKED MINERAL WOOL BATT OR GLASS FIBER INSULATION FROM LY PACKED INTO OPENING AS A PERMANENT FORM, PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL MATERIAL (ITEM 4).

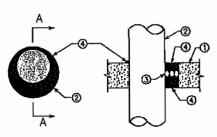
4. FILL, VOID OR CAVITY MATERIAL! - CAULK
APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH TOP SURFACE OF FLOOR, IN WALL ASSEMBLIES, REQUIRED CAULK THICKNESS TO BE
INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL, FLUSH WITH WALL SURFACE, THE HOURLY F RATINGS AND THE MIN, REQUIRED
CAULK THICKNESSES ARE DEPENDENT UPON A NUMBER OF PARAMETERS, AS SHOWN IN THE FOLLOWING TABLE:

| MIN. FLOOR OR WALL | NDM. PIPE TUBE OR CONDUIT | MAX. ANNULAR | | F |
|-----------------------|------------------------------|--------------|-----------------------|--------------------|
| THICK, (IN) | DIAM, (IN) | SPACE, (IN) | THCK,, ((N) | RATING, (HR) |
| 21/2 | 1/2-12 | 17/4 | 1/2 | 2 |
| 21/2 | 1/2-12 | 31/4 | ī | 2 |
| 41/2 | 1/2-6 | 11/4 | '/4. (A) | 2 |
| 41/2 | 1/2-12 | 1/4 | 1/2 | 3 |
| 4//2 | 1/2-20 | 2 | 1 | 3 |
| 4//2 | 1/2-20 | 2. | 1 | 3 |
| 4//2 | 1/2-12 | 31/4 | 1 | 3 |
| 4/2 | ⅓3 +30 | 2 | 2 | 3 |
| 5 ½ | √2 -6 | 11% | (B) | 4 |
| 241 1201 A DI | THROUSERS OF MINERAL | I MAGE CATE | BUCK ATION OF DIRECTO | BY INSTRUME PRINCE |

(A) MIN. 2 IN THICKNESS OF MINERAL WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE,

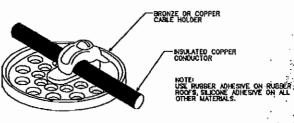
(B) MIN. I IN. THICKNESS OF MAREAL WOOL BATT INSULATION REQUIRED IN ANNULAR SPACE ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY, MIN. I IN. THICKNESS OF CAULK TO BE INSTALLED FLUSH WITH EACH SURFACE OF FLOOR OR WALL ASSEMBLY,



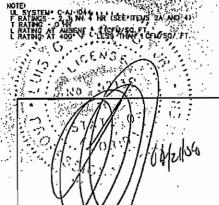


SECTION A-A

DETAIL - CORE DRILL / FIRE STOP



DETAIL - CABLE HOLD DOWN ON ROOF NOT TO SCALE



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ELECTRICAL DETAILS