

ADDRESS:

5555 REGENCY LAKES BLVO POMPANO BEACH, FL 33073

FIXED ASSET #:

10070226

SITE TYPE:

Area

{27}

Stormwater

Treatment Areas

TENANT IMPROVEMENT - MONOPOLE

PROJECT DESCRIPTION: INSTALL NEW LTE EQUIPMENT, INCLUDING NEW FIBER CABLES, SURGE SUPPRESSOR, REMOTE RADIO HEADS AND ANTENNAS ON EXISTING TOWER.

Farm Wildlife

Management Area

Fact Chast

Buffer

Everglades Wildlife

Management

Area - Water

Conservation Area 2B

PROPERTY INFORMATION

SITE COORDINATES: 26" 18" 35.98" N 80° 11' 57.98" W CITY OF COCONUT CREEK JURISDICTION

COLINTY: RROWARD 484206160012 PID #:

AT&T MOBILITY CORPORATION APPLICANT / LESSEE: 5201 CONGRESS AVENUE ADDRESS: BOCA RATON, FL 33487 CONTACT:

PHONE:

Highland

Oakland Lauderdale By The Sea

QJ.

Kings Point

Boca Raton

Pompano

Park

Fort

Lauderdale

Dania

Beach

Hollywood

Hallandale

(826)

West Little

River

Brownsville

Ē

Miami

North Miami

Aventura

Mam

Beach

North Miam

Beach

[1]

Beach

[441]

Mission Bay

Coral

Tamarac

City of

Sunnse

(862)

w

(93)

Hialear

Gardens

Doral

Olympia

Miramar

Country

Club

Opa-Locka

Mism

Fountainbleau

Hialeah

Weston

概集

Tamiami

Country

Estates

Plantation

Cooper City

Pembroke

Pines

Gardens

Davie

Sandalf

Cove

Springs Coconut

Boca Raton

Parkind Beach

Creek

Norti

Lauderdale

PROPERTY OWNER:

LEGAL DESCRIPTION:

JUAN BRUZON 954.778.3632

CITY OF COCONUT CREEK REGENCY LAKES AT COCONUT CREEK

157-23 B PART OF PARCEL A DESC'D AS.COMM AT SW COR TR A OF SAWGRASS PK OF COMMERCE COMM SEC B.E. 214.18, S 30,E 426.56 TO POB,E 144.31,N 285.03,E 254.66,S 99.99,E 438.79 TO P/I,SLY &

WLY 576.15, WLY & S 147.42, SLY 5.58,WLY 213.60,WLY 200,NLY 330.41 TO PARK SITE-REGENCY LAKES AT COCONUT CREEK

PROJECT TEAM

ENGINEERING FIRM:

CONTACT:

PHONE:

NSORO MASTEC, LLC 6000 BROKEN SOUND PARKWAY NW BOCA RATON, FL 33487

PHONE: 561.988.5830

> AW SOLUTIONS, INC. 300 CROWN OAK CENTRE DR. LONGWOOD, FL 32750 ROBERT REFORM 407.260.0231 EXT. 113

26983 FLORIDA COA#:

DESIGN CRITERIA:

1. FLORIDA BUILDING CODE 2007 AND 2009 SUPPLEMENTS AND ASCE 7-05. WIND LOAD PER ASCE 7-05.

BASIC WIND SPEED: 140 MPH, 3 SEC. GUST. WIND IMPORTANCE FACTOR: 1.0 UNMANNED TELECOMMUNICATIONS FACILITY BUILDING CATEGORY

WIND FXPOSURF: C. WIND PRESSURE COMPONENT & CLADDING: 68 PSF (TOTAL LATERAL).

Hospital-Coconut 4

Atreme

Bank of

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7

[441]

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0

The UPS

Advance

Johnson Rd

Publix

2. DEAD LOAD:

A. EQUIPMENT WEIGHT PER MANUFACTURER DATA. 3. SEISMIC LOAD DOES NOT GOVERN THIS DESIGN.

Trademark of

Holmberg Rd

A Champion

INDEX

DRAWING

SHEET	SHEET DESCRIPTION	REV	DATE
T1	TITLE SHEET	0	10/24/11
C1	SITE PLAN	0	10/24/11
C2	TOWER ELEVATION & ANTENNA ORIENTATIONS	0	10/24/11
C3	RF DATA	0	10/24/11
E1	RISER DIAGRAM	0	10/24/11
E2	RISER DIAGRAM & DETAILS	0	10/24/11
SP1	SPECIFICATIONS	0	10/24/11
SP2	SPECIFICATIONS	0	10/24/11

APPLICABLE CODES:

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING CODES, STANDARDS AND SUPPLEMENTS:

FBC - FLORIDA BUILDING CODE 2007 AND 2009 SUPPLEMENTS

AISC - AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS IFFF — INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS

NEC - NATIONAL ELECTRICAL CODE

NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION

UL - UNDERWRITERS LABORATORIES

NSPC - NATIONAL STANDARD PLUMBING CODE IMC - INTERNATIONAL MECHANICAL CODE

NFPA - NATIONAL FIRE PROTECTION ASSOCIATION

OSHA - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

ANSI/TIA - TELECOMMUNICATIONS INDUSTRY ASSOCIATION - 222-G STANDARD

ALL GOVERNING STATE, COUNTY AND LOCAL CODES AND ORDINANCES

THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE REQUIREMENTS.

Safe & Secure

Automated Self

Johnson Rd

at&t

AT&T MOBILITY CORPORATION 5201 CONGRESS AVENUE 1ST FLOOR - AT&T OFFICE BOCA RATON, FL 33487



It's just good business.

NSORO MASTEC, LLC 6000 BROKEN SOUND PARKWAY NW BOCA RATON, FL 33487 PHONE: (561) 988-5830

300 CROWN OAK CENTRE DRIVE LONGWOOD, FL 32750 FAX: 407.260.0749 FL COA#: 26983

CHECKED BY: JD

0 10/24/11 ISSUED FOR CONSTRUCTION C 10/21/11 ISSUED FOR REVIEW B 10/06/11 ISSUED FOR REVIEW A 04/08/11 ISSUED FOR REVIEW REV DATE DESCRIPTION A ...

SH

DRAWN BY:

NAMUEL POU PER HENDE

IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER TO ALTER THE DOCUMENT, UNLESS EXPLICITLY ARREED TO BY AW SOLUTIONS IN WASTING, AW SOLUTIONS, INC. DISCLAUS ALL LUBLITY ASSOCIATED WITH THE RELUES, LITERATION OR MODIFICATION OF THE CONTENTS HEREIN.

SITE#: SITE NAME: FL71

5555 REGENCY LAKES BLVD POMPANO BEACH, FL 33073

ADMINISTRATIVE APPROVAL 01-17-12

Auto Parts School Barber Shop TA AI&T Store \bigcirc Cartuccia Coral Creek Shopping Center [441] 11 McDonald's NIN 63rd PI .5310 £1 441 4 Hair Pre-School # Flamingo CN Center 0 [441] Regency Lakes Regency Lakes Blvd (7) NW 62nd Manor cen Way Lake Tem Ln Humcane Gra and Wings Mana Ristoranti italiano and T NW 62nd St Silks By Suzi SPECIFIC LOCATION MAP

Elementary &

DRIVING DIRECTIONS

ades Wildlife

ration Area 3A

Everglades Wildlife

Management

Area-Water

Conservation Area 3B

[41]

TURN LEFT ONTO UNKNOW ROAD, DESTINATION WILL BE ON THE LEFT.

nagement

a - Water

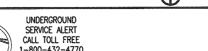
GENERAL VICINITY MAP

Coral

FROM BOCA RATON, TAKE I-95 SOUTH, TAKE EXIT 41 FOR SOUTHWEST 10TH STREET/FL-869 TOWARD SAWGRASS EXPRESSWAY, TURN RIGHT AT FL-869 SOUTH/SOUTHWEST 10TH STREET, CONTINUE TO FOLLOW FL-869 SOUTH, PARTIAL TOLL ROAD, TAKE EXIT 18A TO MERGE ONTO FL-7 NORTH/US-441 NORTH, PARTIAL TOLL ROAD, TURN RIGHT AT REGENCY LAKES BOULEVARD,



SERVICE ALERT CALL TOLL FREE 1-800-432-4770 48 HOURS BEFORE YOU DIG



300 CROWN OAK CENTRE DR'
LONGWOOD, FI
TEL: //

5225





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300 CROWN OAK CENTRE DRIVE LONGWOOD, FL 32750 TEL: 407.260.0231 FAX: 407.260.0749 COA#: 26983 FL COA#:

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REV DATE QUESCRIPTION

EMMANUEL POUR FL. P.E. #54073

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FL71 SITE#: SITE NAME: FL71

ADDRESS:

5555 REGENCY LAKES BLVD POMPANO BEACH, FL 33073

10070226

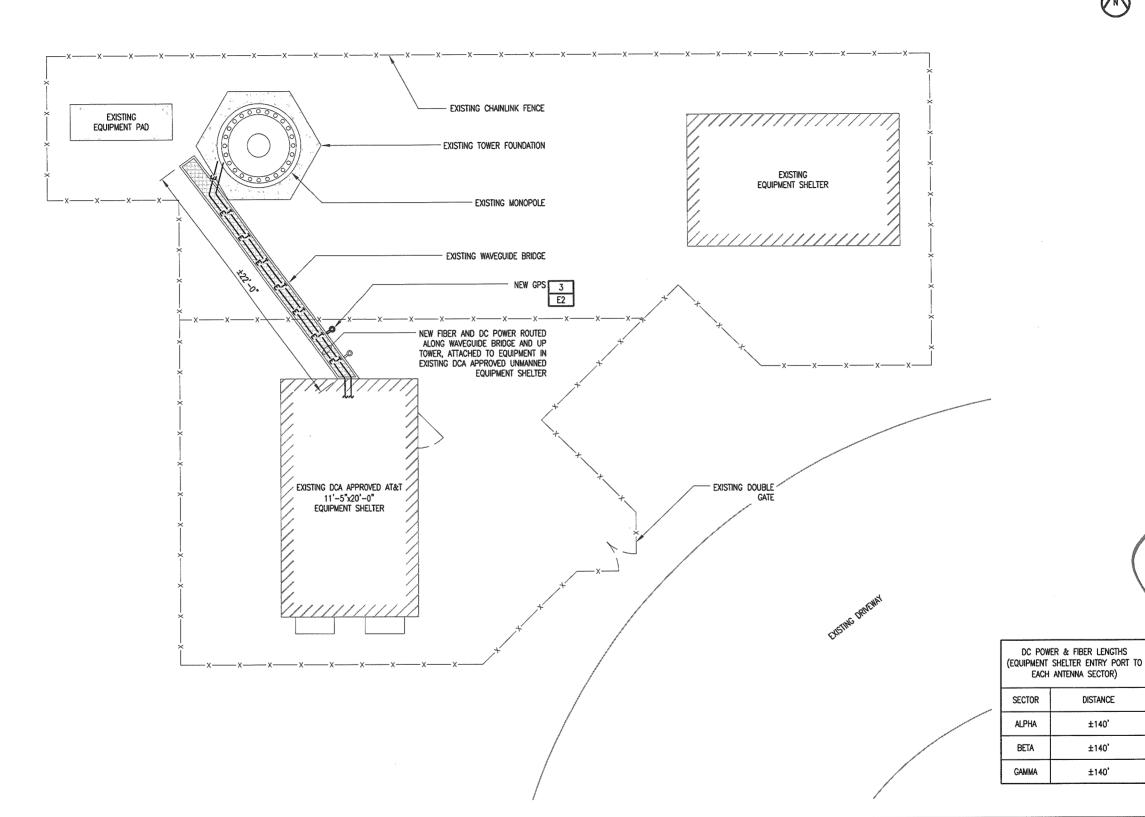
SITE TYPE: TENANT IMPROVEMENT

SHEET TITLE:

SITE PLAN

SHEET NUMBER:

G1



SEE MOST RECENT RFDS FOR LATEST ANTENNA INFORMATION BEFORE CONSTRUCTION IS STARTED. SITE DESIGN TO BE VERIFIED WITH AT&T RF LTE WORKBOOK VERSION 3.2 OR HIGHER. SYMBOL LEGEND

POWER CONDUIT TELCO CONDUIT

GROUNDING

REPRESENTS DETAIL #

C7 REPRESENTS SHEET#

NOTE 1 REPRESENTS NOTE SHT E7 REPRESENTS SHEET#

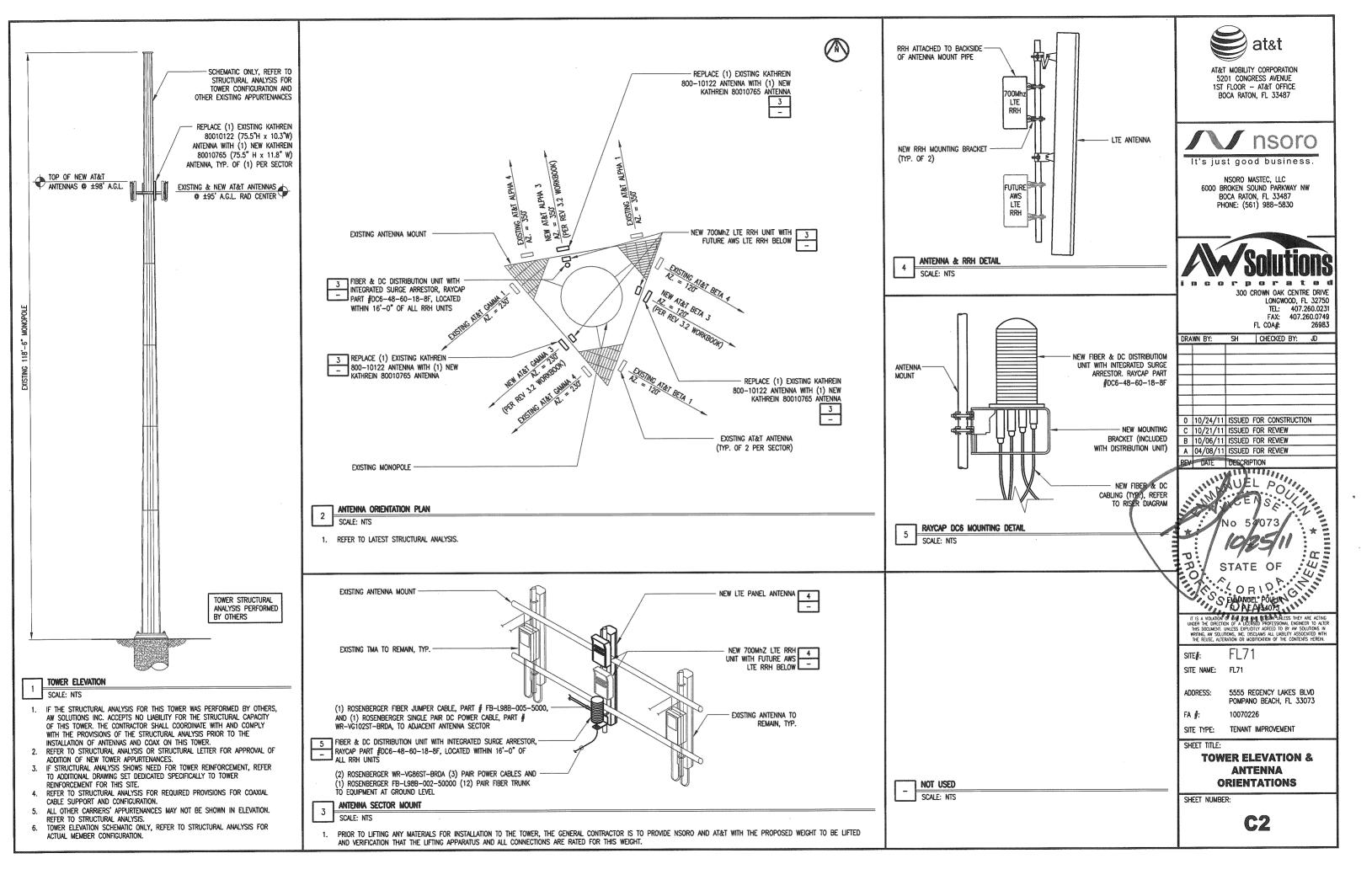
DISTANCE

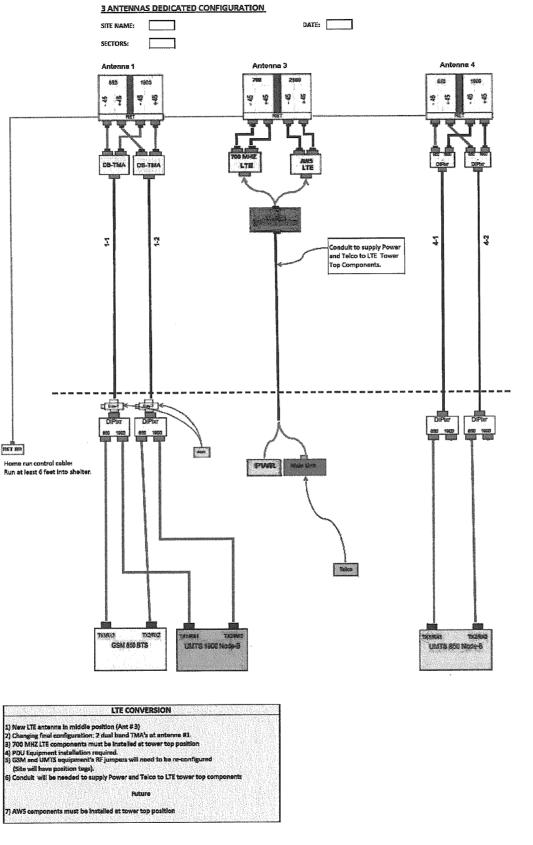
±140'

±140'

±140'

SITE PLAN SCALE: 1" = 8' (11" x 17") SCALE: 1" = 4' (24" x 36")







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DRAWN BY: SH CHECKED BY: JD

300 CROWN OAK CENTRE DRIVE LONGWOOD, FL 32750 TEL: 407.260.0231 FAX: 407.260.0749 FL COA#: 26983

Name and Address of the Owner, where					
20000000					
L					
Name of Street	0	10/24/11	ISSUED	FOR	CONSTRUCTION
NO. INC.	С	10/21/11	ISSUED	FOR	REVIEW
	В	10/06/11	ISSUED	FOR	REVIEW
1	Α	04/08/11	ISSUED	FOR	REVIEW



FL71 SITE#: SITE NAME: FL71

ADDRESS: 5555 REGENCY LAKES BLVD POMPANO BEACH, FL 33073

FA #:

SITE TYPE: TENANT IMPROVEMENT

SHEET TITLE:

REQUEST CURRENT RFDS

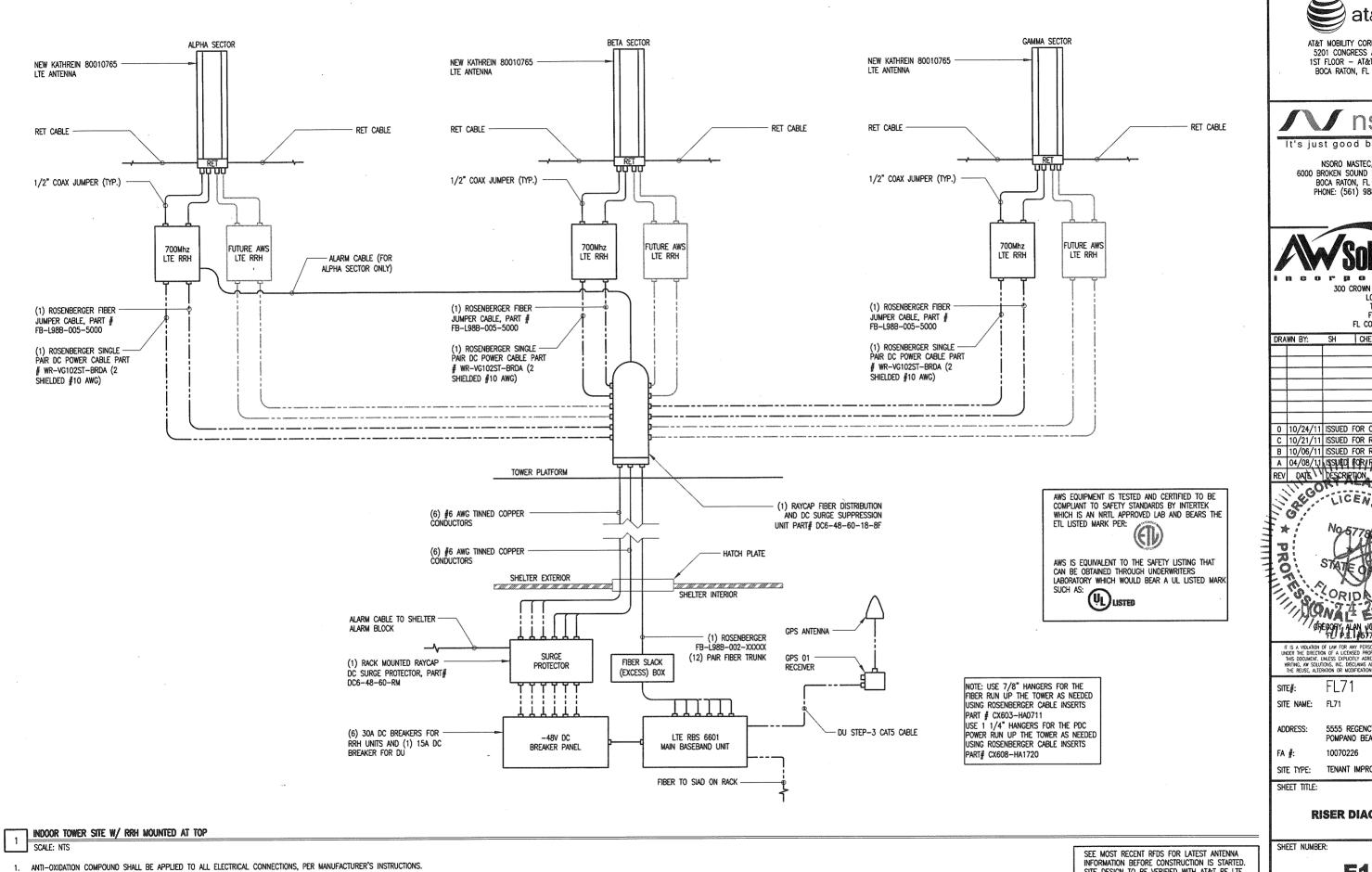
BEFORE INSTALLATION

RF DATA

SHEET NUMBER:

C3

RF DIAGRAM SCALE: NTS



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300 CROWN OAK CENTRE DRIVE LONGWOOD, FL 32750 TEL: 407.260.0231 FAX: 407.260.0749 26983 FL COA#:

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REV DATE DESCRIPTION

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FL71 SITE#: SITE NAME: FL71

5555 REGENCY LAKES BLVD ADDRESS: POMPANO BEACH, FL 33073

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SITE TYPE: TENANT IMPROVEMENT

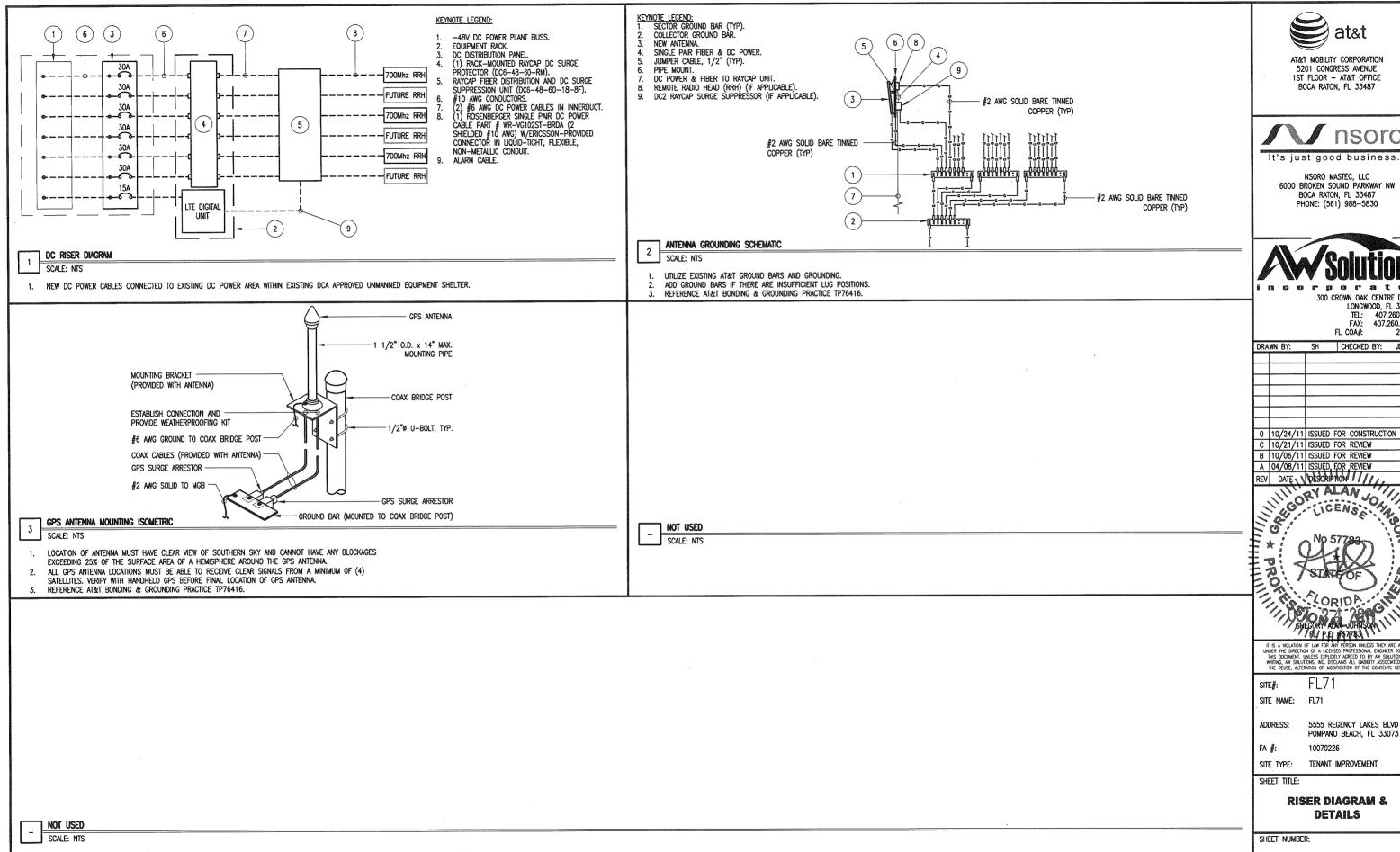
SHEET TITLE:

RISER DIAGRAM

SHEET NUMBER:

SITE DESIGN TO BE VERIFIED WITH AT&T RF LTE WORKBOOK VERSION 3.2 OR HIGHER.

E1



at&t

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NSORO MASTEC, LLC 6000 BROKEN SOUND PARKWAY NW

BOCA RATON, FL 33487 PHONE: (561) 988-5830



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DRA	WN BY:	SH	CHECKED BY:	JD
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С	10/21/11	ISSUED F	OR REVIEW	
В	10/06/11	ISSUED F	OR REVIEW	
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5555 REGENCY LAKES BLVD POMPANO BEACH, FL 33073

RISER DIAGRAM & **DETAILS**

E2

- 1.1 CONTRACT OVERMEN

 1. THE INTENTION OF THE DOCUMENTS IS TO SHOW THE COMPLETE INSTALLATION AND TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY, WHETHER OR NOT SPECIFICALLY INDICATED, FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS SIPULATED IN THE CONTRACT. THE INTENT OF THIS DOCUMENT IS NOT TO DESIGNATE THE MEANS AND METHODS OF PROPERTIES OF THE WOOK THE CONTRACTOR SHALL SUPPRISE AND COORDINATE ALL THE MEANS AND METHOUS OF PROCEDURE OF THE WORK. THE COMPRISED SHELL SUPERIOR AND SOCIETY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHOUS, TECHNIQUES, PROCEDURES, SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING CODES, STANDARDS
 - FBC FLORIDA BUILDING CODE 2007 AND 2009 SUPPLEMENTS
 - FBC FLORIDA SULDING COULD AND 2007 AND 2009 SUFFICIAL AND ASC AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATIONS IEEE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS NEC NATIONAL ELECTRICAL CODE

 - NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION UI - UNDERWRITERS LABORATORIES
 - NSPC -- NATIONAL STANDARD PLUMBING CODE

 - NSPC NATIONAL SIAMONAP DIVIDIBING CODE
 INC INTERNATIONAL MECHANICAL CODE
 INFPA NATIONAL FIRE PROTECTION ASSOCIATION
 OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 ANS/TIA TELECOMMUNICATIONS INDUSTRY ASSOCIATION 222-G STANDARD
 ALL GOVERNING STATE, COUNTY AND LOCAL CODES AND ORDINANCES
 - THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE CODE
- REQUIREMENTS.
 THE ENGINEERING DRAWINGS SHOW PRINCIPAL AREAS WHERE WORK MUST BE ACCOMPLISHED UNDER THIS CONTRACT.
 INCIDENTAL WORK MAY ALSO BE NECESSARY IN AREAS NOT SHOWN ON THE ENGINEERING DRAWINGS DUE TO CHANGES
 AFFECTING EXISTING ELECTRICAL OR OTHER SYSTEMS, SUCH INCIDENTAL WORK IS ALSO A PART OF THIS CONTRACT
 NESPECT THOSE AREAS AND ASCERTIAN WHAT IS NEEDED TO DO THAT WORK IN ACCORDANCE WITH THE CONTRACT RECHIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
- REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.

 DO NOT SCALE DRAWINGS, ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE.

 MINOR DEVATIONS FROM THE DESIGN LAYOUT ARE ARTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK

 HOMENER, NO CHANGE THAT ALTER THE CHARACTER INTENT OF THE DESIGN WILL BE MADE OR PERMITTED BY THE

 OWNER WITHOUT A CHANGE ORDER.

 CONERAL COMIL, STRUCTURAL LECTRICAL AND AMENINA DRAWINGS ARE INTERRELATED. IN PERFORMANCE OF THE WORK,

 EACH CONTRACTOR MUST REFER TO ALL DRAWINGS. ALL COORDINATION SHALL BE THE RESPONSIBILITY OF THE GENERAL
- contractor. The general notes contained herein are part of the plans and specifications, and are to be complied
- WITH IN ALL RESPECTS. THE MOST RESTRICTIVE NOTES SPECIFIED ARE TO TAKE PRECEDENCE. CERTAIN SECTIONS OF THE GENERAL NOTES MAY NOT APPLY TO EVERY SITE. THE CONTRACTOR IS TO COMPLY WITH ALL APPLICABLE GENERAL NOTES IN ALL RESPECTS
- ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENT TO BE USED IN CONDITIONS WHICH ARE
- NOT SPECIFICALLY SHOWN OTHERWISE.
 REPRESENTATION OF TRUE NORTH OTHER THAN THOSE FOUND ON THE PLOT OF THE SURVEY DRAWING SHALL NOT BE REPRESENTATION OF TRUE NORTH OTHER THAN THOSE FOUND ON THE PLOT OF THE SURVEY DRAWING SHALL ROT SECTION OF THE THE NORTH AT THE SITE. THE CONTRICTOR SHALL ROT SOLELY ON THE PLOT OF THE SURVEY DRAWING AND ANY SURVEYOR'S MARKING AT THE SITE FOR THE ESTABLISHMENT OF THE RORE NORTH, AND SHALL NOTIFY THE ENGINEER PROOF TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND EXTREMENT THE WORK IF ANY DISCREPANCY IS FOUND.
- THE CONTRACTOR SHALL USE ADEQUATE NUMBERS OF SKILLED WORKMEN WHO ARE THOROUGHLY TRAINED AND EXPERIENCED IN THE NECESSARY CRAFTS, AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS
- EXPERIENCED IN THE NECESSARY CRAFTS, AND WHO ARE COMPLETELY FAMILIAR WITH THE SPECIFIED REQUIREMENTS AND MEHODS NEEDED FOR PROPER PERFORMANCE OF THE WORK.

 THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS URBING THE COURSE OF CONSTRUCTION OF THE PROLECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THA THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD THE DESIGN ENGINEER HABBLESS FROM ANY AND HILL DIRECTLY FALL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS SUCH AS A COMPHIANCE DURING THE PROGRESS OF THE WORK THE FNOINFER WILL NOT ADVISE NOR PROVIDE DIRECTION AS
- THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY OF THE SECURITY OF THE SITE UNTIL COMPLETION OF THE
- CONSTRUCTION.
 IT SHE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS TO ENSURE THAT WORK PROGRESSION IS NOT INTERRUPTED.

 THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTOR SPECTAMING WORK ON THIS OBJECT TO ANDID DELAYS IN THE CONTRACT OS CHORDED OR OTHER
- JOB STE DURING THE PERFORMANCE OF THIS CONTRACT TO AVOID DELAYS IN THE CONTRACT SCHEDULE OR OTHER WORK PERFORMED IN THE WORKINTY OF THE CONSTRUCTION AREA.

 1. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE TO THE PROPERTY OWNER WELL IN ADVANCE OF THE STARTING DATE OF THE WORK THE OWNER SHALL ALSO BE NOTIFED OF A CHANGE IN THE CONSTRUCTION SCHEDUL.

 1. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS.

 1. EACH CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS.

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 1. EACH CONTRACTOR OF RECORD, AND SHALL PROVIDE THE JURISDICTION WITH ALL PROOF REQUIRED TO OPERATE AS THE
- CONTRACTOR OF RECORD, AND SHALL PROVIDE THE JURISDICTION WITH ALL PROOF REQUIRED TO OPERATE AS THE CONTRACTOR IN THIS JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, AND INCURRING THE COST OF ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATIONS, ETC. PROOF TO BEGIN THE WORK.

 9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AMPLE NOTICE TO THE BUILDING INSPECTION DEPARTMENT TO SCHEDULE THE REQUIRED INSPECTIONS. AN INTERPRETATION OF THE HOURS OF NOTICE SHOULD BE GIVEN TO AUTHORITIES. AN EXTENSION IN THE CONTRACT SCHEDULE WILL NOT BE GRANTED DUE TO DELAY CAUSED BY INSPECTIONS.

 0. EICH CONTRACTOR IS RESPONSIBLE FOR APPLICATION AND PATHENT OF CONTRACTOR LICENSES, BONDS AND INSURVANCES. DOCUMENTATION SHALL BE PROVIDED TO THE OWNER PRIOR TO THE WORKEN AGENCY. AND BY LAW CHALL BE CAUSED THE AUTHORS THE STATE OF THE GOVERNING AGENCY, AND BY LAW CHALL BE CAUSED THE THE CONTRACTOR DESCRIPTION TO THE TOTAL THE STATE OF THE CONTRACTOR OF THE STATES OF THE CONTRACTOR OF THE STATES OF THE CONTRACTOR OF THE STATES OF THE STATES.
- IT RE AVAILABLE FOR INSPECTION AT ALL TIMES, IT IS THE CONTRACTOR RESPONSIBILITY TO ENSURE ALL
- TRICUTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO ITAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILTS CHANGES, REVISIONS, ADDENDA, OR CHANGES ORDERS.

 2. THE CONTRACTOR IS TO PROVIDE THE OWNER WITH A FULL SET OF RECORD DRAWINGS WITH ACTUAL DIMENSIONS, ROUTING AND CIRCUITS UPON COMPLETION OF CONSTRUCTION.

 3. THE CONTRACTOR IS TO CONTACT BOTH LOCAL POWER AND TELEPHONE UTILITY COMPANIES BEFORE CONSTRUCTION.
- REGINS TO ORDER SERVICE ORTAIN AND PAY ALL FEES ASSOCIATED WITH CONSTRUCTION, SCHEDULE INSTALLATION OF COORDINATE CONDUIT RIIN/TERMINATION POINT AND OFTAIN ANY FIELD MATERIALS THAT MAY BE SUPPLIED BY
- SERVICE, COORDINATE CONDUIT KINY TERMINATION POINT AND OBTAIN ANY FIELD MATERIALS THAT MAY BE SUPPLIF THE UTILITY COMPANIES AND INSTALLED BY THE CONTRACTORS.

 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORRY BRACING, SHORING, TIES, FORM WORK AND THE PROTECTION OF ALL WORK DURING CONSTRUCTION TO AVOID DAMAGE, COLLAPSE, DISTORTION, MISAUGHMENT AND ALTERATION OF ROOFING WARR
- THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER AND TOILET FACILITIES AS REQUIRED BY THE
- PROPERTY OWNER OR COVERNING ASCHO?.

 6. THE CONTRACTOR SHALL MONITOR ALL EXISTING STRUCTURES DURING CONSTRUCTION.

 77. THE CONTRACTOR SHALL COORDINATE THE FINAL DIMENSIONS OF ANY TYPE OF BEAM LAYOUT WITH THE FOOTPRINT OF THE NEW EQUIPMENT BEFORE ORDERING ANY MATERIALS.

 78. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN SAFE CONDITIONS PRIOR TO INSTALLATIONS, AND SHALL BE OF
- THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT.

 29. ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY LOCATION AND IN A MANNER THAT WILL NOT OBSTRUCT THE FLOW OF OTHER WORK RELATED OR NOT TO THIS CONTRACT. ANY EQUIPMENT OR MATERIAL STORAGE MUST MEET ALL RECOMMENDATIONS OF THE MANUFACTURER. THE CONTRACTOR SHALL INSPECT THOROUGHLY ALL MATERIALS AND
- RECOMMENDATIONS OF THE MANUFACTUREN. THE CONTINUATION STAFF, INSPECT HONOUGHET ALL MATERIALS AND COUNTRY TO MATERIALS SHALL NOT BE INSTALLED PERMANENTLY. ALL MATERIALS SHALL NOT BE INSTALLED PERMANENTLY. ALL MATERIALS SHALL BE INSTALLED PER THE MANUFACTURERS' INSTRUCTIONS.

 EXCEPT FOR MANNING SIGNS SUCH AS "NO TRESPASSING" AND SIGNS THAT STATE OWNERSHIP AND EMERGENCY CONTINUED TO THE CONTINUED SIGNS SUCH AS "NO TRESPASSING" AND SIGNS THAT STATE OWNERSHIP AND EMERGENCY.
- TELEPHONE NUMBERS, NO SIGN SHALL BE LOCATED ON THE TOWER
- 2 ALL FOLIPMENT SHALL BE INSTALLED LEVEL AND PLUMB.
- EXISTING CONDITIONS AND STRUCTURES

 PREFORE RECONNING WORK AT THE SITE THE CONTRACTOR SHALL INSPECT THE EXISTING COMPOUND OR BUILDING AND BEFORE BEGINNING MORK AT THE SITE, THE CONTROLOR SHALL INST-ECT THE EXISTING COMPOUND OR BUILDING AND DETERMINE THE EXTENT OF DESTING FINISHES, SPECIALITIES, COUPHENT AND OTHER TIBLS WHICH MUST BE REMOVED AND REINSTALLED IN ORDER TO PERFORM THE WORK UNDER THIS CONTRACT. THE CONTROLOR MUST VERIFY ALL DIMENSIONS, CONDITIONS AND ELEVATIONS BEFORE STARTING WORK NO EXTRA CHARGE OR COMPENSIONS SHALL BE ALLOWED DUE TO DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DEVANINGS. ALL DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE BEGINEER AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK ALL WORK SHALL BE PERFORMED IN A WORKMANAILKE MANNER IN ACCORDANCE
- WITH ACCEPTED CONSTRUCTION PRACTICES.
 BY SUBMITTING A BID FOR THIS WORK, THE CONTRACTOR ACKNOWLEDGES THAT HE HAS THOROUGHLY REVIEWED AND UNDERSTOOD THE CONSTRUCTION DOCUMENTS, VISITED THE SITE AND IS FAMILIAR WITH THE CONDITIONS ENCOUNTERED
- THE CONTRACTOR, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF AM MATTER OR THING WHICH SUCH THE CONTRACTOR MIGHT NOT HAVE FULLY INFORMED HINISEL PRIOR TO BIDDING.

 NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF DIFFICULTIES THAT MAY BE ENCOUNTERED OR OF ANY
 OTHER RELEVANT MATTER CONCERNING THE WORK TO BE PERFORMED WILL BE ACCEPTED AS A RESCON FOR ANY
 FALLINE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL THE REQUIREMENTS OF THE CONTRACT
- DUCUMENTS.
 IT IS UNDESTOOD BY THE OWNER THAT THE CONTRACTOR IN SUBMITTING HIS BID, WARRANTS THAT HE HAS CAREFULLY EXAMINED THE SITE OF THE PROJECT TO ACQUAINT HIMSELF WITH THE SURROUNDING PROPERTIES, THE MEANS OF APPROACH TO THE SITE, THE CONDITIONS OF THE ACTUAL JOBS SITE, THE FACILITIES FOR DELIVERING, STORME, PLACING, PROPRIED AND ACTUAL THE SITE OF THE ACTUAL JOBS SITE, THE FACILITIES FOR DELIVERING, STORME, PLACING, PROPERTIES, THE MEANS OF THE ACTUAL JOBS SITE, THE FACILITIES FOR DELIVERING, STORME, PLACING, PROPERTIES, THE MEANS OF THE ACTUAL JOBS SITE, THE FACILITIES FOR DELIVERING, STORME, PLACING, PROPERTIES AND ACTUAL THE PROPERTY OF THE ACTUAL JOBS SITE, THE FACILITIES FOR DELIVERING, STORME, PLACING, PLAC

- HANDLING AND THE REMOVAL OF MATERIALS AND EQUIPMENT AND ANY AND ALL DIFFICULTIES THAT MAY BE PROCUNTERED DURING THE EXECUTION OF THE ALL WORK IN ACCORD WITH THE CONTRACT DOCUMENTS. ENCOUNTERED DOMING THE DECEMBER OF THE ARE WORLD AND ADDRESS VERIFIED BY THE OWNER OR ITS REPRESENTATIVE CTOR IS RESPONSIBLE FOR HAVING ALL LINDERGROUND LITELITIES LOCATED WITHIN THE LINTS O
- THE CONTRACTOR IS RESPONSIBLE FOR RAYMS ALL UNDERGROUND UTILITIES COLORIZED WHINTH HE UNITS OF CONSTRUCTION AND ACCEPTS CULL RESPONSIBILITY FOR ANY NO ALL DAMAGES WHICH MIGHT BE CAUSED THE CONTRACTOR FAILURE TO LOCATE ALL UNDERGROUND UTILITIES BEFORE COMMERCING WORK.

 SHOULD ANY ERROR OR INCONSISTENCY APPEAR IN THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR BEFORE PROCEEDING WITH THE WORK MUST MAKE MENTION OF THE SAME TO THE ENGINEER AND OWNER FOR PROPER INDUSTRIENT AND IN MY CASE PROCEED WITH THE WORK IN UNICERTAINTY OR WITH INSUFFICIENT DRAWING
- ADUSTMENT AND IN NO CASE PROCEED WITH THE WORK IN UNCLEANINT OF WITH INSUFFICIAN DEVANINGS.

 THE CONTROOT AND EACH SUDCONTRACTOR SHALL BE RESPONSIBLE FOR WHITH INSUFFICIAN OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPRESATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTOR DO THE CONTROOT PROMISE. AND THE CONTROOT PROPERED AND THE CONTROOT OF THE WORK IN THE AFFECTED AREAS. THE CONTROOT'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE
- OWNER OR ITS REPRESENTATIVE.

 9. TRADE, PRODUCT NAMES OR MANUFACTURER'S NAMES OR CATALOG NUMBERS AND INDICATIONS OF EXISTING PRODUCT TYPES SHOWN ON THE DRAWNINGS ARE BELIEVED TO BE ACCURATE. IF THEY ARE DISCOVERED TO BE INACCURATE, NOTIFY ENGINEERS BANEDATELY AND DO NOT PROCEED WITHOUT INSTRUCTIONS.

 10. PROR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT LAL AREAS FROM DAMAGES WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGES TO NEW OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE
- OURING CONSTINCTION. ANY DAMAGES TO NEW OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE INHEDIATELY PEPARED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE COST OF REPAIRING OR REPLICING MY DAMAGES AREAS.

 11. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES AND EFFORTS TO PROTECT THE STRUCTURAL INTEGRITY OF EXISTING STRUCTURES. WHEN WORK IS PEPERORBED IN THE WORNTY OF EXISTING STRUCTURE, THE STRUCTURAL INTEGRITY AND STABLILTY SHALL BE MONITORED AT ALL TIMES DURING EVERTY PHASE OF THE CONSTRUCTION.

 12. THE CONTRACTOR SHALL PROTECT DOSTING PROPERTY LINE MONIMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYFED, AS JULIOFED BY THE FOMERS OR ON MARKET OF PROPERTY CALL BE COLDINATED FOR THE CONTRACTOR.
- DESTROYED AS JUICED BY THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE LINDER THE SUPERVISION OF A LICENSED LAND SURVEYOR.
- EXPENSE UNDER THE SUPERMISION OF A LICENSED LAND SURVEYOR.

 INCH CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MAICHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLAIS.

 WHERE INDICATED ON THE PLAIS, THE CONTRACTOR SHALL PAINT ALL NEW ANTENNAS SHROUDS AND RELATED MOUNTING HARDWARE TO MATCH THE EXISTING ADJACENT SURFACES, THE CONTRACTOR SHALL NOT USE A METAL BUSSED PAINT FOR ANTENNAS, ALL SURFACE CONTRAINATION SHALL BE REMOVED PROR TO PAINTING NEW SURFACES.

 THE PLAIS SHOW SOME KNOWN SURSURFACE STRUCTURES, ABOVE—SROUND STRUCTURES AND/OR UTILITIES BELIEVED
- THE PLANS SHOW SOME KNOWN SUBSIFIENCE STRUCTURES, ABOVE—SHOUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA EVACT LOCATION OF WHICH MAY MAY FROM THE LOCATIONS INDICATED, IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTIONS ANY WORK BEFORE YOU DIG, ORILL OR BLAST, CALL THE UNDERGROUND SERVICES ALERT NUMBER ON SHEET TI AT THE REQUIRED TIME.
- THE UNDERGROUND SERVICES ALERT HUMBER ON SHEET IT AT THE REQUIRED TIME. ALL EXISTING ACTIVE SEWER, WATER GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK SHALL PROTECTED AT ALL TIMES WHERE RECHIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS
- BE PROTECTED AT ALL TIMES, WHERE REQUIRED FOR THE PROPER DECOTION OF THE WORK, SHALL BE RELOCATED OF DIRECTED BY RENOINEERS. EXPERIENCE CLATION A SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. THE CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREM. IF AN INCLINE ELECTRICAL TELEPHONE, SWER, WATER OR ANY OTHER UTILITY ARE ROCONTREED AND INTERPERE THE EXECUTION OF THE WORK, THE CONTRACTOR IS TO REMOVE THE UTILITY AND CAP, PLUG OR OTHERWISE TERMINE UTILITY AT A POINT WHERE IT NO LONGER CONFLICT WITH THE WORK THE UTILITY MORE SHALL BE GOVE IN ACCORDANCE WITH THE UTILITY COMPANIES RECOMMENDATIONS AND PER LOCAL JURIPHORITY HAVING JURISDICTION.
- ALL LITH BY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER OR DWNER'S REPRESENTATIVE AND THE UTILITY OWNER BEFORE EACH AND EVERY CONNECTION TO EXISTING SYSTEMS IS
- MANITURE FUR HALL EASING UITAILES.
 THE CONTRACTOR SHALL RESTORE ALL PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD OF CONDITION AS BEFORE DISTURBED AS DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.

 PROTECT FINISHED SURFACES INCLUDING JAMBS AND HEADS OF OPENINGS USED AS PASSAGEWAYS THROUGH WHICH
- COLIDMENT AND MATERIALS WILL PASS
- PROVIDE PROTECTION FOR EQUIPMENT ROOM SURFACES PRIOR TO ALLOWING EQUIPMENT OR MATERIALS TO BE MOVED OVER SUCH SURFACES.

 23. MAINTAIN FINISHED SURFACES CLEAN, UNARMED AND SUITABLY PROTECTED UNTIL JOB SITE IS ACCEPTED BY THE
- OWNER.

 24. In the event of damage to an existing structure, the contractor shall notify the owner or its representative damediately, and then prompily make all replacements and repairs to the satisfaction of the owner. The owner may elect to use a third party contractor to perform the repairs. All expenses ASSOCIATED WITH THE REPAIRS AND REPLACEMENTS SHALL BE PAID BY THE GENERAL CONTRACTOR SELECTED FOR THIS
- CONINGCI.

 ADDITIONAL TIME REQUIRED TO SECURE REPLACEMENT AND MAKE REPAIRS WILL NOT BE CONSIDERED BY THE OWNER TO JUSTIFY AN EXTENSION IN THE CONTRACT TIME FOR COMPLETION.
- ACCESS USE MOST DIRECT ROUTE FROM PUBLIC STREET AS AGREED TO BY COMPOUND OR BUILDING OWNER. FOR ACCESS TO AN DISTING BUILDING INTERIOR, USE LOOING DOCK AS AGREED TO BY BUILDING OWNER. COORDINATE WITH SITE OWNER CONSTRUCTION SCHEDULE & SITE ACCESS. ENSURE THAT THE OWNER OF PARENT
- KERS INVOLVED IN THIS PROJECT SHALL BE PROVIDED TO THE PROPERTY OWNER OR ITS
- THE CONTRACTOR SHALL COORDINATE ALL SPECIAL CONSIDERATIONS OF CONSTRUCTION SUCH AS NOISY OPERATION INTERRUPTION OF ANY MECHANICAL AND/OR ELECTRICAL SERVICES, MATERIAL DELIVERIES AND STORAGE, STAGING AREA, CRANE LIFTS WITH THE OWNER PRIOR TO THE START OF THE WORK.
- CAMPE LIFTS WITH THE OWNER PRIOR TO THE START OF THE WORK.
 CONTRACTOR SHALL COORDINATE WITH AN OWNER REPRESENTATIVE, THE TEMPORARY REMOVAL OF FENCE, LANDSCAPING
 & ANY EXPECTED DAMAGE TO ACCESS ROAD OR ADJACENT REPAIR OF PROPERTY PRIOR TO COMMENCING THE WORK.
 THE CONTRACTOR SHALL COORDINATE WORK HOURS & STAGING AREAS WITH OWNER.
 CONTRACTOR TO NOTIFY PROPERTY OWNER OF CONSTRUCTION START DATE WELL IN ADVANCE OF CONSTRUCTION.
- BILL ANYMEDIANCE. REMOVE STAINING OR REACTIVE MATERIALS FROM NEW AND EXISTING SURFACES IMMEDIATELY. REMOVE HAZARDOUS ACCUMULATIONS OF DEBRIS PROMPILY, AT LEAST DAILY. CONFINE DUST PRODUCING OPERATIONS DURING CUTTING, DRILLING, PAINTING AND FINISHING. THERE SHOULD BE NO OVER SPRAYING PAINT IN PARKING AREA. VACUUM MENATELY AFTER COMPLETION
- IMALEDATELY AFTER COMPLETION.

 THERE SHALL NOT BE ANY CREATION OF NOISE OUTSIDE THE NORMAL HOURS OF 7 AM TO 6 PM, UNLESS OTHERWISE AGREED UPON WITH THE OWNER. NOISE SHOULD BE KEPT TO A MINIMUM THROUGHOUT CONSTRUCTION.

 NOISE AND DUSTING BUILDING STRUCTURE VIBRATION GENERATED BY CONSTRUCTION PROCEDURES, EQUIPMENT, TOOL. AND OPERATIONS ARE TO BE KEPT TO A PRACTICABLE MINIMUM. WHERE USE OF HIGH NOSE LEVEL EQUIPMENT IS UNAVOIDABLE, AND CAN BE HEARD, CONFINE TO HOURS BEFORE 7 AM. AND AFTER 6 P.M. MONDAY THROUGH FRIDAY
- OR AS AGREED TO BY BUILDING OWNER THE CONTRACTION IS TO PROMISE PORTABLE FIRE FYTINGHISHERS WITH A RATING OF NOT LESS THAN 2-A OR 2 ARC
- THE CONTRACTOR TO PROVIDE POSTRIBLE FIRE STATISHINGUISHESS WITH A RATING OF NOT LESS HAW 2-A OR 2 AND WITHIN 75FT OF TRAVEL TO ALL PORTIONS OF THE CONTRICCTION AREA.

 THE CONTRACTOR IS RESPONDIBLE FOR MAINTAINING A NEAT AND ORDERLY STEE, YARD AND GROUNDS, REMOVE AND DISPOSE LEGALY OFF STEE ALL RUBBESH, MASTE MATERNAY, LITTER, AND ALL FOREIGN SUBSTANCES, REMOVE PETROCHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS TO A SMOOTH EVEN-TEXTURED
- AT PROJECT COMPLETION, REMOVE TEMPORARY SERVICES, CONSTRUCTION EQUIPMENT, TOOLS AND FACILITIES, MOCKUPS, FUPORARY STRUCTURES, SURPLUS MATERIALS, DEBRIS, AND RUBBISH FROM BUILDING OWNERS PROPERTY, PU NEAT, ORDERLY CONDITION, READY FOR USE. LEAVE ROOF AREAS, PIPE SPACES AND OTHER SPACES CLEAN AND FREE
- From Debies on a Dalt Basis.

 The Site and/or Building Security shall be maintained at all times during construction in order to prevent unauthorized persons from Entering the premises, edsting and new equipment and materials remain the contractor's responsibility at all time during construction.

 The Tenant's ingress and egress of the site and/or building shall be maintained throughout
- CURBINALIUM.
 THE CONTRACTOR SHALL TAKE ALL MEASURE NECESSARY TO MAINTAIN POLLUTION CONTROL, COMPLY WITH ALL GOVERNING REGULATION PERTAINING TO ENVIRONMENTAL PROTECTION, AND PROMPTLY REMOVE ALL DEBRIS AND ACCUMULATION OF MATERIALS RESULTING FROM THE WORK. TEMPORARY FACILITIES
 THE CONTRACTOR SHALL CONSIDER THAT WATER, POWER AND LIGHT ARE NOT AVAILABLE AT THIS STIE, WHEE
 THE CONTRACTOR SHALL CONSIDER THAT WATER, POWER AND LIGHT ARE NOT AVAILABLE AT THIS STIE, WHEE
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 THE CONTRACTOR SHALL CONSIDER THAT WATER, POWER AND LIGHT ARE NOT AVAILABLE AT THE POWER AND LIGHT AND LIGHT AND LIGHT AND LIGHT AND LIGHT AND LIGHT ARE NOT AVAILABLE AT THE POWER AND LIGHT AND LIGHT
- THE CONTRACTOR STATE CONSIDER THAT WATER, FUTURE AND USE THE SERVICE CONNECTION FOR PRODUCTION WORK ONLY, PROVIDED THAT ELECTRICAL CORDS AND CONNECTIONS ARE FURNISHED BY THE CONTRACTORS AND ARE DISCONNECTED AND PROPERTY STORED DURING NON-WORKING HOURS.

 THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER AND TOLLET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
- DEMOLITION AND EXISTING STRUCTURAL ALTERATION
- DEMOLITION SPECIFICS

 GENERAL CONTRACTOR IS TO DEMOUSH AND REMOVE FROM SITE (AND DISPOSE OF APPROPRIATELY) ALL ITEMS NOTED

 FOR DEMOLITION IN THE ARCHITECTURAL, CML, ELECTRICAL AND/OR STRUCTURAL DRAWNINGS, INCLUDING BELOW GRIDE

 FOUNDATION AND STRUCTURES. CONTRACTOR SHALL COORDINATE WITH THE OWNER REPRESENTATIVE THE DISPOSAL OF
- EQUIPMENT & MATERIALS.
 GENERAL CONTRACTOR IS TO EXERCISE UTMOST CARE DURING DEMOUTION AND PROMPTLY INFORM THE ENGINEER (ANY DEVIATION TO THE EXISTING STRUCTURE FROM WHAT IS SHOWN IN THESE PLANS PRIOR TO PROCEEDING WITH THE
- inutio. Ceneral contractor is solely responsible for the shoring bracing providing lateral support, and for MANITARING THE INTEGRITY OF THE DISTING STRUCTURE DURING ALL PHASES OF THE DEBICUTION AND CONSTRUCTION AND SHALL PROVIDE, IF REQUIRED, SORID & SEALED SHOP DRAWINGS, BY A REGISTERED PROFESSIONAL BROWLES FOR THE SHORING OF ALL MALLS, BEAMS, SLABS, ROOF JOISTS, OR OTHER ELEVATED STRUCTURAL ITEMS, THAT ARE

- HAVING THE SUPPORT BELOW NOTED FOR DEMOLITION.

 ANY DAMAGE DUE TO DEMOLITION, OR OTHER CONSTRUCTION ACTIVITIES, DONE TO ANY EXISTING SURFACE TO REMAIN SHALL BE REPAIRED TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER.
- 2.2 CUTTING & PATCHING

 1 DO NOT DRILL OR CUT EXISTING FLOOR JOISTS, BEAMS, COLUMNS OR OTHER STRUCTURAL ELEMENTS UNLESS DO NOT DRILL OR CUT EXISTING FLOOR JOISTS, BEAKS, COLLUMNS OR OTHER STRUCTURAL ELBIADITS UNLESS SPECIFICALLY MIDICATED. BRILL SLABS WHEERE APPROVED. CORE DRILL GROULAR OPENINGS THROUGH CONGRETE SLAB. LINE DRILL FOR RECTANGULAR OPENINGS. MAKE OPENINGS OF PROPER SIZE FOR CONDUIT, DUCTS, PIPES AND OTHER TIELS PASSING THROUGH OPENINGS. MAKE OPENINGS OF OPENINGS BE WEATHER TIGHT OR FIRE SAFE AS REQUIRED BY LOCAL BUILDING COORS & ORDINANCES. AND OPENING DRAWINGS BEFORE LOCATING SLEEVES AND OPENINGS IN NEW CONSTRUCTION AND BEFORE DRILLING EXISTING STRUCTURE. SHOW EACH OPENING AND SLEEVE IN
- CRITICE PROJECT.

 I WATED TRUST AND DONTEST WITH FIDE DROVENIC MATERIALS NEW SLEEVES AND OPENINGS THROUGH ROOFS. SEAL WAIER TIGHT AND PROTECT WITH THE PROJECTING MATERIALS NEW SLEEVES AND OPERMINES THROUGH ROUTS, FLOORS AND INVERTICAL CHASES AS REQUIRED BY CODE AND INDUSTRY STANDARDS. ALL FLOOR AND WALL PENETRATIONS SHALL BE SEALED WITH THE RETARDANT COMPOUND MEETING UL CAUSOAS. THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH
- FIRE RATED ASSEMBLIES. WHERE CUTTING OF EXISTING SURFACES OR REMOVAL OF EXISTING FINISHES IS REQUIRED TO PERFORM THE WORK
- WHERE CONTRACT AND A NEW FINISH IS NOT INDICATED, FILL RESULTING OPENINGS AND PATCH THE SUFFACE WIDDER THIS CONTRACT AND A NEW FINISH IS NOT INDICATED, FILL RESULTING OPENINGS AND PATCH THE SUFFACE AFTER DOING THE WORK AND FINISH TO MATCH ADJACCHT EXISTING SURFACES. EXCEPT IN SPACE WHERE NO WORK LUNGET HIS CONTRACT IS REQUIRED, DEALOSE EXISTING AND NEW CONDUITS, DUCTS, PIPES AND SIMILAR ITEMS IN FURRING WHERE SUCH ITEMS PASS THROUGH FINISHED SPACES WHETHER OR NOT
- RING IS INDICATED. funding is inurcated.

 ALL CONCRETE AND MASONRY PENETRATIONS SHALL BE DONE USING ROTARY ACTION ONLY (NO HAMMERING ACTION).
- REPAIR, PATCH, FINISH AND/OR REFINISH AS APPLICABLE TO MATCH ADJACENT EXISTING FINISHES THOSE EXISTING
- SURFACES DAMAGED OR NEW PROPOSED SURFACES DURING PERFORMANCE OF THE WORK UNDER THIS CONTRACT.
 WHERE CONDUITS, DUCTS, PIPES AND SIMILAR ITEMS ARE SHOW TO BE INSTALLED IN EXISTING WALLS OR PARTITIONS. HASE THE WALLS OR PARTITIONS, INSTALL THE TIMES AND PATCH THE WALLS OR PARTITIONS TO MAKE THE
- NEATLY CHASE THE WALLS OR PARTITIONS. INSTALL THE TIMES AND PATCH THE WALLS OR PARTITIONS TO MAKE THE
 INSTALLATION NOT DISCERNIBLE IN THE FINISHED WORK.

 WHERE A NEW CUTTING IS NOT SCHEDULED, INSTALL NEW CONDUITS AND PIPES IN EVERY CASE, AND NEW DUCT
 WHERE POSSIBLE ABOVE EXISTING CELLING, REMOVE EXISTING CELLING AS NECESSARY. AFTER INSTALLATION OF
 CONCEALED WORK, REINSTALL REMOVED CELLING, AND PATCH AND REFINISH TO MAICH ALLOWEDTH UNREMOVED CELLINGS.

 RÉPAIR ALL METIL, SURFACES THAT HAVE BEEN CUT OR DAMAGED BY REMOVING ANY EXISTING RUST AND APPLYING

- <u>POST-INSTALLED ANCHORS</u>

 POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE DRAWINGS. CONTRACTOR SHALL OBTAIN APPROVAL FROM ENGINEER OF RECORD PROR TO USING POST-INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.
- CARE SHALL BE TAKEN TO AVOID CONFLICTS WITH EXISTING REPAR. WHEN EXISTING REPARS ARE ENCOUNTERED OFFSET CARE SHILL BE JAKEN TO KNOW OMPLOTS WITH EXISTING REDMY, WHEN EXISTING REBMY WHEN EXISTING REBMY AND THE LOCATION OF ANCHOR IF POSSIBLE, PATCH UNUSED HOLES WITH GROUT.
 ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AT NOT LESS THAM MINIMUM EDGE DISTANCES AND/OR SPOINCIS INDICATED IN THE MANUFACTURER'S LITERATURE. UNLESS SPECIFIED OTHERWISE, ANCHORS SHALL BE EMBEDDED IN THE APPROPRIATE SUBSTRATE WITH A MINIMUM EMBEDMENT OF 8 TIMES THE
- AND THE STAFF OF THE EMBELLENT REQUIRED TO SUPPORT THE MINISTON OF THIS THE MINISTON OF THE MISTON O PRODUCT WILL ACHIEVE AN EQUIVALENT CAPACITY USING THE APPROPRIATE DESIGN PROCEDURE REQUIRED
- SUBSTITUTED PROJECT HILL ACTIVITY AND CONTINUENCE OF THE PROJECT HIS STATEMENT CONTINUENCE CONTINUENCE OF THE CONTINUENCE OF THE CHORD HIS THE
- L MASONRY PENETRATIONS SHALL BE DONE USING ROTARY ACTION ONLY (NO HAMMERING ACTION). X—RAYS ARE TO
- 5.2 AMESIA MICHORS

 1. EPOXY AND ACRULE ADHESIVES: ADHESIVES SHALL BE A CARTRIDGE TYPE, TWO-COMPONENT, SOLID EPOXY BASED

 SYSTEM DISPUSED AND MICED THROUGH A STATIC MIXING NOZZLE SUPPLIED BY THE MANUFACTURER. ACCEPTABLE

 INSTALLATION AND PERFORMANCE TEMPERATURE RANGES SHALL BE VERIFIED WITH MANUFACTURER'S LITERATURE PRIOR

 TO INSTALLATION. EPOXY ADHESINES SHALL HAVE AN EVALUATION REPORT ISSUED BY ICC/ICED EVALUATION SERVING

 TO INSTALLATION. EPOXY ADHESINES SHALL HAVE AN EVALUATION REPORT ISSUED BY ICC/ICED EVALUATION SERVING

 TO INSTALLATION. INC. AND BE TESTED IN ACCORDANCE WITH ICC/ICBO'S ACCEPTANCE CRITERIA FOR ADHESIVE ANCHORS IN CONCRETE
 - NRY ELEMENTS (AC 58) FOR THE FOLLOWING: SEISMIC AND WIND LOADING
 LONG TERM CREEP AT ELEVATED TEMPERATURES
 STATIC LOADING AT ELEVATED TEMPERATURES
 DAMP AND WATER-FILLED HOLES
 FREEZE-THAW CONDITIONS

 THE MUNICIPAL ETMS INSTANCE AND SPA
- E. PROCECE-ITAN CONTINUE EDGE DISTANCE AND SPACING
 EPOXY ADHESINE SHALL MEET THE MINIMUM REQUIREMENTS OF ASTM C-881 TYPE I, II, IV AND V, GRADE 3, CLASS B
 AND C. ACRYLIC ACHESIVE SHALL MEET THE MINIMUM PHYSICAL REQUIREMENTS OF ASTM C-881 TYPE I AND IV, GRADE
- 3, CLSS A, B AND C.

 BIOLASSILLED DONESNES: CAPSULE SHALL BE A TWO—COMPONENT, VINYLESTER BASED ADHESIVE

 CAPSULE-WITHIN—A-CAPSULE SYSTEM SUPPUED IN MANUFACTURER'S STANDARD PACKACING. THE CAPSULE IS PLACED

 IN THE HOLE AND THE RESID AND INTIMIZED COMPONENTS ARE COMBINED WHEN THE ROO OR REBAR IS DRIVEN TO

 THE BOTTOM OF THE HOLE THROUGH THE CAPSULE NO SPINNING OR INSERT END PREPARATION SHALL BE REQUIRED

 FOR PROPER INSTALLATION, ACCEPTABLE INSTALLATION AND PERFORMANCE TEMPERATURE RANGES SHALL BE VERIFIED

 WITH MANUFACTURER'S LITERATURE PRORE TO INSTALLATION. CAPSULE ANIESNES SHALL BE CYBRIFD. ICC/ICBO'S ACCEPTANCE CRITERIA FOR ADHESIVE ANCHORS IN CONCRETE AND MASONRY ELEMENTS (AC 58) FOR

LONG TERM CREEP AT ELEVATED TEMPERATURE

- CRITICAL AND MINIMUM EDGE DISTANCE AND SPACING ADHESIVE LIMITATIONS
 - Installation Temperature: When the rase material Temperature Drops Below 40—Degrees
 - INSTALLATION TEMPERATURE: WHEN THE BASE MATERIAL TEMPERATURE DRIVES UNTIL OFFICIALS F (5-DEGREES C), ONLY ACRILLO ADHESINES SHALL BE USED FOR ADHESINE INSTALLATIONS. SEE MANUFACTURER'S INSTRUCTIONS FOR ADDITIONAL MINIBIUM TEMPERATURE REQUIREMENTS. HOLLOW SUBSTRATE: THE ADHESINE MATERIAL BE USED FOR ADHESINE INSTALLATIONS INTO HOLLOW SUBSTRATE MATERIAL, ENCAPSULATED ADHESINES SHALL NOT BE USED IN HOLLOW SUBSTRATE MATERIAL, ENCAPSULATED ADHESINES SHALL MOT BE USED IN HOLLOW SUBSTRATE APPLICATIONS.

 MOISTURE, ENCAPSULATED ADHESINES SHALL NOT BE USED WHEN MOISTURE IS PRESENT IN OR
 - AROUND HOLF OVERSIZED HOLES REFER TO MANUFACTURER'S INFORMATION IF DRILLED HOLE SIZE IS LARGER
- ORE—DRILLED HOLES REFER TO MEMORPHICED.

 CORE—DRILLED HOLES REFER TO MANUFACTURES'S INFORMATION IF HOLES ARE ORILLED WITH A CORE—DRILL BIT.

 DO NOT DISTURE ANCHORS DURING SPECIFED CURE TIME.
- MECHANICAL ANCHORS

 ANCHORS USED TO TRANSMIT LOAD [L.) BETWEEN STRUCTURAL ELEMENTS AND/OR II.) FROM LIFE SAFETY-RELATED ATTACHMENTS SHALL BE DESIGNED IN ACCORDANCE WITH ACL 318 APPENDIX D. WHICH REQUIRES ANCHORS TO BE REMAINING STATE OF CONTROL OF THE STATE OF T
- 6.4 PENETRATION FREE ADHESIVE CONNECTION

 1. ADHESIVES SHALL BE A CARTRIDGE TYPE, TWO-COMPONENT, SOLID EPOXY BASED SYSTEM DISPENSED AND MIXED ADHESINGS SPALL BE A CARTROLE TIPE, IND-COMPONENT, SOULD BYOKT BASED STSTEM DISPONSED AND MIRAD THROUGH A STATIO MAKING NOZZE SUPPLIED BY THE MANUFACTURER. THE ADHESINE STALL MEET THE MINIMUM REQUIREMENTS OF ASTM C-881 TYPE I, II, IV AND V, GRADE 3, CLASS B AND C. ACCEPTABLE INSTALLATION AND PERFORMANCE TEMPERATURE RANGES SHALL BE VERIFIED WITH MANUFACTURER'S LITERATURE PRIOR TO INSTALLATION. EPOXY ADHESINES SHALL HAVE AN EXALLATION REPORT ISSUED BY ICC/CROD CAPILLATION SERVICE, INC. AND BE TESTED IM ACCORDANCE WITH ICC/CROO'S ACCEPTANCE CRITERIA FOR ADHESIVE ANCHORS IN CONCRETE AND MASONRY. FLEMENTS (AC 58) FOR THE FOLLOWING
 - SFISMIC AND WIND LOADING
 - LONG TERM CREEP AT ELEVATED TEMPERATURES
 - STATIC LOADING AT ELEVATED TEMPERATURES
 DAMP AND WATER-FILLED HOLES
 - FREEZE-THAW CONDITIONS
 CRITICAL AND MINIMUM EDGE DISTANCE AND SPACING
- P. COURCAL AND MEMBAUL EUSE DISTANCE AND SPACING
 SURFACES MUST BE CLEAN AND SOUND. IT MAY BE DRY OR DAMP, BUT FREE OF STANDING WATER. REMOVE DUST,
 LATTANCE, GREASE, CURRING COMPOUNDS, MEMEGNATIONS, WAXES AND ANY OTHER CONTAMINANTS.
 CONCRETE SHOULD BE CLEANED AND PREPARED TO ACHIEVE A LATTANCE AND CONTAMINANT FREE, OPEN TEXTURED
 SURFACE BY BLAST CLEANING OR EQUIVALENT MECHANICAL MEANS. STEEL SHOULD BE CLEANED AND PREPARED
 THOROUGHLY BLAST CLEANING.
- APPLY PRODUCT PER MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. APPLY TO UNIFORMLY COVER ENTIRE ARCA UNDER BASE PLATE. WITH LEG FIRMLY INTO PLACE UNTIL ADHESIVE CURES. DO NOT INSTALL PLATFORM BEAMS UNTIL / FULL (24) HOUR PERIOD OF CURING HAS ELAPSED.
- THE UNDERSIDE OF PLATE SHALL BE ROUGHENED AND CLEANED PER NOTE \$3. DO NOT GALVANIZE OR PAINT THE

THE THICKNESS OF ADHESIVE INJECTION GEL LAYER SHALL NOT EXCEED 16:

- ALL STRUCTURAL STEEL SHALL BE A-36
- ALL SINCULUME, SIELE SMALL BE M-30KS.

 ALL PIPE SHALL BE M-55 GRADE B (F)=35KS)

 ALL WISHAPES SHALL BE ASTM A992 (F)=50KS)

 ALL SS SHALL BE ASTM A992 (F)=50KS)

 BOLTS SHALL BE A-325 OR A490 AS WORKNED ON PLANS WITH THREADS EXCLUDED FROM THE SHEAR PLANE UNLESS
- OTHERMISE NOTEJ.

 ALL A-325/A490 BOLTS, NUTS, AND WASHERS SHALL BE AMERICAN MADE. THE MANUFACTURER SHALL PROMOE
 CERTIFICATION THAT THEY ARE AMERICAN MADE. THREADS SHALL BE EXCLUDED FROM THE SHEAR PLANE FOR ALL BOLT.

- CONNECTIONS.

 TO AVOID PHOROGEN EMBRITTLEMENT, AMSO BOLTS SHALL NOT BE CALVANIZED. AMSO BOLTS SHALL BE COATED WITH A BIMETERIC COMPOUND MADE OF METALLIC ZINC AND ALUMINUM FLAKES (DACROMET OR APPROVED EQUAL).

 WELDING STALL BE DONE WITH EBOOX, LOW HYDROGEN ELECTRODES IN ACCORDANCE WITH THE LATEST A.W.S. D1.1 WELDING COOC THE MINIMUM WELDI IS 3/16 FILLET ALL AROUND, UON.

 ALL STRUCTURAL STEEL AND PIPE, EXCEPT AMSO BOLTS, TO BE HOT DIPPED GALVANIZED PER ASTIN ALS. MUTS AND WASHERS SHALL BE GADIAVANIZED PER ASSIN ALS. AND WASHERS SHALL BE CADMUM PLATED PER ASSIN BY AND WASHERS SHALL BE ALVANIZED PER ASSIN ALS. AND WASHERS SHALL BE CADMUM PLATED PER ASSIN BY AND WASHERS SHALL BE CADMUM PLATED PER ASSIN BY AND WASHERS SHALL BE CADMUM PLATED PER ASSIN BY AND WASHERS SHALL BE CADMUM PLATED PER ASSIN BY AND WASHERS SHALL BE CADMUM PLATED PER ASSIN BY AND WASHERS SHALL BE CADMUM PLATED PER ASSIN BY AND WASHERS SHALL BE CADMUM PLATED PER ASSIN BY AND WASHERS SHALL BE CADMUM PLATED PER ASSIN BY AND WASHERS SHALL BE CADMUM PLATED PER ASSIN BY AND WASHERS SHALL BE CADMUM PLATED PER ASSIN BY AND WASHERS SHALL BE CADMUM PLATED PER ASSIN BY AND WASHERS SHALL BE CADMUM PLATED PER ASSIN BY AND WASHERS SHALL BE CADMUM PLATED PER ASSIN BY AND WASHERS WASH
- Hydrocoh deisritlehn.
 All Pipes Shall be galvanized inside and outside.
 Edge distance shall be at least 1 1/4" unless otherwise noted. Holes shall be punched or drilled 1/16"
 Larger Than The Dameter of The Bolts They will receive unless otherwise noted.
- LARGER THAN THE DIAMETER OF THE BOLTS THEY WILL RECEIVE UNLESS OTHERWISE NOTED. ALL FIELD DRILLED HOLES AND FIELD CUT ENDS SHALL BE GIVEN TWO (2) COATS OF ZRC. GAUNLITE GALVANIZING REPAIR COMPOUND OR APPROVED EQUIVALENT. TOUCH UP AND REPAIR OF GALVANIZED SURFACES SHALL BE PERFORMED PER THE REQUIREMENTS OF ASTM A-780.
 ALL U-BOLTS SHALL HAVE 2 EA NUTS PER LEG OR ONE ANCO LOCK NUT.
 NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED, OR OTHERWISE ALTERED UNLESS APPROVED IN WRITING BY THE
- 8.2 MISCELLANEOUS STEEL TRANSMISSION CABLE SUPPORTS

 1. ALL SECTIONS SHOWN MANUFACTURED BY "UNISTRUT" AND DISTRIBUTED BY RECOMMENDED MANUFACTURER NEWTON OR
- EQUAL.
 UNISTRUT CEILING HANGERS (ROOS WITH CHANNELS USED TO SUPPORT ONE SIDE OF CABLE RUNWAY FROM AUXILIARY FRAMING OR CFILING) TO BE SPACED NO GREATER TO 3'-0" O.C.
- Framing or Ceiling) to Be' spaced no greater to 3'-0' o.c.

 Wall Claippe, and anchor Bouts in vertical Ladore spall be installed inside Ladore,

 No field cuts of galwized materials shall be allowed without the authorization from the owner.

 Nuts shall be installed in bottom of horizonata ruin assembles or towards wall on vertical assembles.

 Structural steel associated hardware shall be hottip galwarzed in conformance with astim al23.

 Threaded products shall be galvanized in conformance with astim al33 grape? C.

 Splicing of Structural steel Members is prohibited without prior approval from the connecr as to
- LOCATION AND TYPE OF SPICE TO BE MADE ANY MEMBER HAVING A SPICE NOT SHOWN AND DETAILED ON SHOP NCS WILL BE REJECTED
- DRAWINGS WILL BE REJECTED.

 BOLTS AND RODS SHALL CONFORM TO ASTM A307. HIGHER STRENGTH BOLTS MAY BE USED. BOLTS SHALL BE SNUG
 TIGHT, UNLESS OTHERWISE NOTED. SHORT SLOTTED HOLES SHALL BE PERMITTED PROVIDED WASHERS ARE INSTALLED IN
 ACCORDANCE WITH MSC REQUIREMENTS. WASHERS SHALL BE HARDENED WHERE A325 BOLTS ARE UTILIZED.
 RUNWAYS (CABLE LADDERS) ARE CONNECTED BUT DE HOT OF THE NEW ON EXPENSION CLAMP OR EQUIL.
 CABLE LADDER BY SUPPORT SHALL BE USED FLOOR SUPPORT ON VERTICAL CABLE LADDERS AND EARTHQUAKE END
- ALL COMPONENTS TO BE INSTALLED DEP CONSTRUCTION DOCUMENTS AND/OR MANUFACTURER'S INSTRUCTIONS
- ALL COMPONENTS TO BE INSTALLED PER CONSTRUCTION DOCUMENTS AND/OR MANUFACTURER'S INSTRUCTIONS.
 BINSCELLANGOUS STEEL LIGHT, GAUGE STEEL STUDS.

 LIGHT GRUGE STEEL STUD SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

 ASTM C645-88 NON LOAD (AXML) BEARING STEEL STUDS, RUNNERS (TRACK) AND RIGID FURRING CHANNELS FOR SCEW APPLICATION OF GYPSUM BOARD.

 ASTM C754-88 INSTALLATION OF STEEL FRAMING MEMBERS TO RECEIVE SCREW ATTACHED GYPSUM BOARD.

 ASTM C1002-83 STEEL DRILL SCREWS FOR THE APPLICATION OF GYPSUM BOARD STANDARD ORYMILL STUDS SHALL BE 25 CAUGE ELECTROCALVANIZED AND HAVE PURCHED UTILITY OPENINGS AND KNURLED FLANGES AT LEAST 1 1/4" WIDE WITH FLANGE RETURNS, EXCEPT WHERE 20 GAUGE OR HEAVIER IS
- SPECIFICAL ABOVE ARE MINIMUM. WHERE REQUIRED, STUDS HEIGHT EXCEEDS CODE APPROVAL, PROVIDE HEAVIEF GAUGE STUDS AND/OR DECREASE STUD SPACING AS NECESSARY TO CONFORM TO CODE REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER. provide all standard accessories including floor and ceiling tracks, clips, fasteners and the like of THE SAME MANUFACTURER AS FACHTYPE OF STUDS SPECIFIED. AS REQUIRED TO COMPLETE THE INSTALLATION
- STEEL BACKING PLATES SHALL BE 4" WIDE BY 16 GAUGE STEEL UNLESS NOTED OTHERWISE. APPLY SHOP COAT OF METAL PRIMER SHALL BE SINCLAR NO. 15 RED OXIDE PRIMER OR EQUIVALENT.
 FASTEN STUD TRACKS WITH BOUTS OR SCREWS TO METAL OR ANCHOR AT LEAST 1 1/4" DEEP INTO CONCRETE WITH
 BOLTS AND EXPANSION SHELL, SLEEVES "DRYMINS" CINCH ANCHORS AND LEAD PLUGS, DRILLED AND BOLTED STEEL
 SHELL, POMOER DRIVEN FASTENERS OR OTHER APPROVED DEVICES.

- ELECTRICAL

- 11 ELECTRICAL
 11.1. GENERA
 1. THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, TRANSPORTIATION, CONSTRUCTION
 1 TOOLS, ETC., FOR THE INSTALLATION OF COMPLETE AND PROPERLY OPERATING SYSTEMS.
 2. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE LAWIS AND ORDINANCES OF ALL AUTHORITIES HAVING JUBISTICHON
 AND WITH ALL ASSOCIATED UTILITY COMPANY REGULATIONS AND APPLICABLE REQUIREMENTS. INSTALLATION WILL ALSO
 COMPLY WITH THE LATEST EDITIONS OF ALL CODES AND STANDARDS OF THE EMITTES LISTED ON SHEPT SP1, NOTE 2.
 THE MOST STRINGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES OR DIFFERENCES IN THE BODE
 FOURCEMENTS.
- equirements. The contractor shall secure all necessary electrical permits and pay all required fees
- THE CONTRACTOR SHALL SECURE ALL NECESSARY ELECTRICAL PERMITS AND PAY ALL REQUIRED FIELS.
 RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFED AND
 INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DOCUMENTS WHICH SHALL BE TURNED, OVER TO THE
 CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.
 ALL BROCHMERS, OPERATION MANUALS, CATALOSS, SHOP DRAWINGS, SPECIFICATIONS, ETC., SHALL BE TURNED OVER
 TO THE CARRIER AT THE COMPLETION OF THE PROJECT.
 GUARANTEE/MARRANTY: CHARANTEE INSTALLATION TO BE FREE OF DEFECTS, SHORTS, GROUND, ETC., FOR A PERBOQ
 OF ONE YEAR. FURNISH WARRANTY SO THE DEFECTIVE MATERIAL AND/OR WORKMASHIP WILL BE
 REPAIRED/REPLACED IMMEDIATELY UPON NOTIFICATION AT NO COST TO THE OWNER OF PERBOD OF WARRANTY, IF,
 AFTER THERTY (SO) DATS THE CORRECTIONS ARE NOT COMPLETE, THE OWNER OF PERBOD OF WARRANTY, IF,
 AFTER THERTY (SO) DATS THE CORRECTIONS ARE NOT COMPLETE, THE OWNER RESERVES THE OPTION OF ARRANGING
 FOR THE NECESSARY REPAIRS AND BECKCHARGING THE CONTRACTOR FOR THE WORK.
 THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES, AS NECESSARY.

 DO NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER OF THAT SERVICE AND WRITTEN
 PERMISSION OF THIS INSTALLATION'S CARRIER.
- PERMISSION OF THIS INSTALLATION'S CARRIER. CHANGES: NO ADDITIONAL COSTS FOR LABOR OR MATERIALS WILL BE ALLOWED FOR CHANGES OR MODIFICATIONS MADE UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE ARCHITECT, ENGINEER OR OWNER IN THE FORM OF A
- CHANGE FROM WHITE PERSONNELS OBJUSTED FROM THE PROGRESS, DESIRED, OF OWNERS WE WE THE TOTAL OF A CHANGE OF THE PROGRESS LECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT TO BE SCALED.
 DISCREPANCIES: DISCREPANCIES ON THESE PLANS, SPECIFICATIONS, ETC., MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER

 12. SURVEY AND CONDITIONS: VISIT THE JOB SITE PRIOR TO SUBMITTING BID, AND MAKE A SURVEY OF EXISTING CONDITIONS WHICH MAY AFFECT THE WORK TO BE PERFORMED. NO OTHER ALLOMANCES WILL BE GIVEN FOR THE SIT
- CO-OPERATION: CO-OPERATE WITH OTHER CONTRACTORS AND SUBCONTRACTORS ON SITE. ARRANGE AND EXECUTE 13.
- ALL TRADES CONCERNED.

 TEMPORARY POWER ARRANGE AND PAY FOR THE CARRIER'S TEMPORARY POWER DURING CONSTRUCTION.

 INSTALLATION SHALL COMPLY SPECIFICALLY WITH ENGINEERING STANDARDS MANUAL ANY DEMATIONS SHALL BE
 BROUGHT TO THE ATTENTION OF THE PROJECT MANUAGER PRIOR TO COMMENCEMENT OF WORK.

 PROCUREDAIN VERIFICATION: PROVIDE AN TEMPLED CERTIFICATION TO THE PROJECT MANAGER THAT EQUIPMENT AND

 RELATED HARDWARE HAVE BEEN OFDERED WITHIN 24 HOURS OF NOTICE TO PROCEED.

 THE SUBCONTRACTOR SHALL NOTIFY AND OBTINI NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE

 COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
- 11.2 INSPECTIONS <u>INSPECTIONS.</u>
 GENERAL: DURING AND UPON COMPLETION OF WORK, ARRANGE AND PAY ALL ASSOCIATED INSPECTIONS OF ALL ELECTRICAL WORK INSTALLED UNDER THIS CONTRACT. IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT.
- SPECTIONS REQUIRED: AS PER THE LAWS AND REGULATIONS OF THE LOCAL AND/OR STATE AGENCIES HAVING INSPECTIONS REQUIRED: AS PER THE LAWS AND REGULATIONS OF THE LOCAL AND/OR STATE AGENCIES HAVING JURISDICTION AT THE PROJECT SITE. INSPECTION AGENCY: APPROVED BY THE LOCAL AND/OR STATE AGENCIES HAVING JURISDICTION AT THE PROJECT SITE. CERTIFICATES: SUBJUIT ALL REQUIRED INSPECTION CERTIFICATES TO THE CARRIER AND UTILITY.
- 11.3 HANGERS AND SUPPORTS

 1. MATERIALS: ALL HANGERS, SUPPORTS, FASTENERS AND HARDWARE SHALL BE ZINC COATED OR OF EQUIVALENT MANIFORMS ALL PHONESS, SUPPORTS, FASTERIES WE PRODUCE STAND SHALL BE ZERO CONTROLLING RESISTANCE BY TREATMENT OR INHERENT PROPERTY AND SHALL BE MANUFACTURED PRODUCTS DESIGNED FOR THE APPLICATION. PRODUCTS FOR OUTDOOR USE SHALL BE HOT DIP GALVANIZED.

 TYPES: HANGERS, STRAPS, RISER SUPPORTS, CLAMPS, U-CHANNEL, THREADED ROOS, ETC., AS INDICATED OR
- REQUIRED.

 INSTALLATION: RIGIDLY SUPPORT AND SECURE ALL MATERIAL, RACEWAY AND EQUIPMENT TO BUILDING STRUCTURE USING HANGERS, SUPPORTS AND FASTENERS SUTFABLE FOR THE USE ON MATERIALS AND LOADS ENCOUNTERED. PROVIDE ALL NECESSARY HARDWARE. PROVIDE CONDUIT SUPPORTS AT MAXIMUM 5 FT. O.C. STRUCTURAL MEMBERS: DO NOT CUT, DRILL OR WELD ANY STRUCTURAL MEMBER EXCEPT AS SPECIFICALLY APPROVED



AT&T MOBILITY CORPORATION 5201 CONGRESS AVENUE 1ST FLOOR - AT&T OFFICE ROCA RATON, FL 33487



NSORO MASTEC, LLC 6000 BROKEN SOUND PARKWAY NW BOCA RATON FL 33487 PHONE: (561) 988-5830



300 CROWN OAK CENTRE DRIVE LONGWOOD, FL 32750 TEL: 407.260.023 FAX: 407.260.0749 FL COA#: 26983 CHECKED BY: JD

0 10/24/11 ISSUED FOR CONSTRUCTION C 10/21/11 ISSUED FOR REVIEW B 10/06/11 ISSUED FOR REVIEW A 04/08/11 ISSUED FOR REVIEW REV DATE DESCRIPTION

DRAWN RY-

CENSE 0/84013 STATE OF . W. 6.4.0RIQ. SEMMANUEL POUNTS

IT IS A VIOLATION OF THE SOR BUT BERSON UNLESS THEY ARE ACTION

SITE#: SITE NAME: FL71

5555 REGENCY LAKES BLVD ADDRESS: POMPANO BEACH, FL 33073

10070226 SITE TYPE: TENANT IMPROVEMENT

SHFFT TITLE:

SPECIFICATIONS

SP1

MISCELLANEOUS SUPPORTS: PROVIDE ANY ADDITIONAL STRUCTURAL SUPPORT STEEL BRACKETS, ANGLES, FASTENERS AND HARDWARE AS REQUIRED TO ADEQUATELY SUPPORT ALL ELECTRICAL MATERIALS AND EQUIPMENT ONE—HOLF STRAPS SHALL NOT BE USED FOR CONDUITS LARGER THAN 3/4 INCH.

ONE-THOLE STAND SHEEL NOT BE USED TO CONDOINS EMBELT HIM BY HIGH.

EQUIPMENT CHRINETS, TERMINAL BOXES, JUNCTION BOXES AND PULL BOXES SHALL BE CALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND BE RATED NEMA 1 (OR BETTER) INDOORS OR NEMA 3R (OR

BETTER) OUTDOORS.
WIREWAYS SHALL BE EPOXY—COATED (GRAY) AND INCLUDE A HINGED COVER AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS. JUNCTION BOXES: JUNCTION BOXES SHALL BE A MINIMUM SIZE OF 4 INCHES SQUARE BY 1-1/4 INCHES DEEP.

3. JUNCION DUSES: JUNCION DUSES SHALL BE A MINIMON SIZE OF 4 INCHES SCORE BY 1-1/4 INCHES DEEP.

11. HOLES, SLEEVES AND OPENINGS

1. GENERAL: PROVIDE ALL HOLES, SLEEVES AND OPENINGS REQUIRED FOR THE COMPLETION OF WORK AND RESTORE ALL DAMAGED SURFACES TO MATCH SURFACING SURFACES.

2. COMDUIT PENETRATIONS: SIZE CORE-DRILLED HOLES SO THAT AN ANNULAR SPACE OF NOT LESS THAN 1/4 INCH AND NOT MORE THAN 1 INCH IS LEFT AROUND THE CONDUIT, PIPE, ETC. WHEN OPENINGS ARE CUT IN LIEU OF CORE-DRILLED, PROVIDE SLEEVE IN ROUGH OPENING. SIZE SLEEVES TO PROVIDE AN ANNULAR SPACE OF NOT LESS CONTROLLED.

CORE—PRILLED, PROVIDE SLEEVE IN ROUGH OPENING, SIZE SLEEVES TO PROVIDE AN ANNOLAR SPACE OF NOT LESS THAN 1/4 NICH AND NOT MORE THAN 1 INCH AROUND THE CONDUT, PIEP ETC. PATCH AROUND SLEEVE TO MATCH SURROUNDING SURFACE.

PROVIDE APPROPRIATE WEATHERPROOFING MATERIALS FOR PENETRATIONS NEEDING TO BE SEALED FROM POTENTIAL WATER INTRUSION. PROVIDE FIREPROOF MATERIALS FOR PENETRATIONS REQUIRING A FIRE RATED SEAL. REFER TO CUTTING AND PATCHING NOTES UNDER SECTION 1 — GENERAL USES THE BUILDING OWNERS APPROVED IF ANY ROOFIOP WORK IS TO BE PERFORMED, THE CONTRACTOR SHALL USE THE BUILDING OWNERS APPROVED.

IF ANY ROOFIND WORK IS TO BE PERFORMED, THE CONTRACTOR SPALL USE THE BUILDING OWNERS APPROVED ROOFING CONTRACTOR TO PREVENT VOIDING ANY POSITING ROOFING WARRANTES. ANY DAMAGE TO THE EXISTING ROOFING MEMBERANE SHALL BE REPARED IMMEDIATELY TO AVOID MOISTURE INTRUSTON INTO THE BUILDING SHELL GENERAL: PROVIDE ALL CUTTING, BOBLILING FINING AND PATCHING RECESSING FOR ACCOUNTENING THE WORK THIS INCLUDES REMOVAL AND REPLICEMENT OF DEFECTIVE WORK AND WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

REPARES REPAR ANY AND ALL DAMAGE TO WORK OF OTHER TRADES CAUSED BY CUTTING AND PATCHING OPERATIONS,

USING SKILLED MECHANICS OF THE TROOS INVOLVED.

DO NOT CUIT MAJOR STRUCTURAL ELEMENTS WITHOUT APPROVAL. PATCHING SHALL BE OF QUALITY EQUAL TO AND OF

CONDUCTORS

USE 98% CONDUCTIVITY COPPER WITH TYPE XHHW-2 INSULATION, 600 VOLT, COLOR COOED. USE SOUD CONDUCTORS

FOR WIRE UP TO AND INCLUDING NO. 8 AWG, STRANDED CONDUCTORS FOR WIRE LARGER THAN NO. 8 AWG. USE

PRESSURE—TYPE INSULATED TWIST—ON CONNECTORS FOR NO. 10 AWG AND SMALLER, SOLDERLESS MECHANICAL FRAINAL LUCS FOR NO. 8 AWG AND LARGER, ALUMINUM CONDUCTORS SHALL NOT BE USED.

BX MC OR ROMEX CABLE SHALL BE PERMITTED.

NO BK, NC OR ROMEX CABLE SHALL BE PERMITTED.

EACH END OF EVERY POWER, GROUNDING AND TI CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAP WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS. ALL THE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL. REDUCE SHAPE PECK.

ALL CONDUIT SIZES SPECIFIED IN THIS DOCUMENT WERE DONE SO TAKING INTO ACCOUNT THE USE OF COPPER

11.13 NOUVER STSTEMS / CONDUIT
11.0 ROCKEY STSTEMS / CONDUIT SHALL BE SCHEDULE 40 PVC CONDUIT. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC CONDUIT BEFORE RISING ABOVE GRADE OR CONDUIT OR SCHEDULE 80 PVC CONDUIT BEFORE RISING ABOVE GRADE OR CONCRETE SLAB. EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL (RSS) CONDUIT OR SCHEDULE 80 PVC CONDUIT.

EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL (RGS) CONDUIT OR SCHEDULE 80 PVC CONDUIT.

GRS CONDUITS, WHEN SPECIFIED, SHALL MEET UI_6 FOR GALVANIZED STEEL ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT.

ELECTRICAL METALLIC TUBING (EMT) OR RIGID, NONMETALLIC CONDUIT (RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 40) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.

ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (RIGID PVC SCHEDULE 40) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS. CONCEALED INDOOR LOCATIONS

LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE

LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (UQUID-TITE FLEX) SHALL BE USED MUDDINS AND CUTIOURS, MITCH.
MERATION OCCURS OR FLEXIBILITY IS NEEDED.
PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS — 200 LB.
TEST POLYETHICABLE CORD.
ALL CONDUIT BENDS SHALL BE MINIMUM OF 24 INCH RADIUS.
ALL METALLIC RACEWAYS SHALL BE GOUNDED PER NEC.
THE CONTROTOR SHALL FIELD VERTEY THE BEST AND LEAST DISRUPTIVE ROUTING OF CONDUITS, CABLE TRAYS AND
DUCTS. CONDUIT ROUTING IS SHOWN AS A GUIDE ONLY, ACTUAL CONDUIT PLACEMENT IS TO BE DONE IN A

EQUIPMENT INCOMING ERPLACER SHALL BE RATED FOR STANDARD ALC. RATING HIGHER THAN INCOMING EQUIPMENT ALC. ALL EQUIPMENT SHALL BE BRACED FOR STANDARD ALLC. RATING HIGHER THAN INCOMING FROM UTILITY CO. THE CONTRACTOR SHALL PROVIDE AN ITEMIZED CERTIFICATION TO THE CARRIER OF ALL EQUIPMENT AND RELATED HARDWARE, SPECIFIED TO BE PURCHASED AND INSTALLED BY THE CONTRACTOR, WHERE ORDERED WITHIN 24 HRS OF

THE NOTICE TO PROCEED.
ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED PLASTIC LABELS. ALL EQUIPMENT SHALL
BE LABELED WITH ITS VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACTLY RATING
AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
METAL RECEPTIOLE, SWITCH AND DEVICE BOXES SHALL BE GLAVANIZED, EPOXY-COATED OR NON-CORRODING; SHALL
MEET OR EXCEED UL 514A AND NEMA OS 1; AND BE RATED NEMA 1 (OR BETTER) INDOORS OR

WEATHER-PROTECTED (WP OR BETTER) OUTDOORS. NONHIFTALLIC RECEPTACLE SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2, AND BE RATED NEMA 1 OR RETTER) INDOORS OR WEATHER-PROTECTED (WP OR BETTER) OUTDOORS

ON BELIEV MILLOUS ON MEXITARY TWO CLED VIEW ON BELIEVY DURBONS.

THIS DEVICES FOR AC POWER SHALL BE INSTALLED IN ALL EXISTING FACILITIES THAT ARE MISSING TVSS DEVICES OR HAVE UNSUITABLE TVSS DEVICES.

THE AC POWER COMMON MODE SURGE SUPPRESSOR SHALL BE CONNECTED TO THE COMMERCIAL POWER INPUT SIDE.

TO THE MANUAL TRANSFER SWITCH.

IN MARKETS WITH LICHTNING ZONE > OR = TO 4, RF TVSS DEVICE SHALL BE INSTALLED AT THE ENTRANCE TO THE SHELTER OR AS CLOSE AS POSSIBLE TO THE BITS CABINET FOR OUTDOOR SITES, TO PROTECT AGAINST LICHTNING AND

tyss device shall be installed at all sites between the Niu and the BTS.

2.— Grounding Grounding Materials and Notes
2.1 General Grounding Materials and Notes
The Subcontractor Shall Verry that the system is effectively grounded, meets nec article 250 requirements, is acceptable to the local lithly and the local authority hanning jurisdiction, and meets the carbier's electrical and grounding specifications. Following completion of work, conduct ground TEST OWNER'S REPRESENTATIVE WILL INSPECT CADWELDS AND REVIEW GROUND TEST PRIOR TO BURIAL USE CLEAN SAND AND CLAY BACKFILL FOR BURIED GROUND CONDUCTORS.

ALL DETAILS SHOWN ARE DIAGRAMMATICAL. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO

NOTIFY CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING THE GROUND SYSTEM DUE TO SITE/SOIL GROUND CONNECTIONS: WHERE GROUND CONNECTIONS ARE MADE, THE CONTACT POINTS SHALL BE THOROUGHLY

GROUND CONNECTIONS: WHERE GROUND CONNECTIONS ARE MUNE, HE CONNECT HOWITS SHALL BE HEROCOPIC!

CENNED AND MADE FREE OF FOREIGN MATERIAL SUCH AS PAINT, GALVANIZATION, AND CORROSION, TO ENSURE

ADEQUATE BOND. REFER TO EXCHIFERIAL WELD, LUSS, AND ANTI-COXDATION COMPOUND NOTES FOR FURTHER DETAILS.

GROUND WIRE OUTSIDE, UNDERGROUND, INNIHUM NO. 2 AMERICAN WIRE GAUGE (MINE DATE, SUCH, AMINEALD,

TINNED COPPER WIRE (STOW) BUT SIZED IN ACCORDANCE WITH NEC TABLE 250.66. UNDER NO CIRCUSTANCES IS

STRANGED WIRE ACCEPTABLE. ALL BUIRED WERE SHALL BE INSTALLED TO MEET MINIHUM BOND PADIUS. SHAPP BENDS

AND KINIS ARE INVEX ACCEPTABLE. WHEN ANY GROUNDING OR BONDING WIRE RINS THROUGH CONCRETE, IT SHALL

AND KINIS ARE INVEX ACCEPTABLE. WHEN ANY GROUNDING OR BONDING WIRE RINS THROUGH CONCRETE, IT SHALL BE SLEDVED IN PVC. GROUND WIRES SHALL NOT BE INSTALLED OR ROUTED THROUGH HOLES IN ANY METAL OBJECTS

OR SUPPORTS.

GROUND WIRE — INSIDE: WIRE SHALL BE NO. 2 AWG THINN OR THINN—2, CLASS B STRANDED COPPER CABLE RATED FOR 90' WC (WET AND DRY) OPERATION, GREEN INSULATED (A HIGH-STRAND COUNT WIRE IS PREFERRED). BURIED GROUND RING: THE EQUIPMENT/SHEITER PAD OR PLATFORM SHALL HAVE A BURIED GROUND RING (BGR) THAT CONSISTS OF A RING OF RO. 2 AWG BARE, SOLID, ANNEALDED, TINNED COPPER WIRE AND EXTRIPENDED GROUND ROOS. THE BGR DESIGN SHOULD RESULT IN 10 OHMS OR LESS WITH SOIL RESISTINTIES OF UP TO 50,000 GROUND RODS. THE BOR DESIGN SHOULD RESULT IN 10 CHINS OR LESS WITH 201 RESISTIMITES OF UP TO 50,000 CHIN—CLA. SOIL RESISTIMITES HIGHER THAN THIS WILL RECORD REPORT SHE RESISTIMITES OF UP TO 50,000 CROUND RESISTIMITES HIGHER THAN THIS WILL RECORD REPORT SHOULD ROD ATTACHMENTS, AND GROUND ROD ATTACHMENTS, AND GROUND LEADS FROM EQUIPMENT, TOWER, AND COAX SHALL BE MADE BY AN EXPITEIRATION WILL THE GROUND RING SHALL BE RETWEEN A MINIMUM OF TWO FEET FROM THE SHELTER FOUNDATION, BIS PAD, OR PLATFORM PERIMETER AT A MINIMUM DEPTH OF TWO FEET, SIX INCLES, AND WITH NO BEAD HAWNS A RADIUS OF LESS THAN TWO FEET. THE TRENCH SHALL BE DUG 6 INCHES BELOW THE REQUIRED WIRE DEPTH. GROUND RODS SHALL BE, MITALLED, AT A MINIMUM, AT EACH CORNER OF THE BOR, OR PER NIPPA 70, ARTICLE 250—56. PERKY EFFORT SHALL BE MADE TO DESIGNET THAT ALL GROUND PATHS TO THE BOR ARE ARE HELDED SO THAT ANY POTENTIAL DISCHAREC OF FELECTRICITY WILL BE DOWNWARD, OR, IF NECESSARY, FLAT, AT NO POINT SHOULD ANY GROUND PATH CO LIPEARD.

FXOTHERMIC WELDS SHALL BE CADWELD A RECISTERED TRADEMARK OF ERICO PRODUCTS. INC.

EQUIVALENT.

9. GROUND ROD: 5/8" X 8-FEET (MINIMUM LENGTH) STEEL WITH PURE COPPER JACKET NOT LESS THAN 0.0012 INCHES THICK. CROUND RODS SHALL BE SPACED NO GREATER THAN 15 FT O.C. AND NO LESS THAN 6 FT. O.C.

10. GROUND ROD COUPLING: 5/8" GROUND ROD COUPLING MADE OF THE SAME MATERIAL AS THE GROUND ROD TO PREVEND DISSIMULAR METAL HIGH OXIDATION POINTS.

11. CHEMICAL GROUND ROD: COMPRISED OF A HOLLOW COPPER GROUND ROD, A GROUND TEST WELL, A 4'-0
EXCITHERMICALLY WELDED PIGTAL AND CONDUCTIVE BUCKFILL MATERIAL. THE CHEMICAL GROUND ELECTRODE SHALL BE AADE OF A MINIMIM 2 INCH LD. TYPF K COPPER TUBE WITH A MINIMUM WALL THICKNESS OF 0.083 INCH AND SHALL

MADE OF A MINIMUM 2 NICH 1D. TYPE K COPPER TUSE WITH A MINIMUM WALL THICKNESS OF O.83 INCH AND SHALL BE A MINIMUM OF 8 FEET IN LEWISTH. THE CHEMICAL GROUND FOO COPPER TUSE SHALL BE FILLED WITH NON-HAZAROOUS METALLE SALTS. CHEMICAL GROUND ROO SHALL BE UL LISTED. IN STRUKTIONS WHERE DRILLING VERTICALLY IS TOO BIFFICULT OR COSTLY, HORGIVATINE L-SHAPE CHEMICAL GROUND ROOS ARE ACCEPTIBABLE. GROUND BARS: GROUND BARS SHALL BE MANUFACTURED SHACLTY AS SPECIFIED. NO DEVARTIONS ARE ALLOWED, DIMENSIONS SHALL BE ACCURATE WITHIN 1/32 INCH. HOLE DIMETERS SHALL BE ACCURATE WITHIN 1/64 INCH. BARS SHALL BE 1/4 INCH THEK SOLD ELECTRICAL GRADE COPPER MANUFACTURED BY HARGER OR APPROVED EQUAL GROUND BARS SHALL NOT BE FARRICATED OR MODIFIED IN THE FIELD. COXANAL CHALLE GROUND BARS SHOULD BE MECHANICALLY CONNECTED TO THE TOWER STRUCTURAL STEEL HOWEVER, DO NOT DRILL HOLES OR USE DOTHLERING WELDS TO CONNECT GROUND LEADS TO A STEEL TOWER EXCEPT ON STEEL TABS OR FLANGES SPECIFICALLY DESIGNED FOR THAT PURPOSE HOLES AND/OR EXOTHERIANC WELDING CAN NEGATIFYLY MIPACT THE STRUCTURAL INTEGRITY OF THE TOWER AND INCREASE CHANGES OF CORROGSON.

13. INSULATORS: POLYESTER FIBERGLASS, 15 KV MINIMUM DIELECTRIC STRENGTH, FLAME RESISTANT PER UL 94 VO

CLASSIFICATION.

CLUPS: WHEN SECURING ANY GROUND WIRES, SOLD OR STRANDED, INSULATED OR UNINSULATED, NEVER USE ANY CLUPS OR OTHER DEVICES THAT ARE COMDUCTIVE AND FORM A CLOSED LOOP. METALLIC CLIPS ARE ACCEPTABLE IF THEY DO NOT FORM A CLOSED LOOP.

GROUND CLAMP. BURNDY GAR STYLE UL CLAMP WITH TWO—HOLE PROVISIONS FOR LONG BARREL MULTIPLE CRIMP

TWO-HOLF LUGS

IWO-HOLE LUGS.

COAX GROUNDING KIT: COAX GROUND KITS SHALL BE FROM THE SAME MANUFACTURER AS THE COAX. GROUND KITS COAX GROUNDING KIT: COAX GROUND KITS SHALL BE FROM THE SAME MANUFACTURER AS THE COAX. GROUND KITS SHALL BE SOLID STRAP TYPE WITH NO. 6 AWG WIRE AND 2—HOLE COMPRESSION CRIMPED LIUS (INSTALLED USING THE PROPER ILL TOOL AND CIRCOUNFERENTIAL HEXAGON DIE). BRAUD OR HOSE CLAMP TYPE SHALL NOT BE USED. SOLID COPPER STRAP TYPE WITH SINGLE HOLE LIUSS SHALL NOT BE USED. ALL COAX CABLES ARE TO BE GROUNDED AT THEIR SECTOR COB, THE COLLECTOR COB, MIDPOINT COB (IF REQUIRED), BOTTON COB, WAVEGUIGE BRIDGE COB (IF REQUIRED), AND AT THE SHELER WALL A MIDPOINT COB IS ONLY REQUIRED IF THE COAX LINGTH EXCREDS 200'. A WAVEGUIGE BRIDGE COB IS ONLY REQUIRED WHEN THE LENGTH OF CABLE (FROM TOWER TO EQUIPMENT) IS GREATER TANAN 15 ETC.

COFING: ALL COAX GROUND KITS SHALL BE WEATHERPROOFED. ONLY GROUND KITS APPROVED BY THE

WEATHERPROOFING: ALL COAX GROUND KITS SHALL BE WEATHERPROOFED. ONLY GROUND KITS APPROVED BY THE COAX MANUFACTURES SHALL BE USED.

METALLIC CONDUIT: MAY GROUND WIRES, SOLD OR STRANDED, THAT PASS THROUGH CONDUIT, METALLIC SLEEVE, OR CASLE COVER, SHALL BE BONDED AT BOTH FINDS.

AITERINA GROUNDING — ALL ANTENNAS (INCLUDING THE GPS ANTENNAS) ARE GROUNDED BY THEIR MOUNTS/MASTS AND BY THE GROUND KITS ON THE COAXIAL CABLE CONNECTED TO THE COAX GROUND BIASS. DO NOT INSTALL SEPARATE ANTENNA GROUND CONNECTED TO THE COAX GROUND BIASS. DO NOT INSTALL SEPARATE INSTALLED AND CONNECTED TO THE COAX GROUND BIASS. DO NOT INSTALL SEPARATE INSTALLED AND CONNECTED TO THE COAX GROUND BIAS AT THE DID OF THE WAVEQUIDE BRIDGE.

MICROWAVE ATTERNA GROUNDING: TOWERS THAT HAVE MICROWAVE ANTENNAS SHALL HAVE GROUND KITS AND A COAX GROUND BAR RISTALLED BELOW AT EACH DISH ELEVATION. INSTALL GROUND KITS ON ALL MICROWAVE LINES AT ALL OFFICE AND A COAXING BAR COUNTED BAY BAY COUNTED BAY C

OTHER COAX GROUND BAR LOCATIONS. waveguide bridge grounding: bond the steel supporting structure for the waveguide bridge to the bgr

MAYESUALDE BRUSE CHOUNDAINS: BOTH THE SILEPOINT STRUCTURE WITH A NO. 2 AWG BTOW CONDUCTOR AND EXOTHERMIC WELDS AT 6 NICHES ABOVE GRADE OR FOUNDATION, WHICHEVER IS HIGHER COLD—GALY AFTER EXOTHERMICALLY WELD OTHER BEING CAUGHE BROYS STRUCTURE BROYS STRUCTURE BROYS STRUCTURE BROYS STRUCTURE WITH SPLOCE FLATES OF SMALAR METAL OR WITH NO. 2 AWG BTOW OR \$2 AWG STRANDED INSULATED WIRE, BONDING EACH SECTION TOGETHER AT EACH

22 NOT USED.

NOT LISED

. NOT USED.

AMT-DIDATION COMPOUND: ANTI-OXIDATION COMPOUND SHALL BE THOMAS AND BETTS KOPR-SHIELD (TM OF JET LUBE, INC.) OR BURNDY PENETROX — E. ANTI-OXIDATION COMPOUND SHALL BE APPLIED BETWEEN LUG AND GROUND BAR ONLY. DO NOT COMEN THE LUG.

SERVICE DISCONNECT GROUNDING: IF THERE IS A SERVICE DISCONNECT SEPARATE FROM THE PPC MAIN CIRCUIT BREAKERS, THE NEUTRAL TO GROUND BOND SHALL BE MADE AT THE SERVICE DISCONNECT SWITCH LOCATED SEPARATELY AND ON THE SUPPLY SIZE OF THE PPC CABRIT AND NO NEUTRAL TO GROUND SHOULD BE IN THE PPC. IT IS CRITICAL THAT ONLY ONE NEUTRAL TO GROUND BOND BE MADE AT THE SERVICE ENTRANCE

EQUIPMENT AS DEFINED BY THE NATIONAL ELECTRIC CODE.

12.3 NODOOR EQUIPMENT/SHELTER SPECIFIC NOTES:

1. INDOOR EQUIPMENT: SITES WHERE BTS EQUIPMENT IS LOCATED INDOORS SHALL INCLUDE THE INSTALLATION ON AN INTEROR GOUND RING (HALD) INSTALLED APPROXIMATELY 6 INCHES BELOW THE CEILING OR 8 FEET ABOVE THE FINISHED FLOOR, WHICHEVER IS LOWER. THE INTEROR GROUND HALD CABLE SHALL BE A MINIBULM OF NO. 2 ANG, STRANDED COPPER WITH MOSITURE RESISTANT GREEN INSULATION. THE PURPOSE OF THE INTEROR HALD GROUND RING IS PROVIDE A CONVENIENT GROUNDING AND BONDING POINT FOR ALL MISCELLANEOUS, METALLIC OBJECTS TO REDUCE IS PROVUE A COMPRIENT GROUNDING AND BONDING POINT FOR ALL MISCELLARBOUS METALLE OBJECTS 10 NELUCE STEP AND TOUGH POTENTIAL ALL MISCELLARBOUS METALLE OBJECTS INCLUDING METAL DOOR FRAMES, TOUGH POTENTIAL ALL MISCELLARBOUS METALLE OBJECTS AND EASTERN STANDS, ETC. SYALL BE BONDED TO THE INTERFOR GROUND HALD CONDUCTOR SHALL BE BONDED TO THE MITERIOR MEB. THE INTERMAL MEB SHALL BE CONNECTED TO THE EQUIPMENT BOR USING 2 MO. 2 AWG BITCW GROUND LEADS. THE STOW SHALL PENETRATE THE WALL OR FOUNDATION OF THE SHELTER IN TWO SEPARATE HOLES. MHENEVER GROUND LEADS PONETRATE CONCRETE. THEY SHALL BE PROTECTED BY PYC CONDUIT. SEAL OPENING AFTER INSTALLATION. GROUND CONDUCTORS ON EXTERNE WALL OF SHELTER SHALL BE ENCASED IN 3/4" PYC CONDUIT TO

RF AND TOWER APPURTENANCE INSTALLATION RELATED NOTES

13 — RF AND TOMER APPURIENMENT. INSTAUDING THE TRANSPORT OF RECEIVING, INSTALLING, TESTING, AND MATERIALS NECESSARY FOR RECEIVING, INSTALLING, TESTING, AND GENERAL PROVIDE ALL LIBOR, EQUIPMENT, AND MATERIALS NECESSARY FOR RECEIVING, INSTALLING, TESTING, AND THE ANTENNA TO THE CONNECTIONS AT THE BUSE TRANSMISSION SYSTEM (SITTEMAN). AND THE CONNECTIONS AT THE BUSE TRANSMISSION SYSTEM (SITTEMAN). ADJUSTING ATTEMA CABLES FROM THE AITEMA TO THE CONNECTIONS AT THE BASE TRANSLASSON SYSTEM (BTS).
THIS SHALL INCLUDE ALL EQUIPMENT SHOWN OR REQUIRED FOR A COMPLETE OFFRATING SYSTEM. ANTENNA, ANTENNA
CABLES, CONNECTIONS, AND FITTING SHALL BE THIRD PARTY FURNISHED COMPROMENTS AS SHOWN ON THE BILL OF

CABLE 1/2" 7/8"

COAXIAL CABLE LENGTHS SHALL BE FIELD MEASURED. INSTALLER SHALL NOTIFY CARRIER PRIOR TO PURCHASE OF CABLE OF THE OVERALL LENGTH REQUIRED.

PURCHASE OF CABLE OF THE OVERALL LENGTH RECURRED.

COXONL CABLE TYPE AND DUARTER SHALL BE VERRIED WITH CARRIER.

COXONL CABLES SHALL BE LABELED IN ACCORDANCE WITH CARRIER ELECTRICAL MATERIALS AND

METHODS SPECIFICATIONS. ALL MAIN CABLES WILL BE COLOR CODED AT FOUR LOCATIONS. A) AT

ANTENNA PRIOR TO JUMPER, B) AT THE BOTTOM OF THE TOWER, C) EXTENSE PART OF THE WAVE

GUIDE ENTRY PORT (AT THE SHELTER/CABINET WALL), D) INTEROR OF THE SHELTER/CABINET.

PROVIDE AT LEAST 6" OF SLOCK IN THE MAIN COXONL CABLES AT THE ANTENNA END TO PROVIDE

FOR PHILIPSE CONNECTION PERD PLACULANT.

FOR FLITURE COMMECTOR REPLACEMENT

FOR POURCE CONNECTOR REPORTED IN:
INSTALL CONNECTORS TO COAXIAL CABLE AT BOTH ENDS (ANTENNA END AND BTS LOCATION).
UPON SUCCESSFUL COMPLETION OF THE SWEEP TEST, THE CONTRACTOR SHALL PROVIDE A

UPON SUCCESSFUL COMPLETION OF THE SWEEP 1631, 1116.
WEATHERMOST SEAL ON THE COAX CORES.
THE MINIMUM BEXINDIN PROJUS FOR ALL ANTENNA CABLES SMALL BE AS SHOWN BELOW OR PER THE MANUFACTURER, WHICHEVER IS MORE CONSERVATIVE.

IN AIR OR CABLE TRAY IN CONDUIT

CABLES SHALL BE INSTALLED WITH THE MINIMUM NUMBER OF BENOS. CABLE SHALL NOT BE LEFT UNTERMINATED IN THE FIELD. GROUNDING

ALL MAIN CABLES WILL BE GROUNDED AT: A) THE ANTENNA, B) MIDDLE OF THE CABLE RUN IF OVER 20°, C) PRIOR TO ENTERING COUPMENT SHELTER/CABINET (MIRINI 1' OF ENTRY).

GROUNDING KITS — AFTER RISTALATION OF GROUND STRAPS, THE CONNECTIONS SHALL BE MADE
WEATHER TIGHT USING WEATHERPROOF KITS AS IDENTIFIED. GROUND PIGTALS SHALL BE BROGET
OUT IN THE DOWNWARD DIRECTION FROM THE CONNECTION TO THE ANTENNA CABLE WITHOUT ANY
SHARP BENDS (MINIMUM RADIUS 10") AND CONNECTION SHALL BE MADE TO GROUNDING SYSTEM.

13.2 ANTENNA RECUIREMENTS:

1. AZIMUTHS ARE ORIENTED CLOCKWISE FROM TRUE NORTH.

2. CONTRACTOR SHALL VERIFY ANTENNA TYPE, AZIMUTHS, AND DOWNTILTS WITH THE CARRIER PRIOR TO CONSTRUCTION.

3. THE MINIMUM DISH RND CENTER HEIGHT ABOVE THE ROOF SHALL BE 6"-8".

3 TOWER CLUBBING SAFELY CUIDELINES
TOWER CLUBBING SAFELY CUIDELINES
TOWER CLUBBING SAFELY CUIDELINES
TOWER CLUBBING THAVE COMPLETED A NATE CERTIFIED CLUBBING TRAINING COURSE PER CONTRACT SPECIFICATIONS
PRIOR TO WORK ON THIS STRUCTURE.
COMPRIOR MUST COMPLY WHY THE STANDARD "RF POWER AND LOCKOUT/TAGOUT" PROCEDURES BEFORE ALLOWING

TOWER CLIMBERS WILL NOT BE ALLOWED TO ACCESS TOWER IN ADVERSE WEATHER CONDITIONS, INCLUDING HIGH WINDS,

LICHTINIC, RAIN, SNOW ICE OR DURING NIGHT TIME.

CONTRACTOR OR CLIMBERS SHALL IMMEDIATELY REPORT ANY CLIMBING EQUIPMENT OR CONDITIONS JUDGED INADEQUATE. EMERGENCY NUMBERS SHALL BE POSTED ON SITE AND ADVERTIZED TO CLIMBERS BEFORE THE BEGINNING OF THE

6. SAFETY MEETINGS SHALL TAKE PLACE EVERY MORNING BEFORE THE WORK DAY BEGINS.

14 — ROOFTOP
14.1 GENERAL

GENERAL CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SHORING, BRACING, PROVIDING LATERAL SUPPORT, AND FOR MANIFAMING THE INTEGRITY OF THE EXISTING STRUCTURE AND ROOFING MEMBRANE DURING ALL PHASES OF THE CONSTRUCTION.

ROOF PITCH POCKET, IF USED, ARE TO BE FILLED, SEALED AND MAINTAINED WITH FLEXIBLE MATERIAL TO BE COMPARIBLE WITH DISTING ROOFING MATERIAL AND ABLE TO ACCOMMODATE LATERAL DISPLACEMENT OF 1% INCH AXIMUM IN EACH DIRECTION.

MAXIMUM IN EACH DIRECTION.

IF REQUIRED, THE GENERAL CONTRACTOR SHALL USE THE BUILDING OWNER'S APPROVED ROOFING CONTRACTOR TO PREVENT VOIDING MAY EXSTING ROOFING WARRANTIES. ANY DAMAGE TO THE EXISTING ROOFING MEMBRANE SHALL BE REPAIRED IMMEDIATELY TO AVOID MOISTURE INTRUSION IN THE BUILDING SHELL.

YOLD ANY PENETRATION OF EXISTING ROOF SLAR LING.

Avoid any perelevation of existing from Subb, Unio.

NO Staging of Materials and Equipment is permitted on the Roof.

The Location of existing building Roof, porthouse Walls, perintouse stabs and new equipment shown in these drawings are not exact and are not besed on surveyed information. All dimensions shall be field verified by field measurement from to groening any material for this project.

ANY DAMAGE DUE TO CONSTRUCTION ACTIVITIES, DONE TO ANY EXISTING ROOFING SURFACE SHALL BE REPAIRED TO and diamage due to construction activities, durie to any existing records source, sault be respained to Match Equation stall verify the Load generated from the equipment is directly transferred through Bearing walls or columns to the foundation of the building, the engineer shall be notified if this

CONTRACTOR SHALL PROMDE TEMPORARY FALL PROTECTION MEASURES IN THE MONITY OF THE WORK.
THE SHELTER AND/OR EQUIPMENT SHALL BE PAINTED TO THE MATCH EXISTING BUILDING COLOR IF THIS IS

PECHEREN BY THE BUILDING OWNER REQUIRED BY THE BUILDING UNIVER. A STRUCTURAL ANALYSIS HAS BEEN PERFORMED FOR THE LOAD CAPACITY OF THE NEW PLATFORM OR EXISTING PLATFORM EXTENSION AT THIS SITE. THE PLATFORM HAS ADEQUATE CAPACITY FOR THE EQUIPMENT SHOWN IN THIS

urawing sel. Submit for approval a list of the procedures proposed to protect existing elevator from Harm

SUBMIT FOR APPROVAL A LIST OF THE PROCEDURES PROPOSED TO PROTECT EXISTING ELEVATOR FROM HARM DURING USE PROTECT CAB, ENTERANCES AND ADALECHT SUBFRACES FROM DAMAGE. DO NOT OVERLOAD ELEVATOR. MAINTAIN ELEVATOR DURING USE AND RETURN OT ORIGINAL CONDITION AT COMPLETION. CONSTRUCTION PERSONNEL MAY USE EXISTING STAIRS AND CORRIDORS FOR CONSTRUCTION PURPOSES. PROTECT STAIR AND ACCESS WAYS AND RETURN TO ORIGINAL CONDITION AT COMPLETION. COORDINATE WITH BUILDING MAINTENANCE OF WASHROOM FACILITY.

PROVIDE PROPER TEMPORARY PROTECTION OF HIGH TRAFFIC AREAS.

20 — SITE SPECIFIC INVISC.

20.1 GENERAL

1. CONSTRUCTION INCLUDES:

• INSTALLATION OF COMMUNICATION EQUIPMENT

• ANTENNAS AND MOUNT INSTALLATION ON EXISTING STRUCTURE

£ 2. THE PROCESSIONALS INVOLVED ON THIS PROJECT ARE AS FOLLOWS:

• PNGINEER:

• AN GOLUTIONS, INC.

300 CROWN OWA CENTRE DRIVE

LEGEND AND ABBREVIATIONS
ALL AUTHORITY HAVING JURISDICTION AMERICAN WIRE GAUGE BARE COPPER WIRE
BASE TRANSMISSION SYSTEM
COAX ISOLATED GROUND BAR, EXTERNAL ELECTRICAL METALLIC TUBING GLOBAL POSITIONING SYSTEM NASTER SOLUTED GROUND BAR
NATIONAL ELECTRIC CODE, LATEST ADOPTED EDITION
POWER PROTECTION CABINET

POLY VINYL CHLORIDE RIGID GALVANIZED STEEL

at&t

AT&T MOBILITY CORPORATION 5201 CONGRESS AVENUE 1ST FLOOR - AT&T OFFICE BOCA RATON, FL 33487



NSORO MASTEC LLC 6000 BROKEN SOUND PARKWAY NW BOCA RATON, FL 33487 PHONE: (561) 988-5830



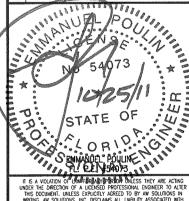
SH

DRAWN RY

300 CROWN OAK CENTRE DRIVE LONGWOOD, FL 32750 TEL: 407.260.023 FAX: 407.260.0749 FL COA#: 26983

CHECKED BY: JD

0		ISSUED FOR CONSTRUCTION
С		ISSUED FOR REVIEW
В		ISSUED FOR REVIEW
Α	04/08/11	ISSUED FOR REVIEW
rev	DATE	DESCRIPTION
	11111	WAL POIL



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FL71 SITE#: SITE NAME: FI 71

5555 REGENCY LAKES BLVD ADDRESS: POMPANO BEACH, FL 33073

FA #:

SITE TYPE: TENANT IMPROVEMENT

SHEET TITLE:

SPECIFICATIONS

SHFET NUMBER:

SP2