

PRESENTED TO:

THE CITY OF NEW YORK DEPARTMENT OF INFORMATION TECHNOLOGY AND TELECOMMUNICATIONS

RESPONSE TO THE DOITT REQUEST FOR PROPOSALS FOR FRANCHISES FOR THE INSTALLATION AND USE OF TELECOMMUNICATIONS EQUIPMENT AND FACILITIES, INCLUDING BASE STATIONS AND ACCESS POINT FACILITIES, ON CITY OWNED STREET LIGHT POLES AND TRAFFIC LIGHT POLES, AND CERTAIN UTILITY POLES AND OTHER FACILITIES LOCATED ON CITY STREETS, IN CONNECTION WITH THE PROVISION OF MOBILE TELECOMMUNICATIONS SERVICES

Submitted by: Transmission Network NY, LLC

Prepared by: Joseph Sforza

VP, Network Deployment - Mobilitie, LLC

mobilitie.com



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REQUEST FOR PROPOSALS

FOR FRANCHISES FOR THE INSTALLATION AND USE OF TELECOMMUNICATIONS EQUIPMENT AND FACILITIES, INCLUDING BASE STATIONS AND ACCESS POINT FACILITIES, ON CITY-OWNED STREET LIGHT POLES AND TRAFFIC LIGHT POLES, AND CERTAIN UTILITY POLES AND OTHER FACILITIES LOCATED ON CITY STREETS, IN CONNECTION WITH THE PROVISION OF MOBILE TELECOMMUNICATIONS SERVICES

EXHIBIT D AFFIRMATION

The undersigned proposer or bidder affirms and declares that said proposer or bidder is not in arrears to the City of New York upon debt, contract, or taxes and is not a defaulter, as surety or otherwise, upon obligation to the City of New York, and has not been declared not responsible, or disqualified, by any agency of the City of New York, nor is there any proceeding pending relating to the responsibility or qualification of the proposer or bidder to receive public contracts.

		Proposer or Bidder on Network NY, LLC	;	
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City_N	ewpor	rt Beach	State CA	_ Zip Code _92660
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I	x C -	Corporation EMPLOYER IDENTIF	ICATION NUMBER	_
Ву	_			
-	Signat CEO	ure		
-	Title			

If a corporation, place seal here:

Must be signed by an officer or duly authorized representative.

^{*} Under the Federal Privacy Act the furnishing of Social Security Numbers by bidders on City contracts is voluntary. Failure to provide a Social Security Number will not result in a bidder's disqualification. Social Security Numbers will be used to identify bidders, proposers, or vendors to ensure their compliance with laws, to assist the City in enforcement of laws as well as to provide the City a means of identifying of businesses which seek City contracts.

BACKGROUND

Mobilitie, LLC ("Mobilitie 1") has owned and controlled since 2007 the Mobile Telecommunications Franchise (the "Mobilitie 1 Franchise") dated as of July 15, 2004 between the City and Nextel, as assigned to and assumed by Mobilitie 1. Mobilitie 1 was also the assignee in 2016 of another Existing Franchise dated as of January 4, 2012 between the City and Xchange Telecom Corp., as assigned to and assumed by Mobilitie 1. Mobilitie 1 recently assigned such Existing Franchise (the "Mobilitie 2 Franchise") to Transmission Network NY, LLC ("Mobilitie 2"), a permitted assignee under Section 9.6(b) of the Mobilitie 2 Franchise. This Proposal (the "Mobilitie 2 Proposal") seeks to renew through the RFP and the "Resulting Franchise" process the Mobilitie 2 Franchise. A fully identical proposal is also being submitted to seek a Resulting Franchise for the Mobilitie 1 Franchise, as contemplated by the RFP.

Consequently, the "Existing Franchisees" of Mobilitie 1 and Mobilitie 2 are referred to collectively throughout the two identical proposals as **Mobilitie**, **except** in (i) the compensation proposal and (ii) the exhibits 12, 13, 14 and 15 of the Legal Credentials and Authorizations section, where they will be separately broken out as Mobilitie 1 and Mobilitie 2.

If Mobilitie 2 becomes a "Resulting Franchisee" for its Mobilitie 2 Franchise, it agrees to surrender its existing Mobilitie 2 Franchise. Mobilitie 1 makes the same statement in the Mobilitie 1 Proposal.

Mobilitie is the largest privately-held telecommunications infrastructure company in the United States. As a global provider of complete wireless solutions, Mobilitie helps people stay connected on their mobile devices wherever they are. We fund, deploy, and operate next-generation infrastructure, enabling both robust 4G LTE coverage and upcoming 5G services and speeds. Our wireless infrastructure, including communication towers, indoor and outdoor neutral host DAS networks, small cells, and Wi-Fi networks, help deliver wireless connectivity where it is needed. Our. Of particular relevance to New York City, Mobilitie partners with cities and municipalities across the country to deploy next-generation small cell sites and other infrastructure, providing local residents with enhanced mobile connectivity and wireless broadband access to create "smart cities". Our high-density wireless infrastructure is designed to enable the richest, most



interactive mobile experiences for users including real-time video streaming, location-based services, social media, and other mobile applications.

Mobilitie understands its obligations under the existing Mobilitie Franchises and has acted since 2007 as a responsible and responsive New York City franchisee. Mobilitie understands that as a franchisee it has a higher standard than just being a good corporate citizen and that it must act as trustee of New York City assets and Rights of Way.

Finally, Mobilitie acknowledges the City's five principles for allowing use of its physical assets: performance, affordability, equity, choice and privacy. We believe that Mobilitie's deployments to date throughout the City have helped to move towards each of those principles.



TECHNICAL

1. Statement of Services

As a neutral host provider, Mobilitie is at the leading edge of deploying multi-carrier antennas, shared equipment and backhaul as intelligent infrastructure to provide next generation wireless services, including wireless broadband access. In New York City, Mobilitie is in active development of roadmaps with wireless carriers, OEMs, antenna manufacturers, and other fiber providers for multi-carrier and smart city solutions while being respectful of the NYC Public Design Commission aesthetic requirements. We fully anticipate equipment advancements through the DOITT approval process over the next 10 years facilitating fixed wireless and multi- carrier mobile communications within the confines of the approved aesthetic requirements.

2. Mobilitie Equipment and Facilities

Mobilitie has constructed 845 sites within the five boroughs under the two current franchises. Attached as Exhibit 1 and 2 are construction drawings of the Mobilitie installation on a New York City Street Operations Pole (metal) and Street Utility Pole (wooden) complete with equipment cut sheets detailed on pages 4 through 13 of the construction drawings. Currently our sites support one carrier due to current equipment form factors and current shroud size. Mobilitie has investigated approaches to enable multiple carriers on a single pole but has no current multi-tenant sites

A. Antenna

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The City requirement is for the deployment of 1 stick type antenna, no more than 2 inches in diameter and extending no more than 60 inches in length extending vertically from the base at the top of the pole. Mobilitie installations meet those specifications. See Exhibit 3 for antenna specification.



B. Base Station Equipment

All radio equipment is located inside the equipment housing unit. Basic equipment is comprised of Nokia radio, Airspan relay and PCTEL GPS antenna. For specifications and cut sheets for base equipment refer to Exhibit 4 for detail or refer to Exhibits 1 and 2 Construction Drawings.

C. Equipment Housing

Per the RFP, all equipment must be installed in an equipment housing in either of 2 size parameters approved by the City but in either case, the housing volume may be no greater than 2.8 cubic feet. Mobilitie's equipment housing (shroud) meets current City specifications. The shroud encloses the RRU, Backhaul unit, RF filter, AC panel and isolation transformer in one RF transparent material shell. Mobilitie has improved the equipment aesthetic on the pole and facilitated the deployment process as all cables are routed internally. The shroud itself is available in 2 basic colors (gray or brown). See Exhibit 5 for shroud specs or refer to Construction Drawing Exhibits 1 and 2 with cut sheets detailed on pages 4 through 13 of the construction drawings.

D. Site Photograph

Please review Exhibit 6 for a photographic documentation of a completed Mobilitie metal and wood pole site

3. Methods of Installation and Connectivity

Shrouds are band mounted on Street Operations Poles per DOT regulations and as shown on the attached drawings. The shroud on wood pole or a Street Utility Pole is mounted on a sled that includes a meter and power disconnect per Con Ed regulations. The sled is mounted on the Street Utility Pole with two "thru bolts". On DOT Street Operations Poles the antenna is mounted to a replacement pole cap per DOT specifications, allowing internal cabling connections to the equipment and as shown on the attached drawings. On the Street Utility Pole an antenna mount



bracket is used and fabricated per Con Ed specifications. Based on current customer needs Mobilitie is currently using a wireless backhaul solution. However, Mobilitie may during the term of the Resulting Franchises use other forms of backhaul, including fiber. See Exhibit 7 for associated antenna mounting equipment and additional information can be found within Construction Drawing Exhibits 1 and 2 with cut sheets detailed on pages 4 through 13 of the construction drawings.

4. Site Maintenance and Repair

The attached Exhibit 8 (material should be considered CONFIDENTIAL) provides guidelines for Mobilitie's Network Operations. The guidelines include: break-fix process and reporting process flow; approved site access guidance; lockout-tag out procedures; repair and maintenance vendors; nationwide 811 call before you dig information; wood utility pole preventive maintenance; emergency response protocol; disaster recovery; and strategic plans for the Mobilitie Network Operations Center (NOC). Such guidelines have ensured to date and will ensure going forward that all construction and site maintenance and repair will be performed and completed in full compliance with the City's standards and specifications.

Adhering to these guidelines enables Mobilitie Network Operations to (i) perform trend and root-cause analysis, (ii) process improvement initiatives, (iii) control and implement change requests, (iv) audit vendor performance, (v) communicate clearly and concisely with critical stakeholders, and (vi) most importantly, provide efficient emergency response and disaster recovery efforts.

5. Plans for Maintaining City's Property During the Term

As part of every application for attachment to City assets, Mobilitie provides a thorough structural analysis for City review so that the City can be confident in the effects Mobilitie's installation will have on the light pole's physical integrity. Mobilitie maintains Street Operations Poles and equipment in good operating conditions and in accordance with DOITT and DOT requirements. Any trenching or boring is done in accordance



with the Existing Franchise agreement terms, all NYC DOT regulations, and only by NYC approved contractors. Mobilitie's use of wireless backhaul limits the need for street openings and traffic disruptions.

6. Time Period for Installation

Currently Mobilitie has installed over 800 sites in all five boroughs including areas underserved by broadband access and has active reservations for over 1,000 sites. The location of such sites is public information in the Poletop application. A map of Mobilitie's cumulative reserved sites broken down by borough is attached as Exhibit 9. Mobilitie's future buildout plans are based on customer needs for coverage and capacity. Mobilitie has built and will build additional sites throughout the City with the current buildout plan primarily focused on the near future on the 1,000 cumulative reserved but unbuilt sites. Mobilitie values its relationship with the City of New York and the working environment we have developed as an "Existing Franchisee(s)". We would propose the development of a Mobilitie-specific annual plan to discuss specific project plans and objectives and alignment with City goals, (i.e. specific targeting of areas to create additional competition, and the development of infrastructure in under-served areas.) In this manner, both the City and Mobilitie can understand deployment progress, roadblocks, and policy considerations.

7. Future Design and Resiliency

As a neutral host provider, Mobilitie is at the leading edge of deploying multi-carrier antennas, shared equipment and backhaul as intelligent infrastructure to provide next generation wireless services. Mobilitie is in active development of roadmaps with wireless carriers, OEMs, antenna manufacturers, and other fiber providers for multi-carrier solutions while being respectful of the NYC Public Design Commission aesthetic requirements. The equipment housing allows for a clean, standardized look across the City of New York. We fully anticipate equipment advancements through the DOITT approval process over the next 10 years facilitating fixed wireless and mobile communications within the confines of an approved aesthetic. As wireless networks evolve towards 5G and/or



other multi-operator, multi-technology deployments, there are certain design requirements that may need to be taken into consideration to effectively enable co-existence.

5G small cells will take advantage of sophisticated MIMO techniques and utilize millimeter wave spectrum across multiple frequencies which may impact radio form factors. In situations where service offerings in an area demand a solution that requires additional equipment or equipment that that is larger and cannot be accommodated within existing solutions, the enclosure design may need to be revisited. Additionally, a multi-operator, multi-technology design may call for a top/bottom, side by side, or pole straddle option to accommodate multiple carrier, multiple frequency equipment on the same pole. Finally, as we continue to seek creative solutions for site backhaul (BH), microwave may become more prevalent if equipment housing can fit multiple BH antennas. Multiple antennas may allow for multi-hop and multi-operator BH to enhance resiliency of the network by offering multiple paths for packets to get where they need to go.

It should be noted that to enable deployment of 5G and/or multioperator deployments, additional equipment dimensions, specifically the antenna, should be considered for and/or during the new franchise term. As an example, an antenna that can handle multiple operator or multiple frequencies as well as allow for application of advanced 5G antenna techniques may require an antenna that is greater than 2 inches in diameter.

As it relates to resiliency, Mobilitie's favored backhaul deployment can redirect to multiple alternative donor sites in the event of an outage on that donor site or during severe weather events to maximize uptime. The aforementioned multi-hop microwave solution will also allow for enhanced resiliency during severe weather events since each node will have multiple packet routing options. As another consideration, we feel that battery backup solutions would also keep sites on-air in the event of a power outage that affects the specific node.



8. Statement re: Existing Franchises

If Mobilitie 2 becomes a "Resulting Franchisee" for its existing Mobilitie 2 Franchise it agrees to surrender its existing Mobilitie 2 Franchise.

9. Emissions Standards.

In 1996, the Federal Communication Commission (FCC) adopted regulations for the evaluation of the effects of RF emissions in 47 CFR § 1.1307 and §1.1310. The guideline from the FCC Office of Engineering and Technology is Bulletin 65 (OET Bulletin 65), Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields, Edition 97-01, published August 1997. Since 1996 the FCC periodically reviews these rules and regulations as per the FCC's congressional mandate.

FCC regulations define two separate tiers of exposure limits: Occupational or "Controlled" environment and General Population or "Uncontrolled" environment:

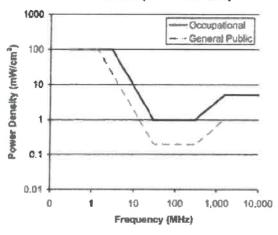
Occupational or Controlled limits - these apply to situations in which persons may be exposed due to job duties and where those persons exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Access to these areas are restricted by barriers and signage is always posted.

General Population or Uncontrolled limits are generally five times more conservative or restrictive than the Occupational limit. These limits apply to accessible areas where workers or the general population may be exposed to Radio Frequency (RF) electromagnetic fields without knowledge of proximity to an RF source. If a site has no access controls or RF warning signage, it is evaluated with General Population thresholds.

The theoretical modeling of the RF electromagnetic fields has been performed in accordance with OET Bulletin 65. The Maximum Permissible Exposure (MPE) limits utilized in this analysis are outlined in the following diagram:



FCC Limits for Maximum Permissible Exposure (MPE)
Plane-wave Equivalent Power Density



Federal Communication Commission Evaluating Compliance with FCC Guidelines for Human Radiofrequency pg. 67-68



Methodology

Mobilitie uses RoofView®, a powerful, Excel based software analysis tool for evaluating Radio Frequency (RF) field levels at telecommunications sites, along with field measurements to evaluate compliance with FCC OET 65. Mobilitie models the RF output at 100% capacity, all antenna channels transmitting simultaneously, and the radio transmitters operating at full power. Obstructions (trees, buildings etc.) that would normally attenuate the signal are not taken into account. As a result, the predicted signal levels are more conservative (higher) than the actual signal levels would be during normal operations. The modeling calculations were made for a 40 x 40-foot area with the equipment at the center.

Where required, wireless backhaul is modeled as a User Equipment Relay (UER) or microwave (MW) link operating at an aggressively low height of 17.5 ft. to reflect worst-case exposure. As height increases, the impact of the UER and MW reduces even further. Because of their low power levels compared to the RF antenna, the contribution of the UER and MW to the overall EME of the site is minimal and will not impact the calculated compliance levels for Maximum Permissible Exposure as calculated in this EME report.

Below we show typical deployment scenarios along with Power Density calculations at 6 ft. AGL. These scenarios have been modeled with these assumptions to calculate the maximum RF energy density as a worst-case scenario. If actual power density measurements were made, these are expected to be below the levels shown in this report.

		Site	architect	ure heights	for NY9OXS3	GSC			
								Without UER	With UER
								Power Density at 6ft AGL	Power Density at 6ft AGL
Scenario	Frequency	Power Per part (W)	#ports	Antenna Aperture	Antenna Beamwidth	Antenna Gain (dBi)	Antenna Gain (d8d)	(General Public) Uncontrolled Exposure Limit	(General Public/ Uncontrolled Exposure limit)
Sprint Band 41 2x2 MIMO	2520	20	2	2.5	360	8.5	6.35	0.02	0.05
USCC Band 4 4x4 MIMO	23.20	10	4	2.5	65	13.5	11.35	0.11	0.14
Sprint Band 41 4x4 MINEO	2520	10	4	2.5	360	8.5	6.35	0.02	0.05



Additionally, Mobilitie has modeled and field tested a location in the City of New York. Attached please see Exhibit 10 which is an EME report for our typical New York City site located at Third Avenue & 100th St. Brooklyn, New York. Mobilitie understands that the City may require testing, from time to time, by independent experts, at the expense of franchisee to ensure compliance during the new franchise term.

As shown in the sample EME report, the maximum measured RF level was 0.3935 percent of the FCC general population MPE limit, found on the west side of Third Avenue, Brooklyn, NY approximately 100 feet north of 100th Street.

Mobilitie models all deployments to comply with OET Bulletin 65 and works with vendors and carrier partners to ensure all inputs are accounted for and that each site is fully compliant. Multi-carrier deployments have full inventory of necessary antennas and RF sources to allow for an accurate assessment across multiple frequency bands.



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MANAGERIAL EXPERIENCE

Mobilitie has significant managerial experience and capabilities to operate this franchise. Attached as Exhibit 11 are short biographies of Mobilitie's senior management team as well as the operations team focused on the New York City franchise. Mobilitie has been operating as a light pole franchisee in New York City since 2007 and has worked closely with DoITT, NYCDOT and the City of New York during that period. Mobilitie provides services to several carriers. However, as stated previously, each site currently is designed to serve one carrier due to shroud size and equipment form factors.

Mobilitie has not been in material default under its multiple light pole franchises and is current with all material obligations. Mobilitie has worked in concert with local communities and local officials and local utilities to the extent necessary for a successful deployment. Mobilitie provides critical broadband infrastructure for its customers and New York City residents and businesses.

Mobilitie has an office at 101 Greenwich Street-Suite 1100D in New York City and personnel in that office are focused on the New York City project.



LEGAL CREDENTIALS AND AUTHORIZATIONS

Mobilitie 2 will create an online account in the new Procurement and Sourcing Solutions Portal (PASSPort) and file all disclosure information. Mobilitie acknowledges the franchise award will be subject to completion of PASSPort Questionnaires and review of certain information contained therein by the Department of Investigation and may be subject to other due diligence reviews by the City.

Attached as Exhibit 12 is the completed Doing Business Data Form (date of births and home addresses should be considered CONFIDENTIAL). Also attached as Exhibit 13 is the Affirmation and attached as Exhibit 14 is the Acknowledgement of Release Date and Addendum, both as required by the RFP.

Mobilitie confirms it has secured all necessary authorizations, approvals, licenses and/or permits required to undertake the activities proposed and acknowledges that it will not undertake such activities unless and until such authorizations, approvals, licenses and/or permits are obtained. Mobilitie 2's application for a Certificate of Public Convenience and Necessity was approved by the State of New York Department of Public Service, which CPCN is attached as Exhibit 15.

Mobilitie confirms that any FCC licenses necessary for microwave transmission of backhaul, if used, have been or will be obtained as needed and prior to installation. The facilities installed by Mobilitie on Street Poles may serve different telecommunications service providers, and the facilities used by such providers that require FCC licensing are, or will be prior to installation, fully licensed by the FCC.



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FINANCIAL CREDENTIALS

Mobilitie has significant financial resources and access to capital. As a current franchise holder, Mobilitie is in good standing, has made all payments in a complete and timely manner in New York. Mobilitie is also in good standing on hundreds of franchise or other rights of way and pole attachment agreements across the country with cities such as Chicago, Minneapolis, Los Angeles, San Francisco, Houston, San Antonio, Philadelphia, and Boston.

Mobilitie has among its investors some of the largest and most sophisticated private equity firms in the telecommunication field. Mobilitie has credit facilities from some of the largest and most experienced banks in the telecommunication field. Attached as Exhibit 16 is a list of business references, many of whom are known to DoITT.



COMPENSATION PROPOSAL

Mobilitie 2 will be requesting a franchise for Zone A, Zone B and Zone C with the following compensation price structure:

Zone A	Zone B	Zone C
\$353.00	\$253.00	\$103



EXHIBITS

Exhibit 1. Construction Drawings/metal pole

Exhibit 2. Construction Drawings/wooden pole

Exhibit 3. Antenna Specifications

Exhibit 4. Base Station Specifications

Exhibit 5. Equipment Housing Specifications

Exhibit 6. Site Photos

Exhibit 7. Associated Equipment Specifications

Exhibit 8. Maintenance & Repair Protocol (CONFIDENTIAL AS TO CERTAIN PROPRIETARY INFORMATION)

Exhibit 9. NYC Deployment Map

Exhibit 10. EME Report

Exhibit 11. Managerial Experience

Exhibit 12. Executed Doing Business Data Form
(CONFIDENTIAL AS TO CERTAIN PROPRIETARY INFORMATION)

Exhibit 13. Executed Affirmation (Exhibit D to RFP)

Exhibit 14. Executed Addendum Receipt Acknowledgement (Exhibit C to RFP)

Exhibit 15. New York CLEC

Exhibit 16. Financial Credentials- Business References



SITE ID-CANDIDATE LETTER/CASCADE ID-CANDIDATE LETTER: 9NYB002992/NY90XSBJ8C

40.706054/-73.825939 LATITUDE/LONGITUDE:



CITY, STATE, ZIP: KEW GARDENS, NY 11415

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CONTRACTORS SHALL VERITY ALL PLANS. (?) EMÉNSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMAEDIATELY NOTIFY THE ACCHIECT/ FAUNEER IN WRITING OF ANY DISCREDANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME. GENERAL NOTES

VICINITY MAP

LOCATION MAPS

REGIONAL MAP

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THE FACULTY IS UNMANIED AND NOT FOR HUMAN HABITATION. A TECHNICAN WILL VISIT THE SITE AS REQUIRED FOR ROUTHER UNMATERIANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNEFON SISTINGBANCE OF REFECTION OF REMANAGE, NO SANITARY SCIENCE ON TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SERVAGE IS REPORTED.

PRIOR TO ANY CONSTRUCTION WORK, CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES. ALL UTILITIES SHALL BE MARKED.

THIS DESIGN IS SUBJECT TO ANY JURISDICTROMA, AND DWHER APPROVALS INCLUDED JURISDICTROMA REQUIREMENTS, RESUMENTION OF THE OWNER AND WILL'S PROVIDERS, CONTRACTOR TO CONFIRM PAUL REQUIREMENTS WITH OWNERS, CONTRACTOR TO CONFIRM FAVAL REQUIREMENTS WITH OWNERS.

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311S	SITE INFORMATION
SITE ID:	9NYB002992
CASCADE ID:	NY90XSBABC
LATITUDE:	40.708054
LONGITUDE:	-73.825939
CROSS STREET:	AUSTIN ST & 1267H ST
CITY, STATE, ZIP:	KEW GARDENS, NY 11415
COUNTY/BOROUGH:	QUEENS COUNTY
JURISDICTION:	NEW YORK CITY
PROPERTY OWNER:	PUBLIC RIGHT-OF-WAY
APPLICANT:	MOBILITIE, LLC 3475 PEDMONT ROAD NE; SUITE 1000 ATLANTA, GEORGIA 30305 PHONE: (312) 638-5400

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ITE ID:	9NYB002992
ASCADE ID:	NY90XSBJBC
ATTTUBE:	40.708054
ONGITUDE:	-73.825939
ROSS STREET:	AUSTIN ST & 1267H ST
ITY, STATE, ZIP:	KEW GARDENS, NY 11415
OUNTY/BOROUGH:	QUEENS COUNTY
URSDICTION:	NEW YORK CITY
ROPERTY OWNER:	PUBLIC RIGHT-OF-WAY
PPLICANT:	MOBILITIE, LLC 3475 PEDMONT ROAD NE; SUITE 1000 ATLANTA, GEORGIA 30305 PHONE: (312) 638-5400

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SITE

BRIARWOOD

JACOBS ENGINEERING GROUP, INC. 5449 BELLS FERRY ROAD ACWORTH, GA 30102 ENGINEER CONTACT: KARL KRATINA PROJECT MANAGER TEL: (878) 480-1416 PROJECT: ER600201

MAP DATA 2018 GOOGLE

MAP DATA \$2016 GOOGLE

PROJECT DESCRIPTION

END USER PROPOSES TO INSTALL EQUIPMENT ON AN EXISTING SITEEL LIGHT POLE WITHIN AN EXISTING RIGHT-OF-WAY. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- INSTALL PROPOSED BACKHAUL TRANSPORT EQUIPMENT ON AN EXISTING STEEL LIGHT POLE

INTERNATIONAL BUILDING CODE
NATIONAL ELECTRICAL SAFETY CODE
TW/EIA-222-G-2 OR LATEST EDITION
LOCAL BUILDING/PLANNING CODE

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SUITE 1000 ATLANTA, GEORGIA 30305 PHONE: (312) 638-5400

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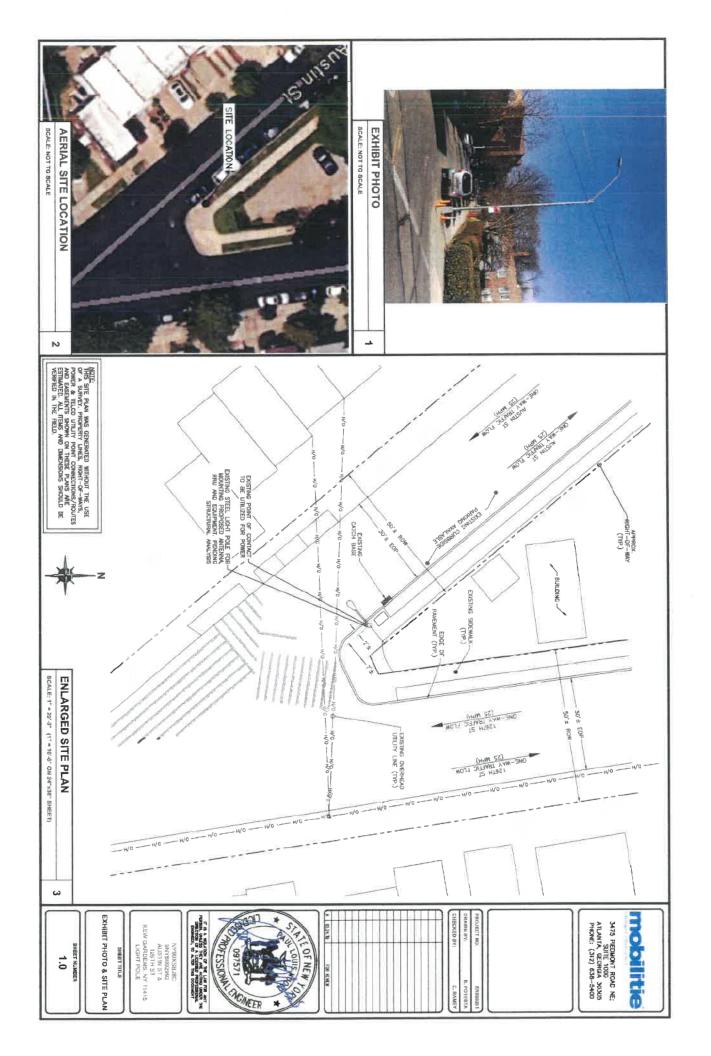


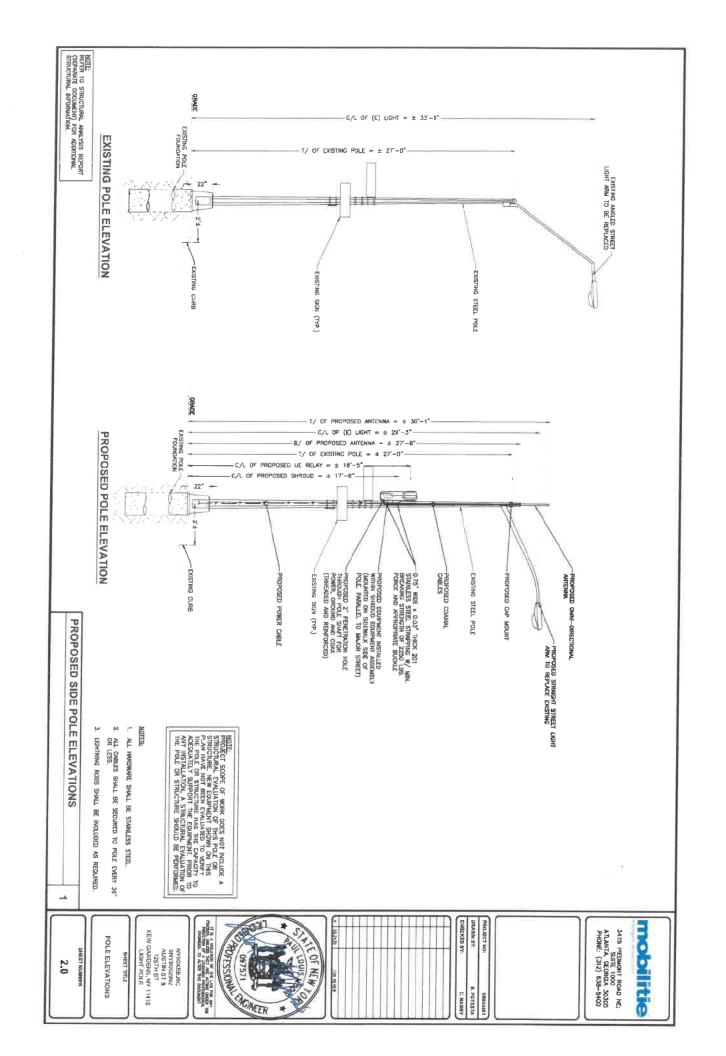
NY90XSBJ8C 9NY90XS992 AUSTIN ST & 128TH ST KEW GARDENS, NY 11415 LIGHT FOLE

SHEET TITLE

TITLE SHEET

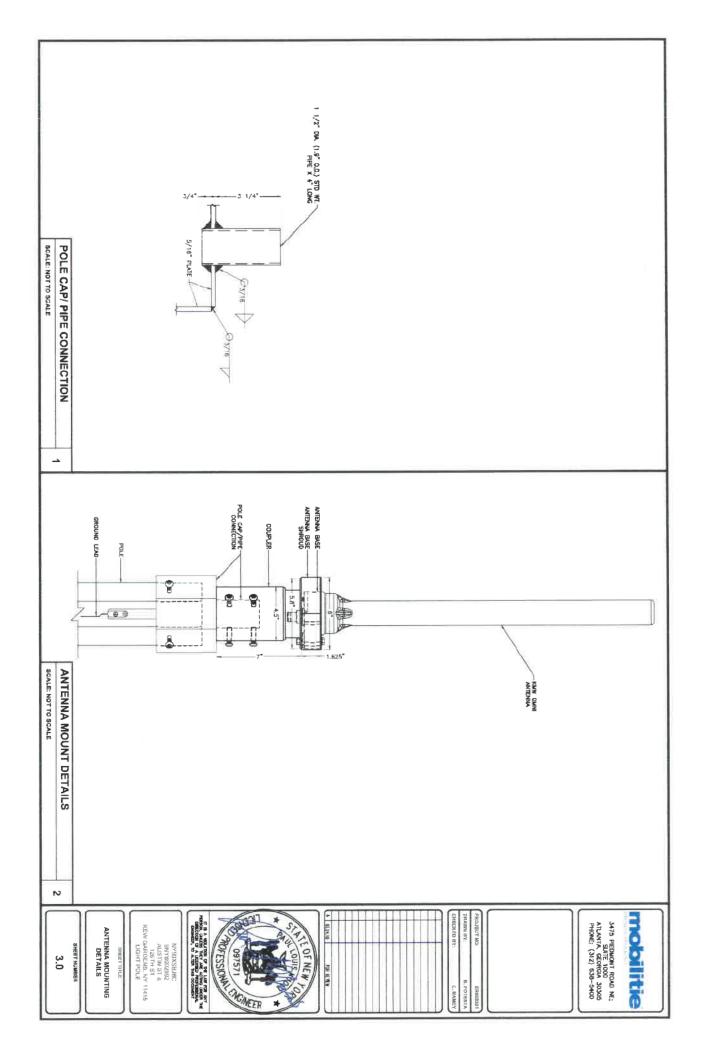
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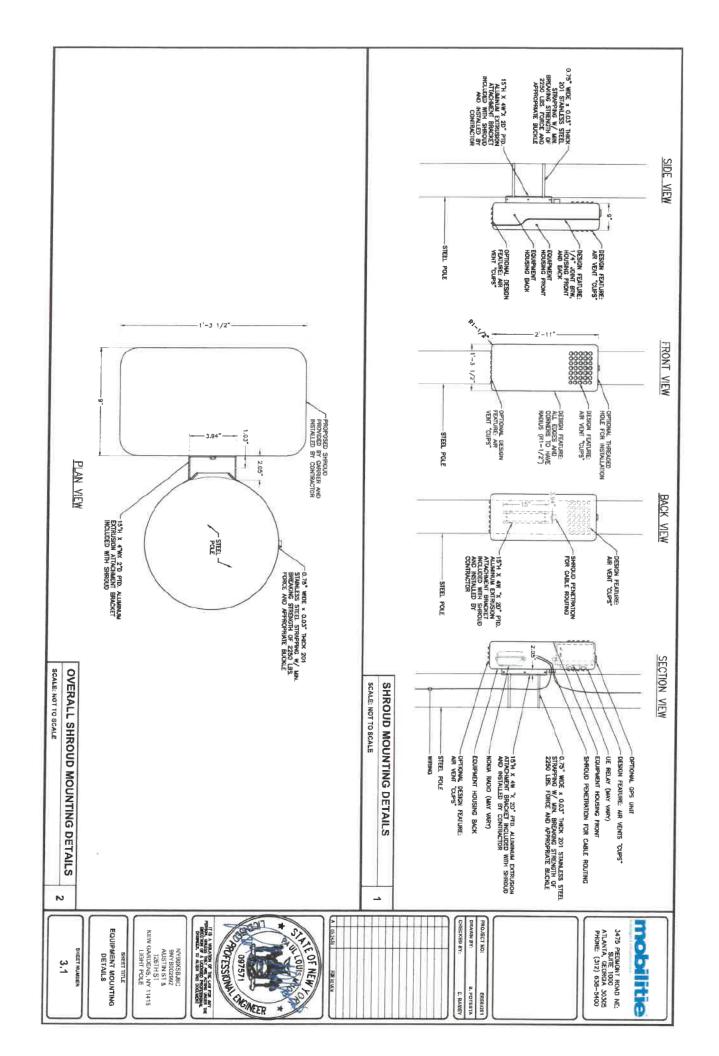




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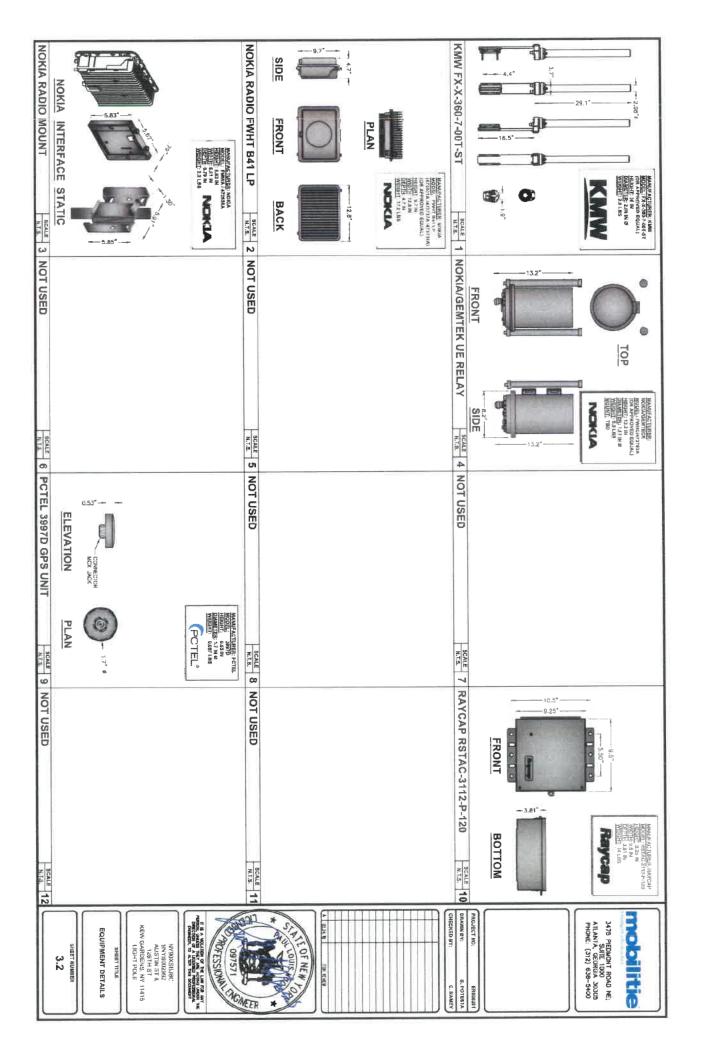
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GENERAL

THE CONSTRUCTION OCCUMENT OBANINGS ARE INTERRELATED. WHEN PERFORMING THE WORK, EACH CONTRACTOR MUST REFER TO ALL DRAWINGS. COORDINATION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

GENERAL REQUIREMENTS

- ORTAN AND SUBMIT RELEASES EMALING THE OWNER UNBESTRICTED USE OF THE WORK AND ACCESS TO SERVICIA'S AND UNLITES, INCLUDE COCUPANCY FERMITS, OPENATION CERTIFICATES AND SUMMA RELEASES.
 SUBMIT RECORD DAMINAS, DAMAGE OR SETTLEMENT SURVEY, PROPERTY SURVEY, AND SUBMIT RECORD METOBANTON.
 SUBMIT REPORT METOBANTON.
 COMPLETE FINAL (ECOMO METOBANTON, INCLUDING TOLICH—IJD PANTING. TOLICH UP AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED FAISHES.

PART 2 - FINAL CLEANING

- 1. COMPLETE THE FOLLOWING CLEANING OPERATIONS BEFORE REQUESTING INSPECTION FOR CERTIFICATION ON COMPLETION.

 A CLEAR THE FROLEST STE, VARD AND GROUNDE IN AREAS DISTURBED BY A CLEAR THE FROLEST STE, VARD AND GROUNDE IN AREAS OF GREEZOMENT AREA, OF RELIGIOUS WILLIAMS, AND AND AND AREAS OF GREEZOMENT AREA, OF REMANDED THE STEE AND AND AREAS OF THE PARE AREA GROUNDED THAN RELIGIOUS SHEEP PARED FROM AND AND AREAD. TO A RELIGIOUS CONSTRUCTION EQUIPMENT, MACHINERY AND SURPLUS MATERIAL FROM THE STEE AND EQUIPMENT EXCLOSURE.

 BREADOT ESSAY STORM AND CRE TO PROVIDE SAFE ACCESS TO THE SITE AND EQUIPMENT EXCLOSURE.

 CREADOTS SHOW AND CRE TO PROVIDE SAFE ACCESS TO THE SITE AND EQUIPMENT EXCLOSURE.

 CREADOT SHOW AND CRE TO PROVIDE SAFE ACCESS TO THE SITE AND EQUIPMENT FREE CONDITION, FREE OF STANKS, FLUX AND SURFACED PRINSHESS TO A DIFF-FREE CONDITION, FREE OF STANKS, FLUX AND SURFACED PRINSHES. NOLLOWED FROM THE STORM AND SURFACES, NOLLOWED FROM THE STORM AND SURFACES, NOLLOWED FROM THE STORM AND THE STORM A

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SITE WORK

PART 1 - GENERAL

- WORK INCLUDED, SEE SITE PLAN
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 TO BE CONSTRUCTED TO PROVIDE A WELL DRIVINED, EXSILY MINITARED, EVEN SURFIACE
 FOR USE AND ACCESS.
 QUALITY ASSURANCE
 A APPLY SOL STERRIZER IN ACCORDANCE WITH MANUFACTURERY'S
 A POPLY SOL STERRIZER METERS.

- A APPLY SOL STERUZER IN ACCORDANCE WITH WANUFACTURER'S
 A RECOMMENDATIONS (48 NEEDED).

 B. APPLY SOL STERUZER IN ACCORDANCE WITH WANUFACTURER'S
 C. PLACE AND WANTAIN ORANS SEED AS RECOMMENDED BY THE SEED PRODUCER
 (IF REQUIRED).
 C. PLACE AND WANTAIN VECENTAINON LANDSCAPING, IF INCLIDED WITHIN THE
 CONFINCT OR RECOMMENDED BY NURSERY INDUSTRY STANDARDS.
 A CONFINA SURVEY STAKES AND SEE LECKNION STAKES PRIQR TO AMY
 CONSTRUCTION.
 CONSTRUCTION WANGER AND LOCAL AUTHORITIES.
 BY CONSTRUCTION HANGER AND LOCAL AUTHORITIES.
 C. MAPTY SOL STERUZER PRIQR TO PLACING BASE MATERIALS.
 C. MARCH SEED, PETILIZE AND MALCH ALL REASS INSTRUBED BY CONSTRUCTION
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 (INCLUDING WEDERSACUND UTILITY ESSENSIVE) MAEDINETLY TERM BINNING
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 (INCLUDING WEDERSACUND UTILITY ESSENSIVE)
 (INCLUDING

- 5. SUBMITIALS
 A BETURE CONSTRUCTION: IF LANDSCAPING IS APPLICABLE TO THE CONTRACT,
 SUBMIT TWO COPIES OF THE LANDSCAPE PLAY ON NURSESTY LETTERHEDO. IF A
 LANDSCAPE ALLOWANCE WAS NOLLOED IN THE CONTRACT, PROVIDE AN ITEMAZED

 B. AFTER CONSTRUCTION
 B. AFTER CONSTRUCTION OF NURSESTY LETTERHEDO
 STATEMENT ON SOIL STERNILZER.
 Z. MANUFACTURERY'S DESCRIPTION OF PRODUCT AND WARRANTY
 MANUFACTURERY'S DESCRIPTION OF PRODUCT ON GRASS SEED AND
 FERTILIZER.
 Z. MANUFACTURERY'S DESCRIPTION OF PRODUCT ON GRASS SEED AND
 FERTILIZER.
 J. LANDSCAPING WARRANTY STATEMENT
- B. WARRANTY CONTINUENCE OF THAT THE CONTRACTOR STALL REPAIR ALL DAMAGE AND CONTRACT DOCUMENTS. THE CONTRACTOR STALL REPAIR ALL DAMAGE AND RESTORM AS CLOSE TO ORIGINAL CONDITION AS POSSIBLE AT SITE AND SLIERCULVINES.

 B. SOIL STERLIZATION APPLICATION TO GLAMPANTE VEGETATION FREE AREAS FOR ONE THAT FROM DATE OF FINAL INSPECTION.

 C. DETUNGED AREA MILL REFLECT GROWTH OF NEW GRASS COMER FROM TO FINAL MEDICAL PROPERTY OF THE CONTRACT, WILL BE GLAMPANTEED FOR ONE TEAR FROM DATE OF FINAL INSPECTION.

PART 2 - PRODUCTS

1. MATERIALS A. SOIL STERIUZER SHALL BE EPA-REGISTERED, PRE-EMERGENCE LIQUID:

TOTAL KILL PRODUCT 910 EPA 10292-7 (313) 563-8000 (800) 526-4924 AMBUSH HERBICIDE EPA REGISTERED PHASAR CORPORATION P.O. BOX 5123 DEARBORN, MI 48128 FRAMAR INDUSTRIAL PRODUCTS 1435 MORRIS AVE. UNION, NJ 07083

B. ROUM AND SITE MATERALS SHALL CONFORM TO STATE AND LOCAL DOT SECEPTIONATOR. FALL WHITERAL (UNESS OTHERMES WOTED) — ACCEPTABLE SELECT FILL SHALL BE IN ACCORDANCE WITH STEPRESSE WOTED) — ACCEPTABLE AND TRANSPORT OF MORNING WITH STANDARD SPECIFICATION.

C. SOLL STABILIZER FABRIC SHALL BE MIRAPI SOON.

PART 3 - EXECUTION

- 1. INSPECIONS: LOCAL BILLIDNO INSPECTORS SHALL BE NOTIFED NO LESS THAN 44 HOURS IN ADMINISTRATION

 2. PREPARATION

 A. CLEAR BRUSH AND DEBRIS FROM LEASE AREA AND UNDERGROUND UTILITY EXSURED. AND LINDERGROUND UTILITY EXPONENT OF FILL OR BOSE MATERIAL.

 3. INSTALLITION HEAVEN HOLD FOR CONTROL OF LINDERGROUND ENGINE AND LINDERGROUND. AND LINDERGROUND PRODUCT AND LINDERGROUND UTILITY. AND COMPACT EXPONENT AND LINDERGROUND UTILITY. AND COMPACT EXPONENT EXPOSES FROM LINDERGROUND UTILITY. AND COMPACT EXPOSES FROM LINDERGROUND UTILITY. AND L

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DRAWN BY: PROJECT NO: в. РОТЕВТА ER690201

CHECKED BY:



KEW GARDENS, NY 11415 LIGHT POLE NY90XSBJ8C 9NYB062992 AUSTIN ST & 126TH ST

GENERAL NOTES SHEET TITLE

SHEET NUMBER GN-1

ELECTRICAL

- CONTRACTOR SUALL REVIEW THE CONTRACT DOCUMENTS FRIDE TO DRIEBRING THE STATISM CONSTRUCTION, CONTRACTOR SWALL ELLCHROW, EQUIPMENT AND STARTING THE ACTUAL CONSTRUCTION, CONTRACTOR SWALL ISSUE A WRITTEN MOTICE OF ALL PROMOSES OF THE ACCURATE FOR THE ACTUAL PLANS, DEFAULS AND EMPRISHMENT.

 ELICTRICAL PLANS, DEFAULS AND EMPRISHMENT BURGENMANNED, ONLY, VEHIEY EXACT LOCATIONS, AND MOUNTING HIDDRINS OR ELECTRICAL EQUIPMENT WITH DIWER PRIOR TO METALL AND MOUNTING HIDDRINS OR ELECTRICAL EQUIPMENT WITH DIWER PRIOR TO METALL MOUNTED.
- ALL MINERAL AND EMPHANT STEAM SHALL BE REMANDENT MINERAL BEACH REACH REA

SERVICE AND DISTRIBUTION

- WIRE AND CABLE CONDUCTORS SHALL BE COPPER, 800V, TYPE THAN OR THAN, WITH A MIRK SEC OF \$1/2 AMG. COLOR CODED.

 METER SCOKET AMERERS, YOUTAGE, NUMBER OF PHASES SHALL BE NOTED ON THE DRAWNESS. MANUFACTURED BY MILBANK OR APPROVED EQUAL, AND SHALL BE UTILITY COMPANY APPROVED.
- A RIGHD CONDIT SMALL BE ULL USED CALMANIZED ZINC CONTENHEN CALVANIZED A RIGHD KAND SMAL BE USED WERM MECHANIZED ZINC REPORT CANDING MANDER CONCERT. SMALLER RIGHD KAND SMALLER RIGHD KAND SMALLER RIGHD KAND SMALLER RIGHD KONDING MANDER CONCERT. SMALLER RIGHD CONDIT SMALLER LANG MAY BE USED WHITH HEATH AND AND SMALLER LANG MAY BE USED WHERE PERMITTED BY CONCERT. STALL HAVE ULL USETIO LAREL AND MAY BE USED WHITE CONTINES SMALL BE "LAKE" OR "SMELEZE" TYPE. ALL FLEXIBLE CONDITIS SMALL HAVE BE AND SMALLER LANG MAY BE USED WHITE CONTINES SMALL BE "LAKE" OR "SMALLEZE" TYPE. ALL FLEXIBLE CONTINES SMALL BE STALL ENGINE RORMON MAY BE USED WHITE CONTINES SMALL BE "LAKE" OR "SMALLEZE" TYPE. ALL EXCIPIENCY TO CONDINANCE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND BEFORE DROMANE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PROMANENT FOR CONTINES SMALL BE STALL ENGINEED WAS ASSOCIATED.

 A. CONTINALTIES TO CONDINANCE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PROMANENT FOR SMALLER BULL BUCKGROUND L'ETTENDA (MINHAUM L'ETTER HEGAN SMALL BE LOUGHER WORTH AND THE SMALLER SMALL BE PROMANED FASTIC LARELS SMALL BE SMALLER BUTCH AND THE SMALLES SMALL BE SMALLED WAS AND THE SMALLES SMALLED WAS AND T
- B. EXTERNAL Ņ
- INTERNACIONE PREPARATOR ALL CONNECTIONS SMALL BE MADE TO BARE NETAL
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 DENEMA PROPERE CONTACT. NO MASSETTE AND MADERED THE TEAMS
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 SMALL BE GROUNDER. SEAL BOTH ENGS OF CONDUIT, BOTH ENCS OF CONDUIT
 SMALL BE GROUNDER. SEAL BOTH ENGS OF CONDUIT, BOTH ENCS OF CONDUIT
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 ALL AGANC GROUNDER OF THE CONDUIT ON THE SMALL BE
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- Ü GROUND RODS: ALL GROUND RODS SAML BE 5/8-INCH DAMETER X 10"-O"
 LONG "COPPENEED." OR APRIODED SAML, OF THE NAMBER AND LOCATIONS
 MINISTRUMENTO. GROUND RODS SAML BE CHRONE PLAIL LENGTH VERTICAL, IN
 MINISTRUMENTO DAMPLIFA. MA. GROUND CONDUCTORS SAML BE STANDARD
 MANDE SAULD BANK COMPER AMPACLED, AND OF SIZE INDICATED ON
 JOHANNOS UNLESS, OHERWISE NOTED.
- LUOS SHALL BE 2-HOLE, LONG BHAREL, STRAND COPPER UNLESS OTHERWINES RECEIPED IN THE CONTRACT DOCUMENTS, LUOS SHALL BE THOMAS AND BETTS SERIES \$54......BE OR EQUIVALENT
- 535 MCM DLO
 282 MCM DLO
 \$1/0 DLM
 \$1/0 DLMN AND BARE
 \$2/0 THWN
 \$2 THHN
 \$5 DLO
- MARKI THE DIRECTION OF THE CONDUCTOR MUST CHANGE, IT SHALL BE DONE GRADUALLY, THE CURRATURE OF THE TURN SHALL BE DONE IN ACCORDANCE WITH THE FOLLOWING CHART:

NO. 5 AWG TO NO. 4 AWG NO. 2 AWG TO NO 1/O AWG NO. 2/O AWG TO 4/O AWG 250 MCM TO 750 MCM GROUNDING CONDUCTOR SIZE 6 INCHES B INCHES 12 INCHES 24 INCHES MINIMUM BENDING RADIUS TO INSIDE EDGE

GROUNDING RESISTANCE TEST REPORT: UPON COMPLETION OF THE TESTING FOR EACH STIE, A TEST REPORT SHOWING RESISTANCE IN ONAS MUST BE SUBJECTED. IND (2) SETS OF TEST GOUMENTS FAMO HE ROPERFOLDENT TESTING SERVICE ARE TO BE BOUND AND SUBJECTED WITHIN ONE (1) WEEK OF WORK COMPLETION.

(SINGLE MAST AND SELF SUPPORTING TOWERS)

- 1. GENERA FURNISHED BY OWNER, IF REQUIRED.
- in GROUNDING: GROUND METAL FÖLES WITH A MINIMUM OF $\sharp 2$ AWG TINNED SOLID BARE COPPER CONDUCTOR CADWELDED TO TOWER BASE PLATE.

TELECOMMUNICATIONS WIRING COMPONENTS (COAXIAL ANTENNA CABLE)

- GENERAL A
- è SHALL BE SUPPLIED BY THE CONTRACTOR UNLESS MODED OTHERWISE.
- 2. MATERIALS STRAM OR CONTINUED AND TERMINATIONS BETWEEN ANTENINGS AND SOURPHEAT PER MANUFACTURET'S RECOMMENDANCISM MITH AND SOURPHEAT PER MANUFACTURET'S RECOMMENDANCISM MITH CONTINUED AND SOURPHEAT PER MANUFACTURET'S RECOMMENDANCISM TO D.C. SWATTESPAROO ALL COMMETCHAS ETWEEN THE ARTICLANA AND COUNTAIN CARLE SOURCES OF SOURPHASE STATED.

 2. LEWITHS LESS THAN OR ROUN, TO TOO FEET SHALL BE 7/8".

 3. ANTENINA AND COMMIL CABLE FROM THE ARE TO BE INSTALLED ON STRAUGHT AND COMMIL CABLE SOURCES OF SOURCES OF SOURCES OF SOURCES. THE REAL SOURCES OF SOURCES OF SOURCES OF SOURCES. THE COMMIN AND UNIFORM MARKEN OF COMMINCE LIST DEMITICATION AND UNIFORM MARKEN OF COMMINCES THE COMMINCES OF THE THE COMMINCES OF
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- CONNECTED).

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NY90XSBJ8C 9NYB00Z992 AUSTIN ST & 126TH ST

KEW GARDENS, NY 11415 LIGHT POLE

GENERAL NOTES SHEET TITLE

SHEET NUMBER

GN-2

UTILITY NOTES

WORK INCLUDES:

WORK INCLUDES:

THESE NOTES AND ACCOMPANYING DRAWINGS COMPLEMENT THE PROVISIONS AND INSTALLATIONS BY THE ELECTRICAL CONTRACTOR, OF ALL LABOR, MATERIALS AND EXTALLATIONS BY THE ELECTRICAL CONTRACTOR, OF ALL LABOR, MATERIALS AND EXPLANATION OF A COMPLETE IN CONFIDENCY TO INSTALLATION AND CONFIDENCY OF A GROUNDING LECTRICAL SETRICE STALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING.

IN THE PROVISIONS AND INSTALLATION OF AN OVERHEAD ELECTRICAL SERVICE OR UNDERGROUND ELECTRICAL SETRICATION OF AN OVERHEAD ELECTRICAL SERVICE OR UNDERGROUND ELECTRICAL SETRICATED ON PLANS.

IN THE PROVISION AND INSTALLATION OF AN OVERHEAD ELECTRICAL SERVICE OR LOCAL FIBER SERVICE.

THE PROVISION AND INSTALLATION OF THE ELECTRICAL SERVICE ENTRANCE CONDUCTORS, CONDUCTS, METER SOCKET, AND CONNECTIONS TO THE SERVICE.

ALL CONDUCTORS, CONDUCTS, METER SOCKET, AND CONNECTIONS TO THE SERVICE.

ALL CONDUCTORS, CONDUCTS, METER SOCKET, AND CONNECTIONS TO THE SERVICE SERVICE SERVICE WITHOUT SECULD BE LEFT WITH WITHOUT PAIL CORD FOR FUTURE USE.

BECANATION, TRENCHING, AND BACKFILLING FOR CONDUCT(S), CABLE(S) AND EXTERNAL GROUNDING SYSTEM.

CODES, PERMITS AND FEES:

1.ALL RECURRED PERMITS, LODINSES, INSPECTIONS AND APPROVALS SHALL BE SECURED AND ALL FEES FOR SHAE PAO BY CONTRACTOR AND ALL FEES FOR SHAE PAO BY CONTRACTOR AND METHODS OF CONSTRUCTION OF ALL FEES AND METHODS OF THE MATIONAL AND THE DESIGN PERFORMANCH CHARACTERISTICS AND METHODS OF THE LATEST ISSUE OF THE WARROUS APPLICABLE STANDARD SPECIFICATIONS OF THE FOLLOWING ALTHORISTIES AND ELECTRICAL AND ELECTRICAL AND THE DESIGN PROPERTY OF THE PROPERTY OF

RACEMAYS AND MRING.

RACEMAYS AND MRING.

I MRING CENTRY NAM BUST BY INSTALLED IN CONDUIT, UNLESS NOTED OTHERWISE, OR AS APPROVED BY THE MACHITECT/ENGINEER.

AN APPROVED BY THE MACHITECT/ENGINEER.

NAMESS OTHERWISE SECRED, ALL WRING SHALL BE COPPER (QJ) TYPE THWM, SIZED IN MECHANICAM THE MATIONAL ELECTRICAL CODE AND LOCK. CODES.

ARICECTRICAL COME AND LOCK STALL BECOMED AND COMPANALE WITH THE MATIONAL ELECTRICAL COMPANALE MATERIAL SHALL BE APPROVED AS THE MOST MINING.

PROVIDE A COMPATER SALL BE PROVIDED AS REQUIRED TO FAULTATE.

MISTALLITUM OF RACEMAYS AND MRING. PROVIDED AS REQUIRED TO FAULTATE.

MISTALLITUM OF RACEMAYS AND MRING. PROVIDED AS REQUIRED TO FAULTATE.

PROVIDE A COMPATER RACEMAY AND WRING INSTALLATION, PERMANENTLY AND ELECTRICAL CODE AND LOCAL CODIES.

PROVIDE A COMPATER RACEMAY AND WRING INSTALLATION, PERMANENTLY AND ELECTRICAL CODE AND LOCAL CODIES.

SENIFAL NOITS.

SET BYNIG SCHALLES AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND NECESSARY AREA AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND NECESSARY AREA AND SECURIATION, AND ADDITIONAL RECEIVED AND ADMINIST FOR SCHALLES AND ADMINISTRATION FOR A COMPACTOR SHALL BE PROVIDED WITH PROPER MOTOR STANDARD IN TRANSIED BY OTHERS FEED SHALL BE PROVIDED WITH PROPER MOTOR STANDARD WITH TOWNSHED BY OTHERS FEED SHALL BE ADDITIONAL THE RECEIVED A CONTRACTOR SHALL INSTALL AND COMPLETE WITH A DESCRIPTION OF SHALL SHALL

COORDINATION WITH UTILITY COMPANY.

RECEITING CONTRACTOR SHALL COORDINATE COMPLETE ELECTRICAL SERVICE WITH COMPLETE ELECTRICAL CONTRACTOR SHALL COORDINATE COMPLETE ELECTRICAL CONTRACTOR SHALL COORDINATE CONTRACTOR SHALL NORTH COLOR IN THE ELECTRICAL CONTRACTOR SHALL NORTH COLOR IN THE ELECTRICAL CONTRACTOR SHALL NORTH COLOR IN THE ELECTRICAL STRIPE EFFORE BIDDING TO INCLUDE ALL COSTS. THE ELECTRICAL CONTRACTOR SHALL NORTH CONTRACTOR SHALL NORTH CONTRACTOR SHALL NORTH CONTRACTOR SHALL NORTH COLOR SHALL NORTH CONTRACTOR SHAL

1. NOORRECTLY FABRICATED DAMAGED OR OTHERWISE MIS-INTING OR NOORRECTLY FABRICATED DAMAGES OR CONDIDING SHALL BE REPORTED TO THE MONI-CONFORMING MATERIALS OR CONDIDING SHALL BE REPORTED TO THE PRODUCT IN MANAGEM FARING TO READILAL OR CORRECTION ACTION.

1. DECALCY IN MANAGEM FARING TO READILAL OR CORRECTION AS THE PRODUCT OF THE PRODUC

ALL MASTS SHALL BE INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

ALL MASTS SHALL BE CONTINUOUS (WITHOUT SPLICE) AND INSTALLED PLUMB UNLESS OTHERWISE NOTED.

ANTENNA INSTALLATION NOTES

1. ALL HABBWAME, FASTERERS AND COMPONENTS SHALL BE PANNED THE COLOR OF THE PORL LIPON COMPACTOR SHALL TOUCH UP PANNI AS REQUIRED.

2. STICKERS AND LARELS ARE NOT PERMITTED ON THE MITEMA, MOUNT OR THER BOX, COMPACTORS SHALL REMOVE STICKERS AND TOUCH UP PAINTED SUPPACEDS A REQUIRED.

3. MATEMAN SHALL BE INSTALLED PLUMB.

4. MATEMAN MOUNT SET SCREWS SHALL BE INSTALLED AS FLUSH TO THE POLE AS PRACTICAL, COMPACTORS SHALL BE INSTALLED AS FLUSH TO THE POLE AS PRACTICAL. COMPACTORS SHALL USE THE SHORTEST LENGTH BOLT DOSSBILL.

5. SUME SET SCREWS LOCK THREADED CONNECTIONS, OTHERS LOCK SLIP

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DRAWN BY: PROJECT NO:

B. POTESTA C, RAMEY ERU60201

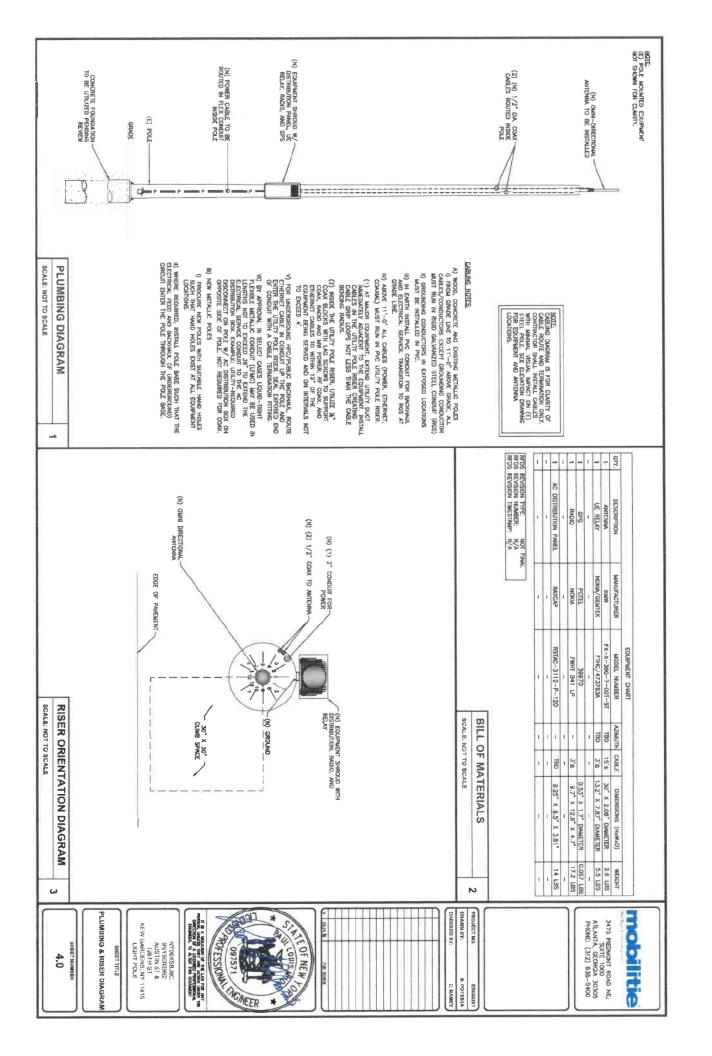


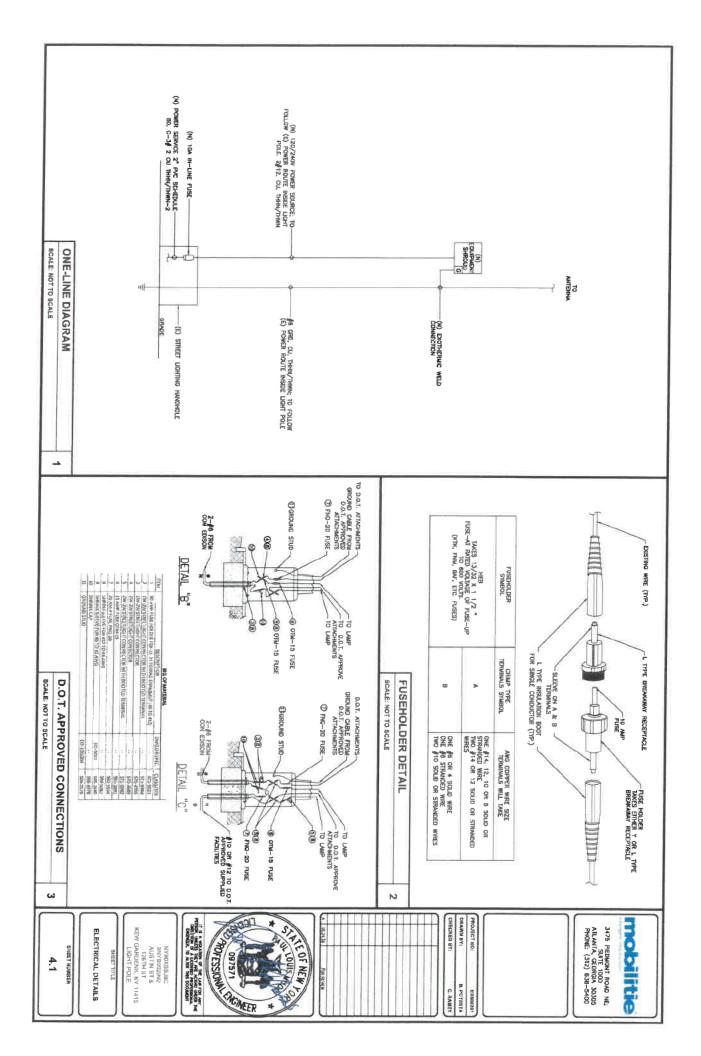
NY90XS6JBC 9NY800Z992 AUSTIN ST & 126 FH ST KEW GARDENS, NY 11415 LIGHT POLE

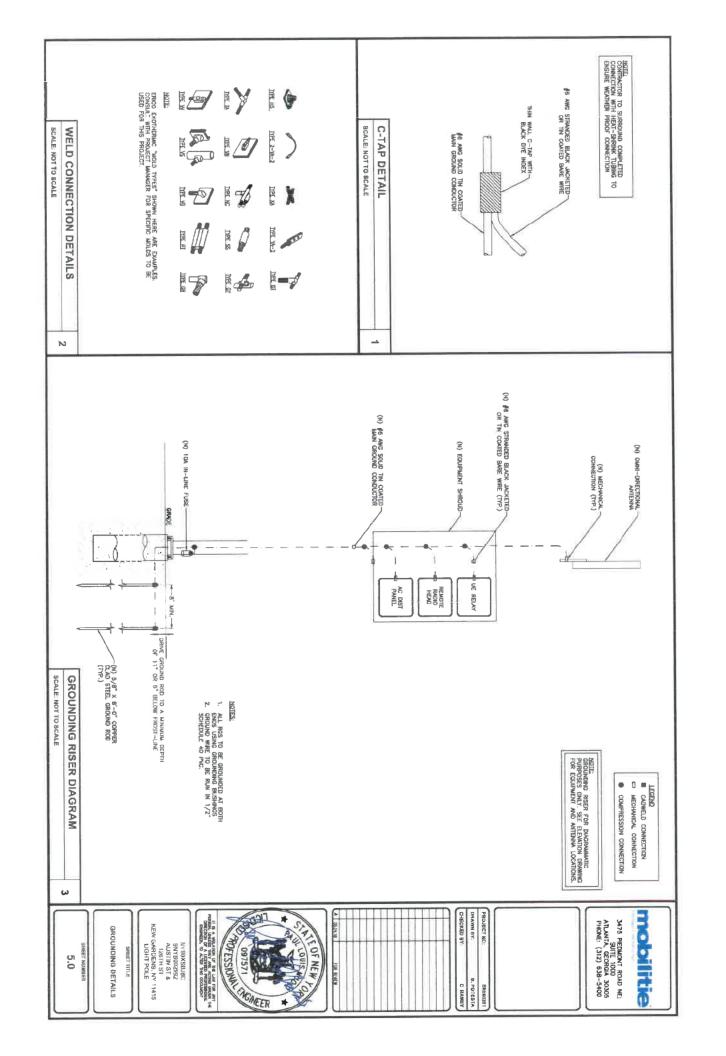
SHEET TITLE

GENERAL NOTES

GN-3







Çħ ÷ 2. EXTEND CHANNELIZATION DEMOES INTO SHOULDER WHERE APPLICABLE.
3. DISTANCES AS INDICATED IN TABLE 1. SHOULD BE INCREASED FOR CON-PLAN NOTES: DISTANCES AS INDICATED IN YABLE 1 SYCULD BE INCREASED FOR CONDITIONS THAT WOULD AFFECT STOPPING, DISTANCE SUCH AS DOMINGANCES ON LIMITED SIGHT DISTANCES, DAYANCES CAN BE DECREASED FOR LOW-SPEED (RESIDENTINL) AREAS WITH APPROVAL BY THE AUTHORITY HAVING UNESSCITION, MIGHT-TIME WORK OF PROVINITED VILLESS IT IS REQUIRED AS A CONDITION OF APPROVAL BY THE HIGHWAY AND LOCAL AUTHORITY HAVING JURISDUSTORS OF RESPONSIBLES. PLANS DEPICTED ANE GENERAL GUIDELNES FOR TEMPORARY VEHICULAR TRAFFIC CONTROL PLANS (TCP) TO INCLUDE PEDESTRIAM AND WORKER SAPETY. CONTRACTOR IS REQUIRED TO HAZE REPEARED A SITE-SPÉCIFIC TCP PER RECYEM, AND APPORAL, BY THE HIGHAMAY AUTHORITY MANNOL MIRISICITION. IF RECYMEND, THE FIRM PREPARING THE TCP SHALL BE AUTHORIZED OR CERTIFED BY THE AUTHORITY HANNOL JURISDICTION. SHOULDER TAPERS SHOULD BE 1/3 OF THE ON-STREET TAPER LENGTH MAINTAIN A MINIMUM LANE WIDTH OF 10'. 自身 VTILITY WORK AHEAD WORK CABIN DO NOT BLOCK TRAFFIC FLOW (ALLOW 10' MINIMUM) (N) CHANNELIZING DEVICES (TYP.) PARKING & WORK AREA (E) BIKE LANE.
NARROW PARKING LANE
OR SHOULDER AVAILABLE UTILITY WORK AHEAD **CURBSIDE PARKING** SCALE: NOT TO SCALE VEHICULAR TRAFFIC CONTROL PLAN -UTILITY WORK AHEAD 19 A) OSMAYCES IN FEET UNLESS OTHERWISE NOTED.

B) COMPINACIDE TO JERRY (E) SPEED UMT.

C) HISTANCES SHOWN ARE NOT WALD FAIR LABRED ACCESS.

C) HISTANCES SHOWN ARE NOT WALD FAIR LABRED ACCESS.

D) AGO SET SHAWCES IN COMPANY WITH REQUIREMENT OF JURISONCION. SEEN NOTE J. MEET IN-C.

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D) AGO SET SHOW SEEN NOTE J. MEET J SPEED (MPH) E) TAPER LENGTHS SHOWN BASED ON 12' LANE WIDTH, SEE NOTE 18, SHEET TC-2. - SIGN DISTANCE BETWEEN SIGNS TAPER 720 780 780 BUFFER ADFESSION CHE DRAWN BY: СНЕСКЕВ ВҮ: IT IS A VICANION OF THE LAW FOR ANY PRINCIPL, UNLESS THEY ARE ACTING UNLESS THE ALEXAND INFORMATION OF THE LAW FOR A LAW FOR THE SOUTHWAY. Sixte of New York NY90XSBJBC 9NYBJ0Z992 AUSTIN ST & 126TH ST KEW GARDENS, NY 11415 LIGHT POLE 3475 PIEDMONT ROAD NE. SLITE 1000 ATLANTA, GEORGIA 30305 PHONE: (312) 638~5400 nobilitie VEHICULAR TRAFFIC CONTROL PLAN SHEET NUMBER SHEET TITLE 6.0 FOR HIVER ERSOUZO1 B. POTESTA C. RAMEY

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TRAITIC CONTROL GENERAL NOTES

- ALL TEMPORARY TRAFEC COMPTOL SIGNAGE, LAYOUTS
 AND PROCEDURES SHALL COMPLY WITH LOCAL
 AMBISTOCHMAL RECUREMENTS AND MANUAL OF UNIFORM TRAFFIC
 CONTROL DEVICES (MUTCD), LATEST EDITION, WHICHEVER IS MORE STRINGENT.
- PRIOR TO ANY ROAD CONSTRUCTION, TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE IN PLACE.
- TRAFFIC CONTROL DEVICES FOR LANE CLOSURES INCLUDING SIGNS, CONES, BARRICADES, ETC. SHALL BE PLACED AS SHOWN ON PLANE SIGNS SHALL NOT BE PLACED WITHOUT ACTUAL LANE CLOSURES AND SHALL BE IMMEDIATELY REMOVED UPON REMOVAL OF THE CLOSURES.
- SELECTION, PLACEMENT, MAINTENANCE, AND PROTECTION OF TRAFFIC PRESENTANCE, AND WRONEDS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM PRAFFIC CONTROL DEVICES (MUTCD) PART IN TEMPORARY TRAFFIC CONTROL DEVICES, MUTCD)—PART IN TEMPORARY TRAFFIC SOMITOR WITH SHALL AND SECURIORATION SHALL BE APPROVED BY THE APPROPRIATE HIGHWAY AND AURISON AND SHALL BE APPROVED BY THE APPROPRIATE HIGHWAY AND AURISON AURISON.
- ADVANCE WARNING SIGNS, DISTANCES, AND TAPER LENGTHS MAY BE EXTENDED TO ADJUST FOR REDUCED MISBLUTY DIE TO HORZONTAL AND VERTICAL CHRONATURE OF THE ROADWAY AND FOR ACTUAL TRAFFIC SPEEDS IF IN EXCESS OF POSTED SPEED LIMITS.
- TAPERS SHALL BE LOCATED TO MAXIMIZE THE VISIBILITY OF THEIR TOTAL LENGTH.
- ALL (E) ROAD SIGHS, PAYEMENT MARKHOS AND/OR PLOWABLE PAYEMENT REFECTORS WHO! COMPTICE THAT HE (N) TRAFFIC CONTROL PLAY SHALL BE COVERED REMOVED, OR RELOCATED ALL TRAFFIC COMPRIA DROCKS SWALL BE RESTORED TO MAINTEN FREE-CONSTRUCTION CONDITION AFTER COMPLETION OF WORK. CONFLICTING OR NON-OPERATING SIGNAL INDICATIONS ON THE (E) TRAFFIC SIGNAL SYSTEMS SHALL BE BAGGED OR COVERED.
- CONTRACTOR SHALL CONTACT LOCAL AUTHORITY HAVING HIGHWAY JURISDICTION AND PROVIDE ADDITIONAL "FLAGMEN" OR POLICE SUPERVISION, IF REQUIRED.
- ALL EXCLANTED AREAS WITHIN OR ADJACCHT TO THE ROADWAY
 SHALL BE BLOKFILLED AND PLACED DW. A WHIMIM BE IT VILIPE
 PROPERTY OF EXCLANDED BY THE DESCRIPTION OF A
 WHIMIN THE CLEAR EVOIR ARE TO BE ETHERS BACKFILLED OR
 PRECISET CONNETTE CURB BARRIER CONSTRUCTION BARRIER ST.
 TLEFORARILY N. PLACE TO SHIELD VEHICULAR AND PEDESTRIAN
 TRAFFIC.
- WHERE DICTATED BY LOCAL CONDITIONS, THE CONTRACTOR SHALL MAKE PROVISIONS FOR MAINTAINING PEDESTRIAN AND WORKER CROSSING LOCATIONS IN ACCORDANCE WITH ALL APPLICABLE COCES AND OSHA REQUIREMENTS. CONSTRUCTION ZONE SPEED LIMIT IF REDUCED FROM POSTED LIMITS SHALL BE IN ACCORDANCE WITH MUTCD AND WILL BE DETERMINED BY THE AUTHORITY HAVING JURISDICTION.
- THERE SHALL BE NO WORKERS, EQUIPMENT, OR OTHER VEHICLES IN THE BUFFER SPACE OR THE ROLL AHEAD SPACE.

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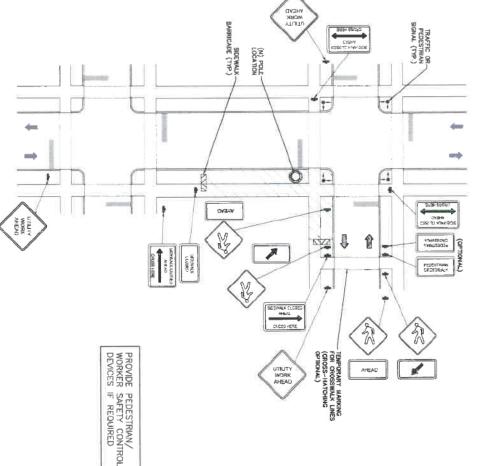
- DRIVEWAYS AND/OR SIDE STREETS ENTERING THE ROADWAY AFTER THE FIRST ADVANCE WARNING SIGN SHALL BE PROVIDED WITH AT LEAST ONE WZO-1 SIGN (ROAD WORK AHEAD) AS A MINIMUM.
- COMES MAY BE SUBSTITUTED FOR DRUMS AND INSTALLED UPON THE APPROVAL OF THE AUTHORITY HAVING JURISDICTION PROVIDED THEY COMPLY WITH MUTCO.

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- THE SPACING BETWEEN COMES, TUBILIAN MARKERS, VERTICAL PARELS, DRIMES, AND BARROLADES SHOULD NOT EXCEED A DISTANCE IN FEET EQUAL TO 1.0 THES THE SPEED LIMIT IN MICH MERSI USED FOR TAPER CHANNELIZATION, AND A DOSTRANGE IN REET ECUAL ID 2.0 MILES THE SPEED LIMIT IN MICH TUBILIZATION. AND A DOSTRANGE IN REET ECUAL ID 2.0 MILES THE SPEED LIMIT IN MICH WEEN USED FOR TANGENT CHANNELIZATION.
- ä 17. WHEN CHANNELIZATION DEVICES HAVE THE POTENTIAL OF LEADING VENEGLIAR TRAFFIC SPACE, IT OF THE MYTENGED VENEGLIAR TRAFFIC SPACE, THIS THE SPECID DEVICES SHOULD BE EXTRACTED A DISTANCE OF METET OF 20 THIS THE SPEED LIMIT IN MAY BEYOND THE DOWNSTREAM END OF THE TRANSTION AREA.
- TAPER LENGTHS ARE CALCULATED AS FOLLOWS:

 L= WS*/B0 (40 MPH AND HIGHER) OR L2= WS (OVER 40 MPH),

 WHERE W= OFFSET WIDTH (FT), S= TRAFFIC SPEED (MPH).



mobilitie

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PEDESTRIAN SAFETY PLAN

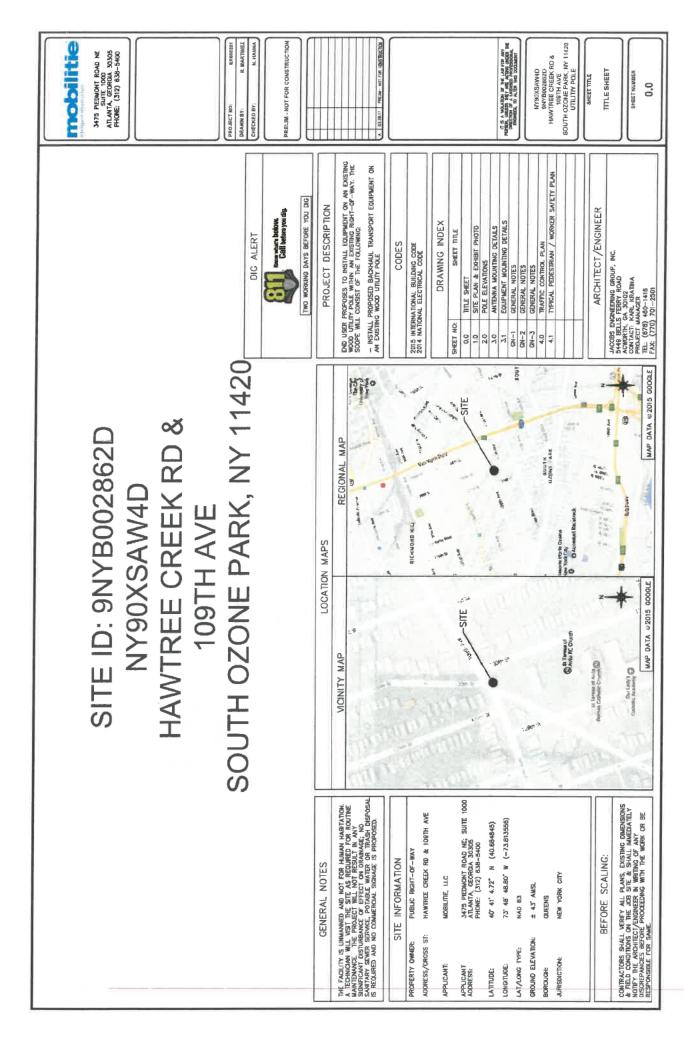
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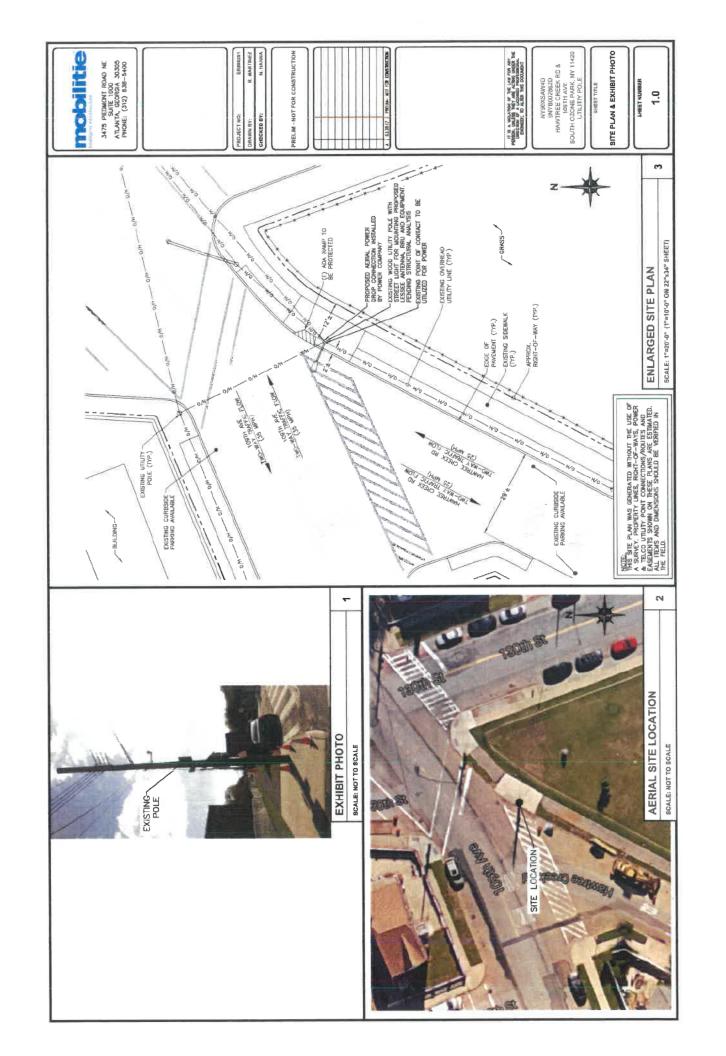
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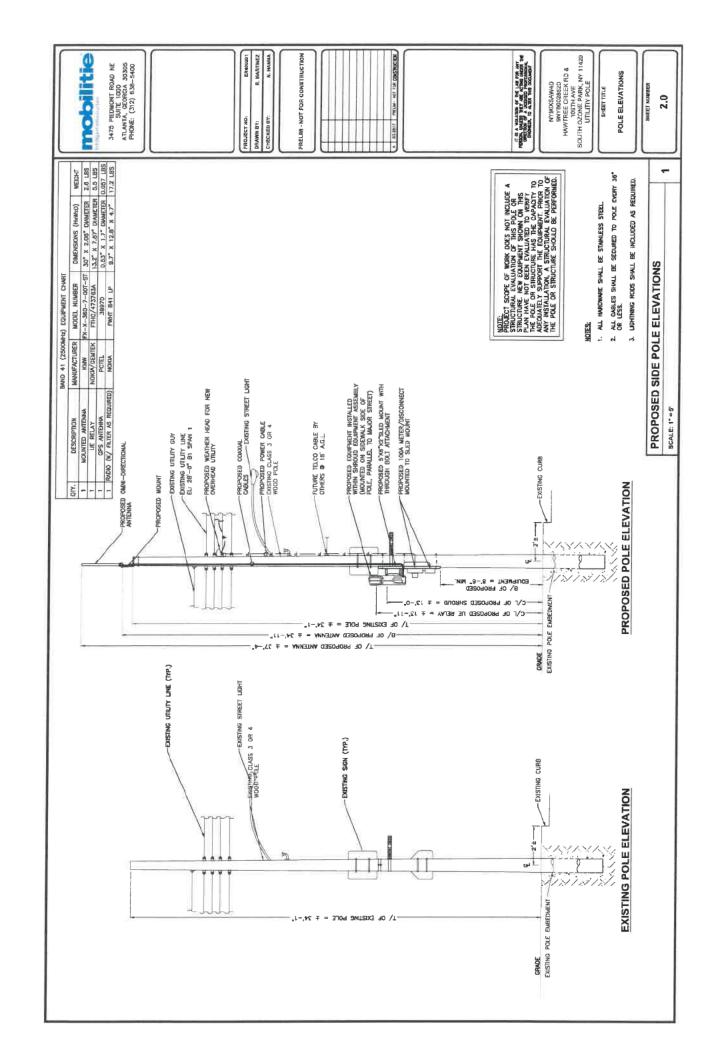
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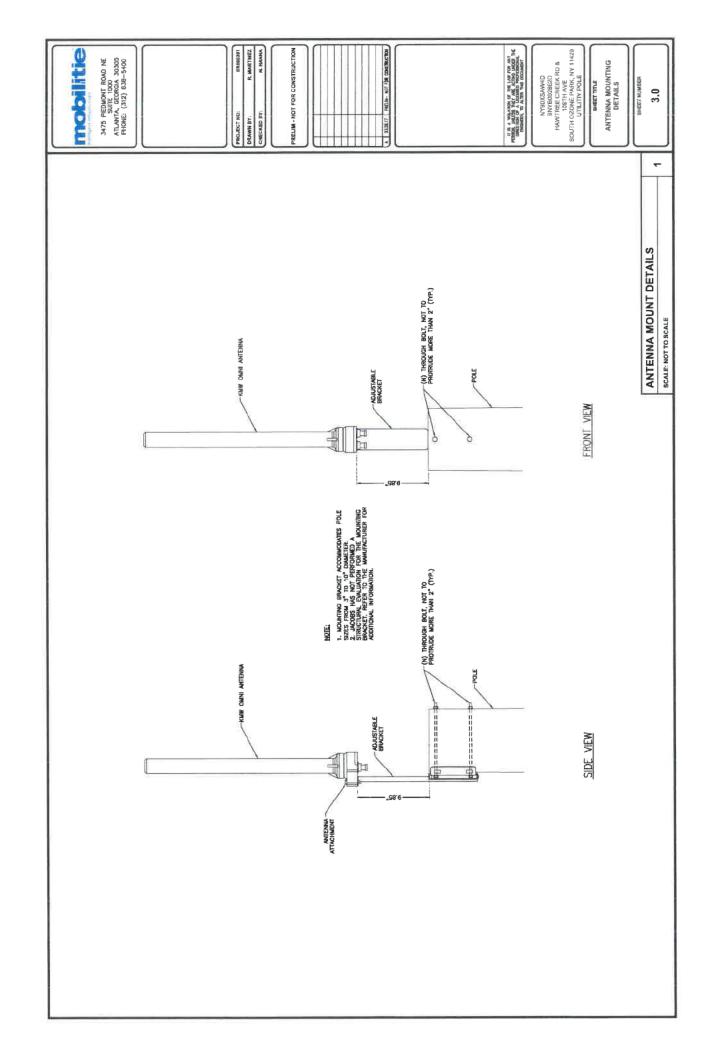
TYPICAL PEDESTRIAN / WORKER SAFETY PLAN

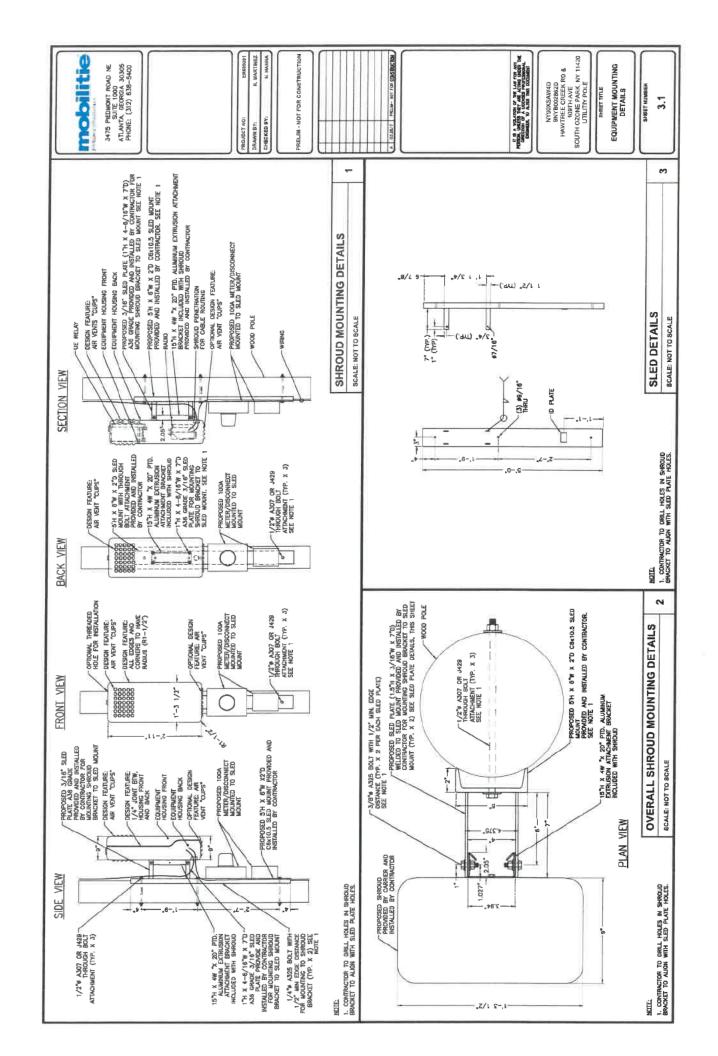






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CONSTRUCTION DOCUMENT DRAWINGS ARE INTERRELATED. WHEN PERFORMEND THE WORK, CONTRACTOR MUST REFER TO ALL DRAWINGS, COORDINATION IS THE RESPONSIBILITY OF GENERAL CONTRACTOR. 물질물

GENERAL REQUIREMENTS

PART 1 - GENERAL

- 1. OBTAIN AND SUBAIT RELEASES ENABLING THE OWNER UNRESTRICTED USE OF THE WORK AND ACCESS TO SERVETS AND UTILITIES; INCLUDE COCCUPANCY PERMITS, OPERATING COCCUPANCY PERMITS, OPERATING COCCUPANCY PERMITS, OPERATING COCCUPANCY PERMITS, OPERATING CONTROLLED SUBAING FOR THE COCCUPANCY PROPERTY SURVEY, AND SUBAING FOR INCIDENTAL CITY IN RECORD INFORMATION. THE COMMENT FOR PERMITS SUBAINT INCLUDING TOLCH-UP ANOTHER, TOWN THE CITY OF REQUIREMENT INCLUDING TOLCH-UP ANOTHER. TOWN TO DITHOUGH OF THE CONTROLLED SUBAINT SUBAI

PART 2 - FINAL CLEANING

- 1. COMPLETE THE FOLLOWING CLEANING OPERATIONS BEFORE REQUESTING INSPECTION FOR CREMIPACING MY COMPLETION.

 A CLEAN THE PROJECT SITE, YARD AND GROUNDS IN AREAS DISTURBED BY CONSTRUCTION ACTUATION. IN ACCURATION COMPLETION CONSTRUCTION ACTUALING INCLUDING UNCOCKNESS OF SHEER ACCURATION CONTRIBUTION CONTRIBUTION.

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SITE WORK

PART 1 - GENERAL

- 1. WORK INCLUDED. SEE SITE PAN.
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 TO RECOMMENDED. EAST MAINTENED TO PROVIDE A WELL DRAWNED, EAST MAINTENED. EVEN SURFACE
 TO RECOMMENDED.

 3. QUALITY MAINTENED TO PROVIDE A WELL DRAWNEND, EAST MAINTENED.

 A RECOMMENDER IN ACCORDANCE WITH MANAFACTURER'S

 R. APPLY AND WANTAN GASS SED AS RECOMMENDED BY THE SEED PRODUCER

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 CONSTRUCTION MANAGER. AND LODA. AUTHORITIS.
 APPLY SOR STERLIZER AND MILCH ALL AREAS DISTURBED BY CONSTRUCTION
 (INCLUDING UNDERREQUID UTILITY ELEMENTS). MESO. STEEL REPROMENTAMESO. SEED. FETRILIZE. AND MILCH ALL AREAS DISTURBED BY CONSTRUCTION
 (INCLUDING UNDERREQUID UTILITY ELEMENTS). MESO. STERMER RODAMEN.
 AFTER APPLICATIONS OF FINAL SURFACES, APPLY SOIL STERMIZER TO STONE
 AFTER APPLICATIONS. ರದ

- A BEORE CONSTRUCTION: F LANDSCAPING IS APPLICABLE TO THE CONTRACT.
 A SUBBIL TWO COPIES OF THE LANDSCAPE PLAN ON INTESSEY LETTERHELD. IF A
 LANDSCAPE ALLOWANCE WAS INCLUDED IN THE CONTRACT, PROVIDE AN ITEMIZED
 LUSTIM OF PROPERCED COSTS ON MINSERY LETTERHELD.

 A AFIRE CONSTRUCTION

 MANUFACTURER'S COSTS OF PRODUCT AND WARRANTY

 STATELET ON SOIL STEMLER.

 2. MANUFACTURER'S DESCRIPTION OF PRODUCT ON GRASS SEED AND 5. SUBMITTALS A. BE
 - - - 5. LANDSCAPING WARRANTY STATEMENT
- 6. WARRANTY
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 C. DISTRICTION FROM DATE OF RINAL WISPECTION.
- D. LANDSCAPING, IF INCLUDED WITHIN THE SCOPE OF THE CONTRACT, WILL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL INSPECTION.

PART 2 - PRODUCTS

1. MATERIALS A. SOIL STERLIZER SHALL BE EPA-REGISTERED, PRE-EMERGENCE LIQUID:

PHASAR CORPORATION

TOTAL KILL

P.O. BCM 5123 DEARBORN, MI 48126	FRAMAR INDUSTRIAL PRODY 1435 MORRIS AVE. LINION: N.I. OZDR3
PRODUCT 910 EPA 10292-7 (313) 563-8000	AMBUSH HERBICIDE EPA REGISTERED

B. ROAD AND SITE MATERALS SHALL CONFORM TO STATE AND LOCAL DOT SPECIFICATIONS THE MATERAL (MALES OF MEMBER WOTED) — ACCEPTABLE SECTOT THE SHALL BE M ACCORDANCE WITH STATE DEPARTMENT OF MATHWAY SECTOT MATERIAL OF MATHWAY CO. SOIL STREAMER PRINC SHALL BE MANY DOOD.

(800) 528-4924

PART 3 - EXECUTION

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 S. MERSEL UNSTAGES SOULCE AS A SEST WITCHERD, UNE THE AREAS WITH A PROPERTY OF PLL OR BASE WITCHELL.
 3. INSTALLATION OF A PROPERTY OF PLL OR BASE WITCHELL.
 A CLEAR EXCESS SPOILS. FARM FORD. 1. INSPECTIONS: LOCAL BUILDING INSPECTIORS SYALL BE WOTHED NO LESS TIVAN 48 HOURS. IN ADMINED OF CONDERE SPECIFED BY JURISDICTION 2. PREPARATION.

- ALATION OF DECESS SCOULS, IF ANY, FROM JOB SITE AND DO, NOT SPREAD BEYOND A THE LINE OF TRACKET AREA VALLESS AUTHORIZED BY FROACET MANAGETS NOT MANEET TO BE LANDOWNER.

 B. ALACE THE ON STORE IN SIX NOT (67) MANIBUM INTS, AND COMPACT BEYONE CAPACT SEED, PRETINGER DESIGNATION NEAT LITTLES. AND STORM COMPACT SINESD PROACES TO THE STORM SEE PREPARED.

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 4. FIELD OLIVENT COMPLETE COMERNEE IS OBTIVABLE.

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HAWTREE CREEK RD & 109TH AVE SOUTH OZONE PARK, NY 11420 LTILITY POLE

GENERAL NOTES

SHEET NUMBER GN-1

- 1. CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS PRIOR TO ORGERING THE ELECTRICAL, EDUBARTAT AND STATEMED THE ACTUAL CONSTRUCTOR, CONTRACTOR SHALL SISULE A WITTEN WORDE OF ALL FINITINGS TO THE ARCHITECT/PROBREE LISTING ANY DISCREDANCES OF ORGANIZATION OF THE ARCHITECT/PROBREE LISTING ANY CONTRACTOR SHALL BE THE ARCHITECT/PROBREE PRIOR TO CONTRACTOR, AND ENGRALMANT ONLY. VERSIVE EXACT CONTRACTOR, AND ENGRALMANT ONLY. VERSIVE EXACT CONTRACTOR OF BARY SYSTEM SHALL BE PREMAMENTO TO THE THE OF THE ARCHITECTURE OF THE CONTRACTOR OF BARY SYSTEM SHALL BE VERSIVE THAT AND THE OFFICE THE CONTRACTOR OF THE SHALL BE THE OFFICE THAT ARCHITECTURE OF THE CONTRACTOR OF THE SHALL BE THE OFFICE THAT ARCHITECTURE OFFI CONTRACTOR OF THE SHALL BE WARRANTONEN, SHALL BE USETED CLIC. WHE APPROVAL OF ALL GOVERNMEN SHALL BE USETED CLIC. WHEN AND IN DOOD WORKING CONDROW WHIN HOS SHALL BE WARRANTONED IN ADDRESSING WITH APPROVAL OF ALL GOVERNMEN SHALL BE USETED CLIC. WHEN APPROVAL OF ALL GOVERNMEN SHALL BE USETED CLIC. WHEN APPROVAL OF ALL GOVERNMEN SHALL BE USETED CONTRACTOR OF THE CO

SERVICE AND DISTRIBUTION

- WIRE AND CABLE CONDUCTORS SHALL BE COPPER, BOOK, TIVE THINN OR THINN, WITH A WILL SIZE OF \$12 AMO, COLOR COOLD.

 BETER SOCKE THEFERS, VOLVAGE, NUMBER OF PHASES SHALL BE NOTED ON THE DRAWNING MANUFACTURED BY MILBANK OR APPROVED EQUAL, AND SHALL BE UTILITY COULDIN.
- A RIGHO CONDUIT SHALL BE UL LIABD, GALMANIZED ZING COATED WITH CALLAMANIZED ZING ONDER THE WALK AND SHALL BE USED WISER IN SHALL BY ON LIABOR SOURCETTE STARS. IN CONTROL WITH THE DATE WITH THE DATE WITH THE WALK AND SHALL BE USED WISER IN GUING CONTROL WITH THE WALK BY A LIABOR SHALL BE "LIABOR BE WITH THE WALK BY A LIABOR SHALL BE "LIABOR BY PROCESS NO. 3.

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- A. PREPARATION: ALL CONNECTIONS SHALL BE LAUGE TO BANE HETAL.

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WHEN THE DRECTION OF THE CONDUCTOR MUST CHANGE, IT SHALL BE DONE THE THEN SHALL BE DONE TO ACCORDANCE WITH THE POLLOWING CHART: 5

RADIUS TO INSIDE EDGE	6 INCHES 8 INCHES 12 INCHES 24 INCHES
GROUNDING CONDUCTOR SIZE	NO. B AWG TO NO. 4 AWG NO. 2 AWG TO NO 1/0 AWG NO. 2/0 AWG TO 4/0 AWG 250 MCM TO 750 MCM

GROUNDING RESISTANCE TEST REPORT: UPON COMPLETION OF THE TESTING FOR EACH STITL, A TEST REPORT SYNOWN RESISTANCE IN OHASE MISTER ES LIBBAITED. TWO (2) SETS, TEST DOCUMENTS FROM THE INDEPENDENT TESTING STRANCE ARE TO BE BOUND AND SUBMITTED WITHIN OME (1) WEEK OF WORK COMPLETION.

POLES, POSTS, AND STANDARDS (SINGLE MAST AND SELF SUPPORTING TOWERS)

- LIGHTNING ROD AND EXTENSION PPE INCLUDING ALL APPURTENANCES, TO BE REMONSTED BY OWNER, IF REQUIRED. GEOLOGY GROUDED METAL, POLES WITH A MINIMAL MORE SAND THINED SOLD BARE COPPER CONDUCTOR CADMELLÓE TO TOMER BASE PLATE. 1. GENERAL œi

TELECOMMUNICATIONS WIRING COMPONENTS (COAXIAL ANTENNA CABLE)

- ALL MATERNAS, PRODUCTS OR PROCEDURES INCOPPORATED INTO WORK SYMALE BY HEW AND OF STRIKHAND COMMERCIAL, QUAL, MATERNAS, DAY PRODUCTS SPECIFIED IN THE CONTRACT DOCUMENTS. SHALL BE SUPPLIED BY THE CONTRACTOR UNLESS NOTED CHERRISES. CENERAL

- STALL BE SUPPLIED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

 A COMMAL CANAL CONCAL CABLE AND TERMINATORIS BETWEEN ANTENWAS INSTALL COMMAL CABLES SUPPORTED AT NO MORE THAN Y-O" O.C. WASTARRENOOD ALL COMMACTURER'S RECOMMENDATIONS WITH COMMAL CABLE SUPPORTED AT NO MORE THAN Y-O" O.C. WASTARRENOOD ALL COMPACTURER'S RECOMMENDATIONS WITH COMMAL CABLE THAN EXPECTOR SETTINGS.

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 3. ANTENNA AND COMMAL CABLE GROUNDING THE RECOMMENDATION OF THE THAN OF COMMAL CABLE GROUNDING THAN SET OF COMMAL CABLE (NOT WITHIN BENDS).

 4. COMMAL CABLE DISTRIBUTION AND UNIFORM MARKANG OF ANTENNA CABLE (NOT WITHIN BENDS).

 5. COMMAL CABLE STAND OF CEUR AT THE COMMING THAN OF THE COMMAN CABLE (NOT WITHIN BENDS).

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GENERAL NOTES

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UTILITY NOTES

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CODES, PERMITS AND FEES.

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N.E. ALL AMOTONAL FIRE PROTECTION ASSOCIATION

RACEMAYS. AND WIRING.

1. WIRING OF EVERY KIND WIST BY NETALED IN CONDUIT, UNLESS NOTED OTHERWISE, OR AS APPROVED BY THE ARCHITECT/PROBREER.

2. UNLESS OTHERWISE SPECIFIED, ALL WRING SHALL BE COPPER (CU) TYPE THINK, SIZED IN ACCORDING, WITH THE MATIONAL ELECTRICAL CODE AND LOCAL COORS.

3. MACEN'S SHALL BE CALIVATIZED STELL SIZED IN ACCORDING WITH THE MATIONAL ELECTRICAL CODE AND LOCAL CODES MALES OTHERWISE WOTED. ALL PACIFICATE AND LOCAL CODES MALES OTHERWISE WOTED. ALL PACIFICATE STELL SIZED WISE AND LINE AND ADDRESS FOR SECURIOR OF ACCENTANT AND WINNER PROMISE AUGUST AND PREFINENT AND EFFECTIVELY COMPLY AND UNEITH OF ACCENTANT AND WINNER PROMISE CAN END AND AUGUST AND SEFFECTIVELY CODE AND LOCAL COORDONER. WITH ARCH AND AUGUST AND SEFFECTIVELY CODE AND LOCAL COORDONER. WITH ARCH AND AUGUST AND SEFFECTIVELY CODE AND LOCAL COORDONER. WITH ARCH AND AUGUST AND SEFFECTIVELY CODE AND LOCAL COORDONER. WITH ARCH AND AUGUST SALL SEE BONDED AT BOTH ENDS WITH GROUNDING BUSHING.

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SERVICE AND MOTES.

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COORGINATION WITH JITLITY CAMPLANT.

COORGINATION WITH JITLITY CAMPLANT.

COMMUNICATION CONTROL CAMPLET TO THE PROPERTY INCLUDION TRANSFORMER
COMMUNICATION.

STEEL NOTES

- NECORRECTLY FABRICATED DAMAGED OR OTHERWISE MIS-FITTING OR NOR-CORPORABMEN MATERIALS OR COMMITTION STATE REPORTED TO THE PROCESSOR MANAGER FROM TO REMEDIAL OR CORRECTIVE ACIDING. STEEL SEGMAN MACKER FROM TO REMEDIAL OR CORRECTIVE ACIDING. STEEL CONSTRUCTION OF STEEL CONSTRUCTION AND MISCLALMED STEEL CONSTRUCTION AND MISCLALMED STEEL CONSTRUCTION.

 STRUCTURAL AND MISCLALMED STEEL SHALL CONFORM TO ASTA ASG. STRUCTURAL STEEL. TOWN BULLDINGS, LATEST EDITION, UNLESS OTHERWISE MOCATED.

 4. ALL PRES SHALL CONFORM TO ASTA ASO OR ASS STEEL IS NOT AVAILABLE.

 5. ALL INFECURAL STELL, LATEST EDITION, UNLESS OTHERWISE MOCATED.

 7. SHOC CONNECTIONS SHALL BE ASS, UNKINS OF STRUCTURAL STRUCTURAL STELL CONFORM TO ASTA ASO OR ASS STEEL IS NOT AVAILABLE.

 6. ALL INFECURAL STELL CONFORM TO ASTA ASO OR ASS STEELS NOT STRUCTURAL STELL CONFORM TO ASTA ASO OR ASS STEELS NOT STRUCTURAL STRUCTURAL STRUCTURAL STELL CONFORM TO ASTA ASO OR ASS STEELS ON STRUCTURAL STRUCTURAL STELL CONFORM TO ASTA ASS OTHERWISE WITHOUT STRUCTURAL STRUCTU

ANTENNA INSTALLATION NOTES

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3475 PIEDMONT ROAD NE SUITE 1000 ATLANTA, GEORGIA 30305 PHONE: (312) 638--5400

- 1. ALL HARDWARE, FASTERERS AND COMPONENTS SHALL BE PAINTED THE COLLOR OF THE INSTALLATION, CONTRACTOR SHALL TOUGH UP PAINT AS REQUIRED.

 2. STICKERS AND LABLS, ARE NOT PERMITTED ON THE ANTENNA, MOUNT OR FIRER BOX CONTRACTOR SHALL REMOVE STICKERS AND TOUGH UP PAINTED SURFACES, AS REQUIRED.

 3. ANTENNA, MOINT SET SCREWS SHALL BE INSTALLED AS ALLOR TO THE POLE AS PREACTIONAL, CONTRACTOR SHALL USE THE SHORTEST LENGTH BOJ. TO SCREWS LOCK THREADD CONNECTIONS; OTHERS LOCK SLIP COMMECTIONS; OTHERS LOCK SLIP

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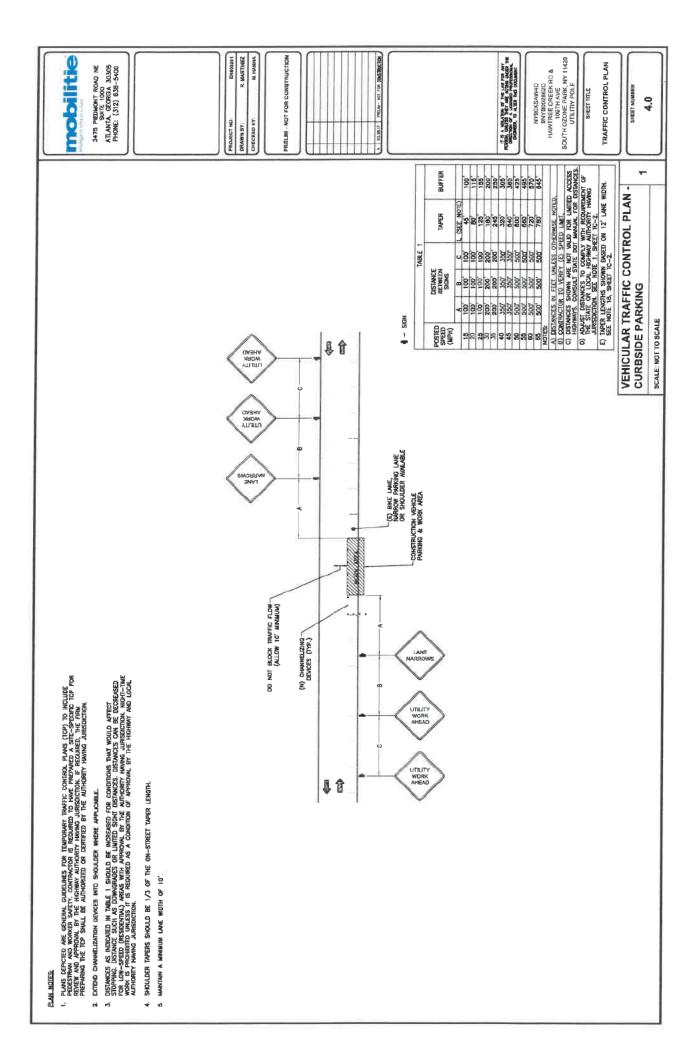
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SOUTH OZONE PARK, NY 11420 UTILITIY POLE 9NYB002862D HAWTREE CREEK RD & 109TH AVE NY90XSAW4D

SHEET TITLE

GENERAL NOTES

SHEET NUMBER GN-3



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TRAFFIC CONTROL GENERAL MOTES

ALL TEMPORARY TRAFFIC CONTROL SIGNAGE, LAYOUTS
AND PROCEDURES SALL CONJUEY WITH LOCAL
LURISCHOWL ECUIPELENTS AND MANUAL OF UNFORM TRAFFIC
CONTROL DENCES (MUTCI), LATEST EDITION, WHICHEVER IS MORE STRINGENT.

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3475 PIEDMONT RDAD NE SUITE 1000 ATLANTA, GEORGIA 30305 PHONE: (312) 538-5400

R. MARTINEZ

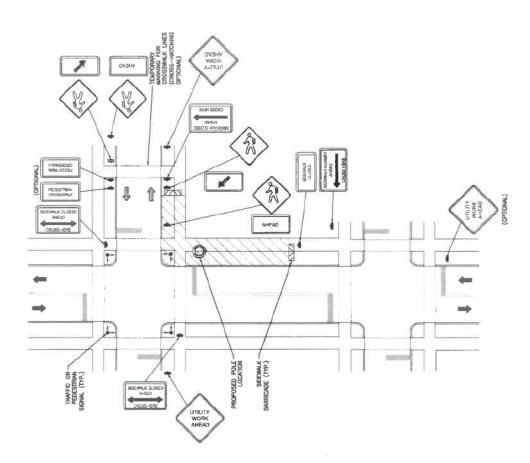
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- PRIOR TO ANY ROAD CONSTRUCTION, TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE IN PLACE.
- TRAFFIC CONTROL DENCES FOR LANE CLOSURES INCLUDING SIGNS, OOMES, MENCHOLES, ESCHIER FANDS SIGNS SIMIL HAY ELOSAFES AND SIGNS SIMIL HAY ELOSAFES AND SHALL HOT BE PLACED WITHOUT ACTUAL LANE CLOSAFES AND SHALL BE HAMEDMATELY RELAVONED UPON RELIGIOAN. OF THE CLOSAFES.
- SEECTION, PLACEDENT, MANTENANCE, AND PROTECTION OF TRAFFIC, PEGESTRANDARS, AND WINGERS SHALL BE IN ACCORDANCE WITH THE MANUAL OF LURFORM TRAFFIC CONTROL, AND LOOAL, JURESCITCHON, TRAFFIC CONTROL, AND LOOAL, JURESCITCHON, SECURIORISM, AND SECURIORISMS, MOIDD IN THE PLAKE AND SECURIORISMS, AND SECURIO
- ADVANCE WARNING STANS, DISTANCES, AND TAPER LENGTHS MAY BE SKETNEDD IN DAJJUST FOR REDUCED VISBILLY DUE OF DIGHZONTAL, AND VERTICAL CURANTURE OF THE ROADMAY AND FOR ACTUAL, TRAFFIC SPIEDS IF IN EXCESS OF POSTED SPEED LIMITS.
 - TAPERS SHALL BE LOCATED TO MAXIMIZE THE VISIBILITY OF THEIR TOTAL LENGTH.
- CONFLICTING OR NON-OPERATING SIGNAL INDICATIONS ON THE EXISTING TRAFFIC SIGNAL SYSTEMS SHALL BE BAGGED OR COVERED.
- ALL EXISTING ROAD SIGNS, PAREMENT MARKINGS MAID/OR PLONMELE PROMELE THE FREGORIES THEORY CONTROL PLANS SIGNAL BE GOVERED, REMONDO, OR RELOCATIOD. ALL TRAFFIC CARRIADORD, OR MATCH PRE-CONSTRUCTION COMMITTON FOR CONSTRUCTION OF WITCH.
- CONTRACTOR SHALL CONTACT LOCAL AUTHORITY HAVING HIGHWAY JURISDICTION AND PROVIDE ADDITIONAL "FLAGMEN" OR PCLICE SUPERVISION, IF REQUIRED.
- ALL EXCANATED AREAS WITHIN OR ADJACENT TO THE ROLDWAY SYALL BE SACKLED AND PAUGOD ON A MINIMAL METHY SCOPE PROPR TO DAY OF EACH WORK DAY, OTHER EXCANATED AREAS WITHIN THE CLUEA TO STATE AREA OF PRECISET CONVERTE CARD MARRIER CONSTRUCTION BANKRER SON TEMPORATION OF THE CONTRACT CONVERTE CARD SHARING CONSTRUCTION BANKRER SON TEMPORATION OF THE STRUCK TO STRUCK THE CONTRACT AND PEDESTRUMY TRAPFOL. 10.
- WHERE DICTATED BY LOCAL CONDITIONS, THE CONTRACTOR SHALL MAKE PROVISIONS FOR MANTANING PEDESTRAIN AND WORKER CROSSING LOCATIONS IN ACCORDANCE WITH ALL APPLICABLE CODES AND OSFAR REQUIREMENTS.
- CONSTRUCTION ZONE SPEED LIMIT IF REDUCED FROM POSTED LIMITS SHALL BE IN ACCORDANCE WITH MUTCO, AND WILL BE DETERMINED BY THE ALTHORITY HANNES, LURISDICTION. ğ
- THERE SHALL BE NO WORKERS, EQUIPMENT, OR OTHER VEHICLES IN THE BUFFER SPACE OR THE ROLL AHEAD SPACE. ń
- DRINEWAYS AND/OR SIDE STREETS ENTERING THE ROADWAY AFTER THE FIRST ADVANCE WARNING SIGN SHALL BE PROVIDED WITH AT LEST ONE WZD-1 SIGN (ROAD WORK AMEAD) AS A MINIMUM.
- CONES MAY BE SUBSTITUTED FOR DRUMS AND INSTALLED UPON THE APPROVAL OF THE AUTHORITY HAWING JURISDICTION PROVIDED THEY COMPLY WITH MUTICD. ė
- THE SPACING ENTERS CONES, TUBLUA MAKERS, VESTICAL, PARELS, ORBANA, AND ARROQUES SACOLLO. NOT DICEED. A DISTANCE IN FEET EQUAL TO 1.0 THEST THE SPEED LUMIT IN MAIN THEN WEND USED TO'R THEIR THE SPEED LUMIT IN MAIN THEN THE SPEED LUMIT IN MAIN THEN THE SPEED LUMIT IN MAIN WELL USED FOR TANDERT CHANNELLATION.

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- WHEN CHANNELIZATION DENGES HAVE THE POTENTIAL OF LEADING VEHICLIARA TRAFF, COLT OF THE METINED VEHICLIAR TRAFF SPACE. THE CHANNELIZATION DENGES SHOULD BE CYTENDOD A DISTANCE IN FEET OF 2.0 THIES THE SPEED LIMIT IN MPH BEYOND THE DOWNSTREAM END OF THE TRANISTION APEA.
 - TAPER LENGTHS ARE CALCULATED AS FOLLOWS: L= WS/SO (40 MPH AND HIGHER) OR L2= WS (OVER 40 MPH), WHERE W= OFFSET WIDTH (FT), S= TRAFFIC SPEED (MPH).



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TYPICAL PEDESTRIAN / WORKER SAFETY PLAN

SCALE: NOT TO SCALE

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TYPICAL PEDESTRIAN / WORKER SAFETY PLAN

HAWYTREE CREEK RD & 108TH AVE SOUTH OZONE PARK, NY 11420 UTILITY POLE

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Innovative Company

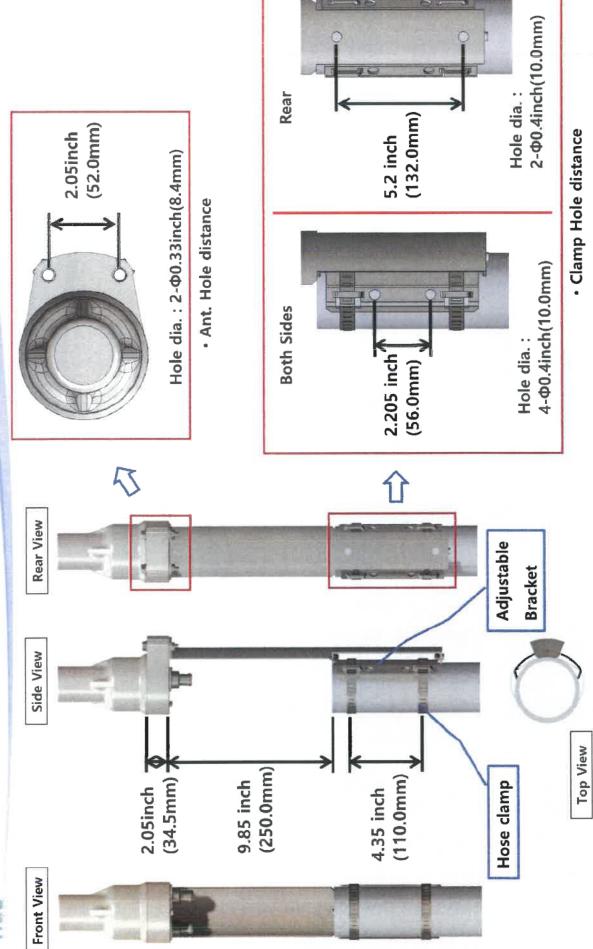
KMW is an innovative and dynamic company In wireless communications. (www.kmw.co.kr)

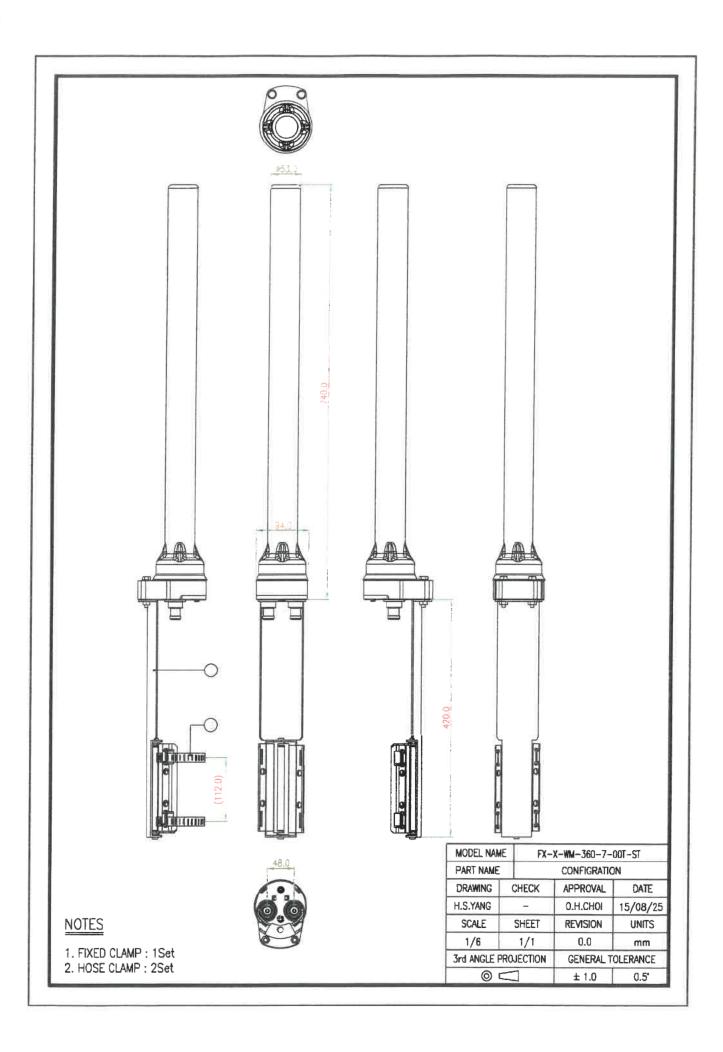
Mount for Omni Antenna

11/25/15



Mount for Omni Antenna







Outdoor LTE Relay iRelay 460

Airspan's iRelay 460 (iR460) is an innovative standards compliant LTE relay solution.

iR460 is part of the iRelay family, providing a compact Category 6 UE Relay solution which supports multi-band radios to connect to a combination of different Macro eNB.

Innovative features including Plug and Play, Steerable Narrow Beam Antenna, Best Serving eNB Selection, and Mounting assembly significantly reduce the time and experience level to deploy a wireless backhaul solution.

LTE compliant interface minimizes the impact to the existing network architecture, whilst maintaining the same security and reliability requirements.



The Power of HETNETS

As operators struggle to cope with growing customer demand for higher throughput, they are discovering that layering small base stations into a macro cell coverage area, enables a significant increase in network capacity by filling in coverage gaps and addressing actual traffic distribution where demand is highest, iR460 is an ideal back hauf solution for the AirHarmony eN8

Integrated Backhaul

iR460 is connected to the AirHarmony eNB via a GigE port supporting data and power (PoE). Tight integration with Airspan's AirHarmony further reduces the deployment time and provides a seamless backhaul for connection with Airspan's element management system.

Relay 460 Datasheet







Variant	Dimensions ¹ (H x W x D)
	Height 330mm (13inches)
iR460 (excluding mounting brackets)	Diameter 200mm (7inch)

Weight

Variant	Dimensions
Main unit	4 Kg / 8.8 Lbs.
Universal mounting bracket (Including pole straps)	0.5 Kg / 1.1 Lbs.

Operational Tolerances

Туре	Details	Standard Compliance	
Operating temperature	-45°C to 60°C	ETSI 300 019 1-4	
Operating humidity	5% - 100% non-condensing	ETSI 300 019 1-4	
Storage temperature	-45°C to 70° C	Non Operational Test	
Storage humidity	5% - 100% non-condensing	ETSI 300 019 1-4	
Rain and dust ingress protection	IP67	ETSI 300 019 1-4	
Operational altitude	70-106 kPa as well as: From -60m to 1800m @ 40°C From 1809m to 4000m @ 30°C	ETSI 300 019 1-4	
Solar radiation	1120 W/m ²	ETSI 300 019 1-4	

Voltages and Amperage Draws

Mode	Nominal Power Consumption (W)
Max (Scan Mode)	16
Typical (Relay Mode)	12

¹ Dimensions excludes connectors height and protruding screws Page 2 of 5





iR460 contains an integrated steerable, XPOL antenna.

The steerable antenna is a cross polarised (dual slant) design which supports multiple frequency bands.

Steerable Antenna performance

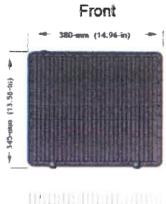
	Band 25	Band 41
Polarisation	Dual slant	Dual slant
Polarisation Discrimination	15dB	18dB
Boresight Gain	8dBi	12dBi
Front to back ratio	18dB	25dB
Azimuth HPBW	65 degrees	35 degrees
Elevation HPBW	65 degrees	35 degrees
Co & X-Pol RPE	EN302-326-3 Class DN2	EN302-326-3 Class DN3
Grounding	DC Grounded	DC Grounded

Steerable Antenna Characteristics

	Parameter
Azimuth Range	360 degrees
Azimuth Resolution	≤1 degrees
Pointing Speed ≥60 degrees/sec	
Duty Cycle / Hour	≤25%
Duty Cycle / 24 Hours	≤5%



FW2CA 850 MHz 2 x 20W Micro BTS







Back

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Bottom

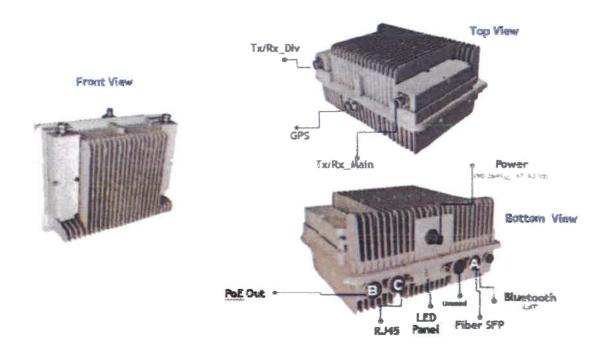


Product	Flexi Zone Micro Outdoor
8ackhaul	100/1000 Base-T Copper and Fiber Port Types: 2 RU45 Ethernet, 1 SFP based Fiber (PoE will be supported on one of the RU45 ethernet ports) SFPs1 Supported: SX, LX, BX, G-PON, E-PON
Antenna	Configuration: 2Tx / 2Rx MIMO Type: integrated Directional, Remote Antenna Connector: 4.1/9.5 Mini-DIN GPS Connector: N-Type Female
Local Maintenance Ports	Bluetooth or Unused RJ45 Port
Input Power	90 - 264 VAC
Status Indicators	Status, Backhaul, Tx
Power Consumption	Max 350W Typ. 290W
Mounting Options	Wall or Pole Mount
Emission	TS36.104 Rev-11 Wide Area

ing a cempres 5 mg/, and \$1.547 paragrumpe in the resign with resign 2.70 mg/ 8.70 mg/ 3.10 mg/ 8.70 mg/ 9.10 mg/ 8.70 mg/ 9.10 m



FWHR 2500 MHz 2 x 20W Micro BTS





Product	Flexi Zone Micro Outdoor
Backhaul	100/1000 Base-T Copper and Fiber Port Types: 2 RJ45 Ethernet, 1 SFP based Fiber (PoE Out will be supported on one of the RJ45 ethernet ports) SFPs' Supported: SX, LX, BX, G-PON, E-PON
Antenna	Configuration: 2Tx / 2Rx MIMO Type: Remote (Customer Provided) Antenna Connector: 4.1/9.5 Mini-DIN GPS Connector: N-Type Female
Local Maintenance Ports	Bluetooth or Unused RJ45 Port
Input Power	90 — 264 VAC
Status Indicators	Status, Backhaul, Tx
Power Consumption	Max: 360W; Typ: 290W
Fans	No
Mounting Options	Wail or Pole Mount
Emission	TS36.104 Rev-11 Wide Area

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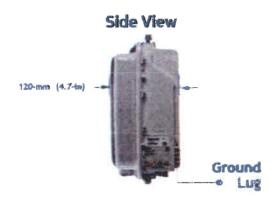
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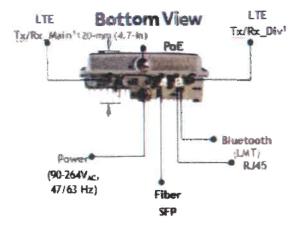
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FWHT 2500 MHz 2 x 5W Micro BTS



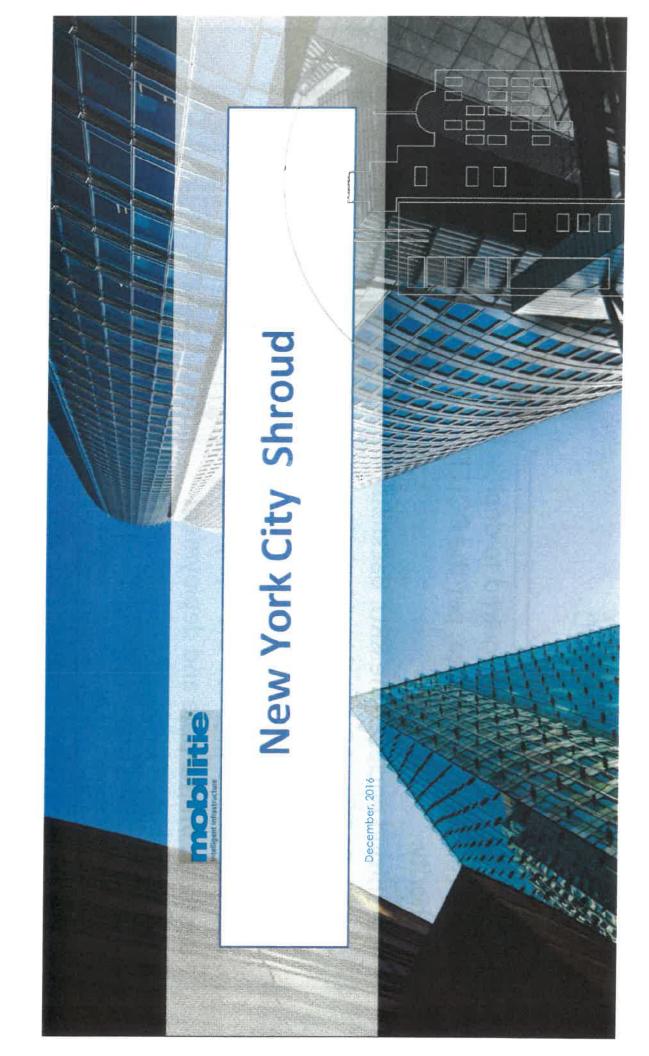






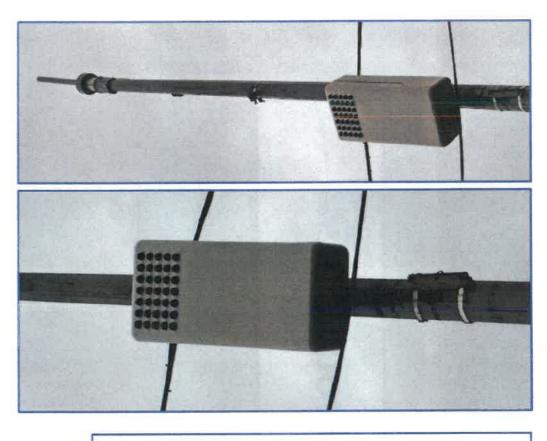
Product	Flexi Zone Micro Outdoor
Backhaul	100/1000 Base-T Copper and Fiber Port Types: 2 RJ45 Ethernet, 1 SFP based Fiber (PoE will be supported on one of the RJ45 ethernet ports) SFPs1 Supported: SX, LX, BX, G-PON, E-PON
Antenna	Configuration, 2Tx / 2Rx MIMO Type: Omni, Panel, Remote Antenna Connector: 4.1/9.5 Mini-DIN GPS Connector: N-Type Female
Local Maintenance Ports	Bruetooth or Unused RJ45 Port
Input Power	90 - 26 × VAC
Status Indicators	Status, Backhaul, Tx
Power Consumption	Max: 135 // Typ: 125W
Fans	No
Mounting Options	Walt or Pole Maunt
Emission	TS36.104 Rev-11 Medium Area

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NYC STREET POLE SHROUD SOLUTION

- This design solution is required to deploy small cells in the NYC area, per the DOITT authority.
- The shroud encloses the RRU, Backhaul unit(s), RF filter, AC panel and isolation transformer in one RF transparent material shell.
- It is intended to improve the equipment aesthetic on the pole and deployment process.



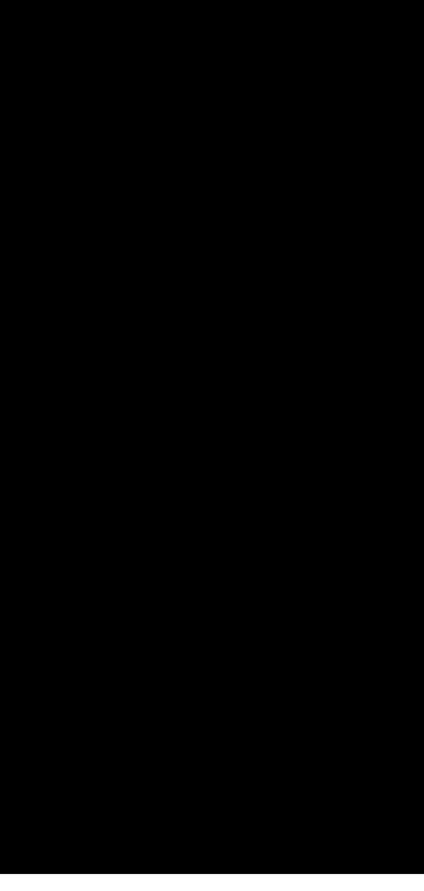


PREASSEMBLED COMPONENTS

The Shroud units will be shipped to market with all internal components preassembled prior to delivery. The GC will be responsible to finalize the cable entry and connections in the shroud, between components and RF antenna, AC power, and ground lead.

The primary configuration will consist of components displayed here:

ADDITIONAL OEM EQUIPMENT CONFIGURATIONS





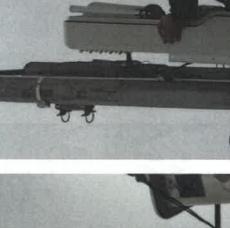
ONSITE ASSEMBLED COMPONENTS – Antenna and RF coax

Carefully pull the 18" RF cable and ground cable through the previously drilled hole.

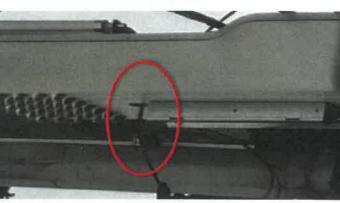
entry into the shroud Ready the cables for

and ready to terminate Pull through the cables once shroud is mounted

Mount the Shroud with (2) 3/" Solid Stainless Steel Banding straps











ONSITE ASSEMBLED COMPONENTS – Antenna and RF coax

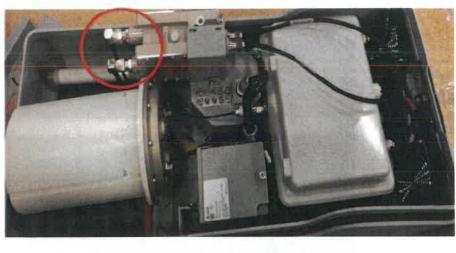
Finalize the mounting of the shroud to the pole, ensuring the Chase Nipple conduit is secured into the shroud

Route and Terminate the RF cables onto either the RF Filter or the Nokia Radio if no filter is installed.

Terminate the ground cable onto the ground point in the shroud





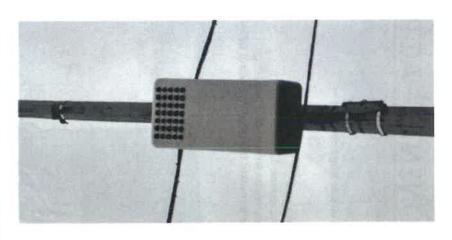




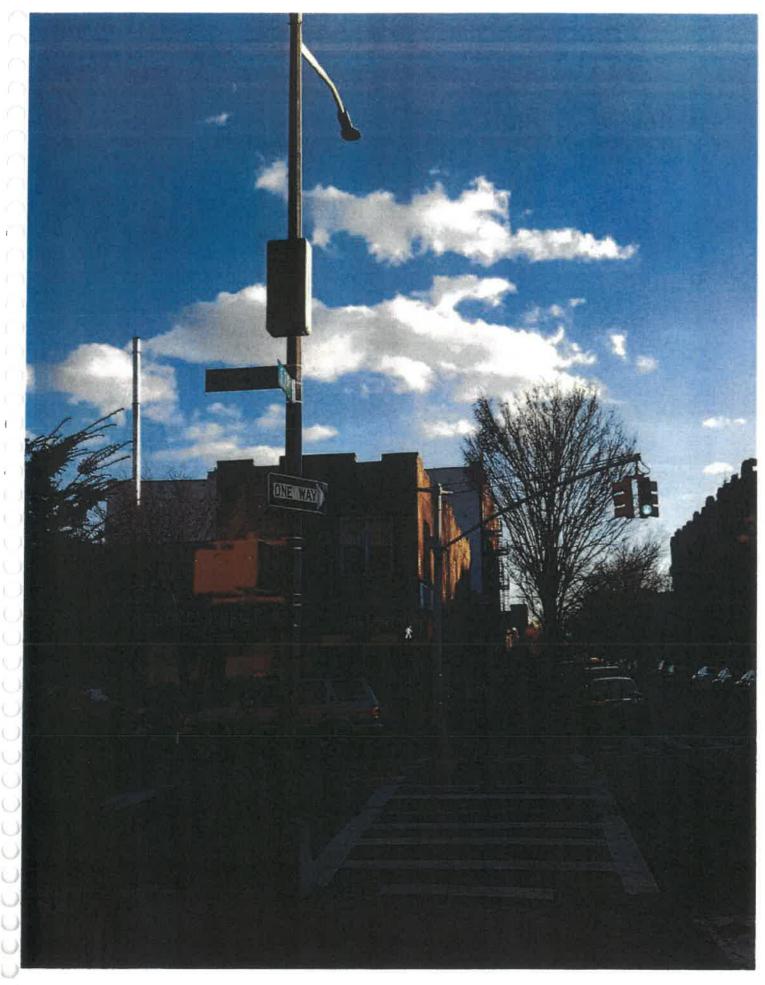
Final Items

Once all activities and Testing been completed and the CIC releases you from the site Make the final closure of the shroud and use the security latch to complete the covering.

Do not use Combo or Pad locks.

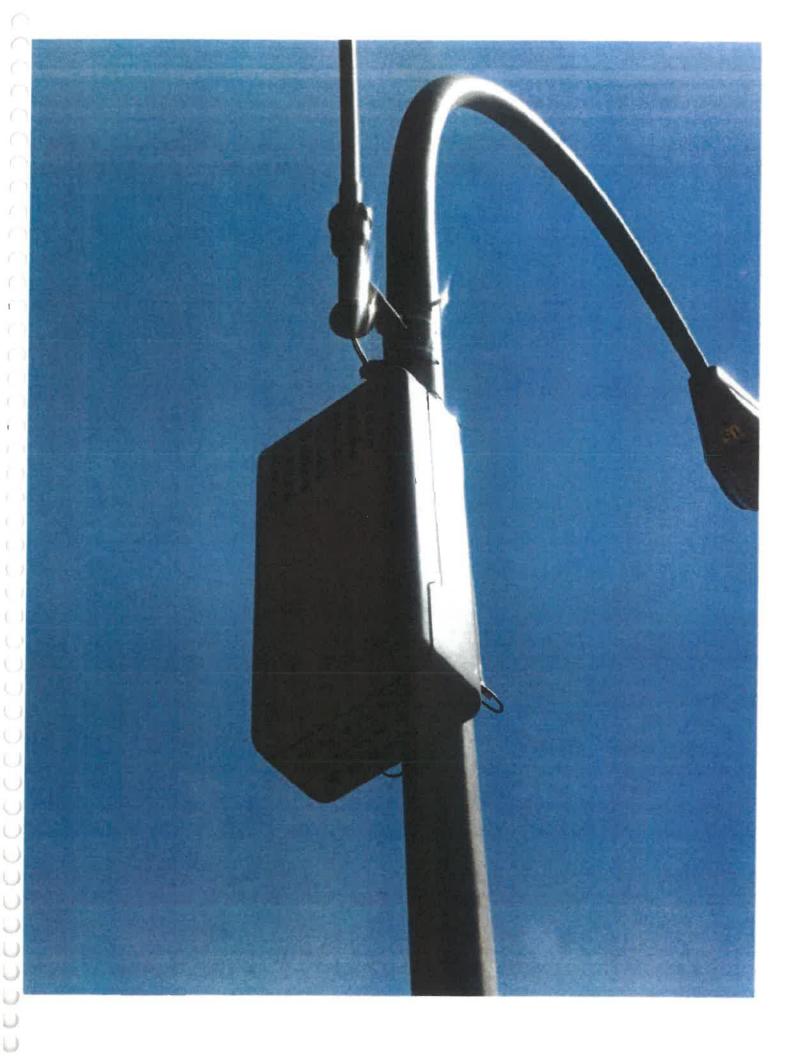


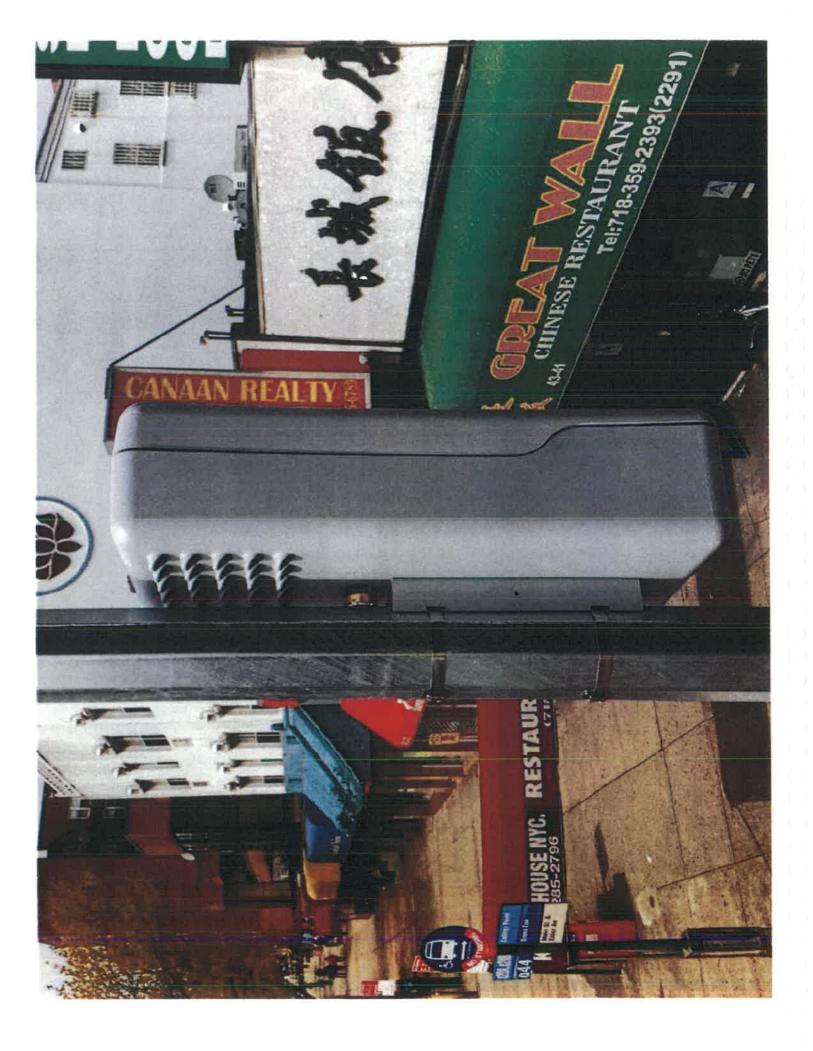


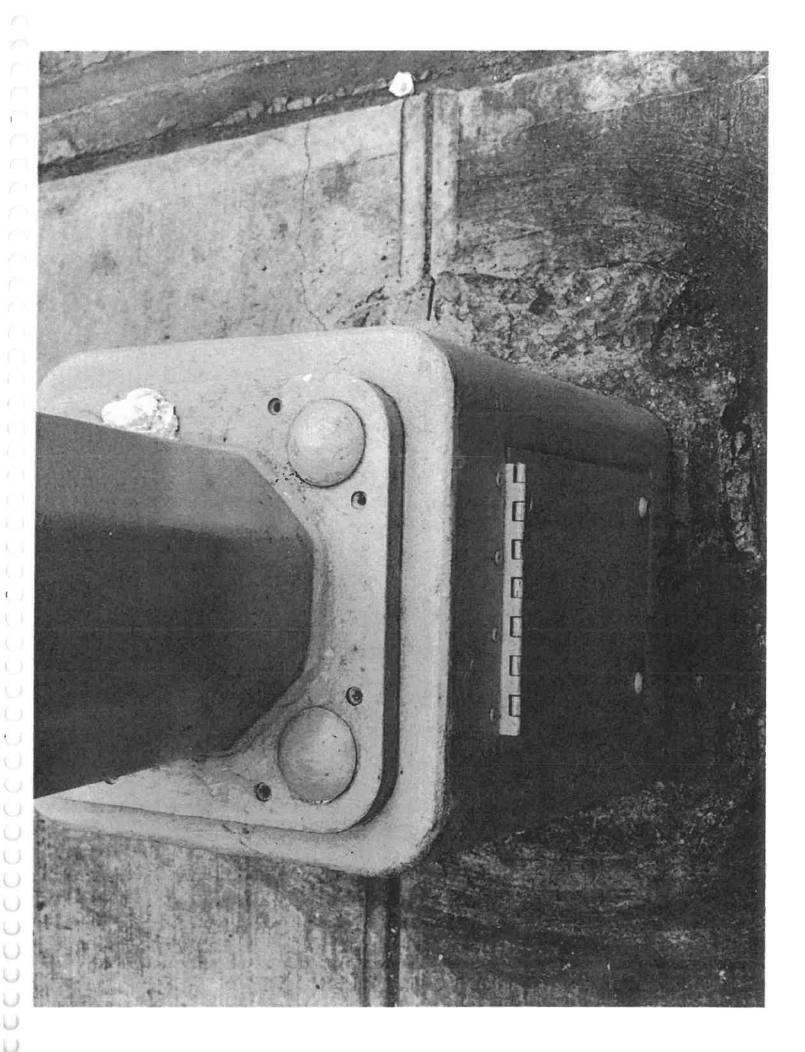


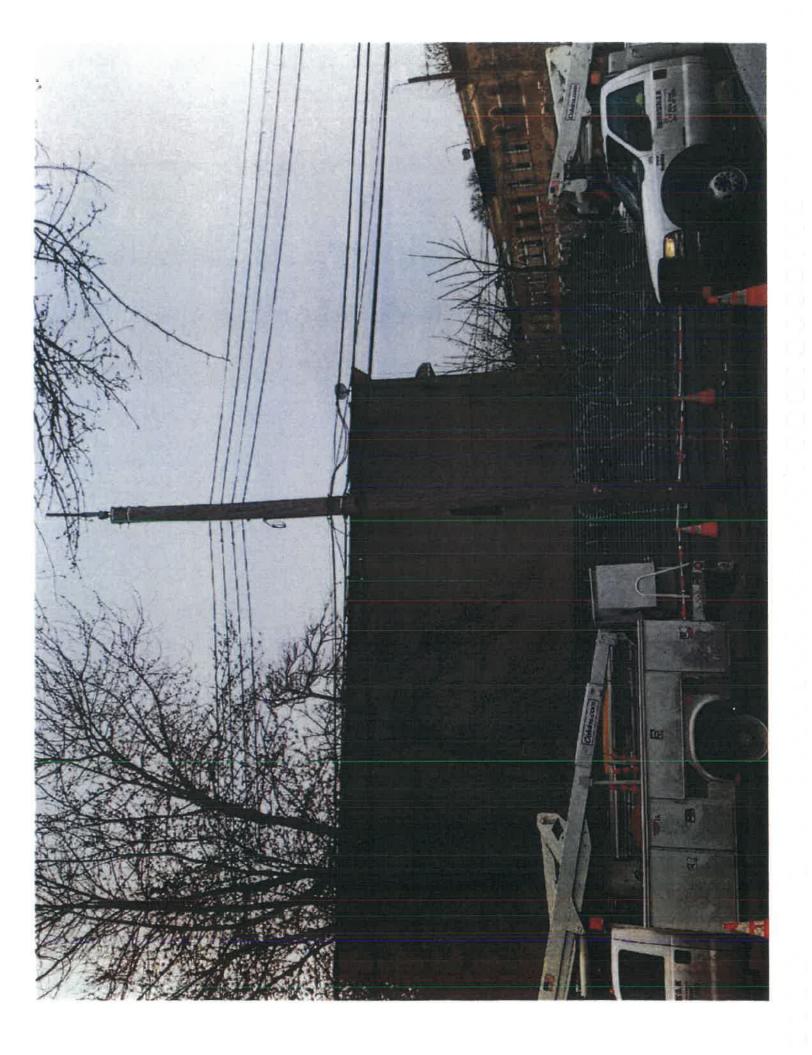
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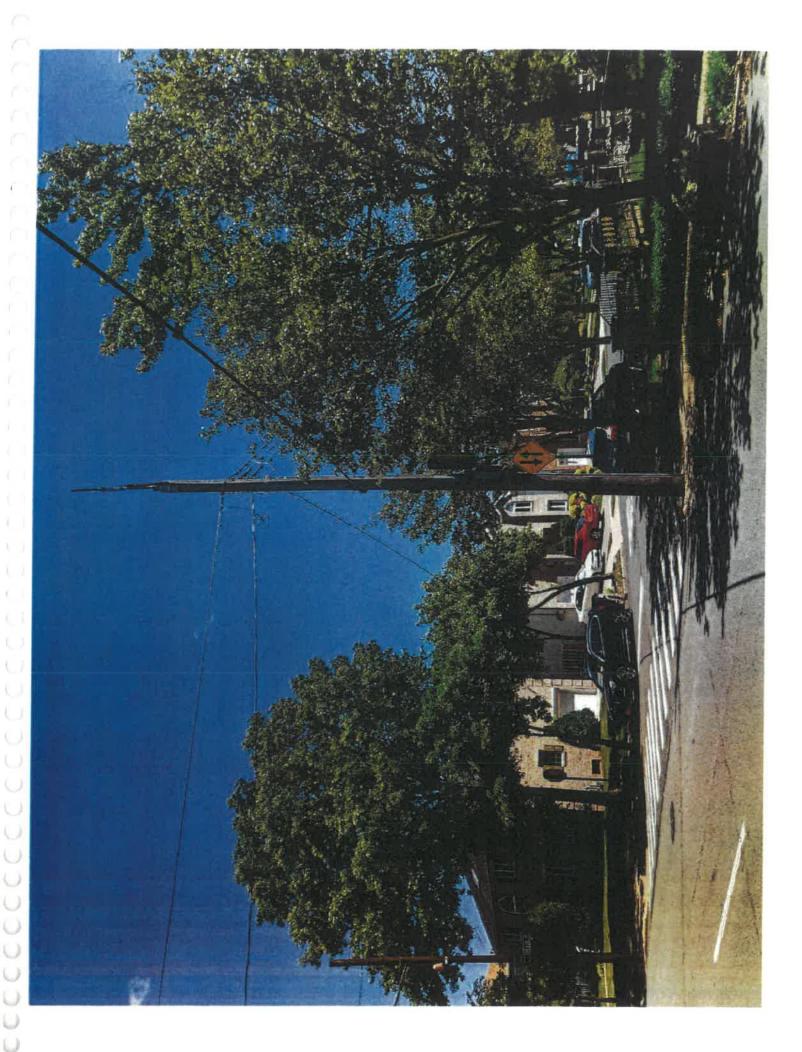




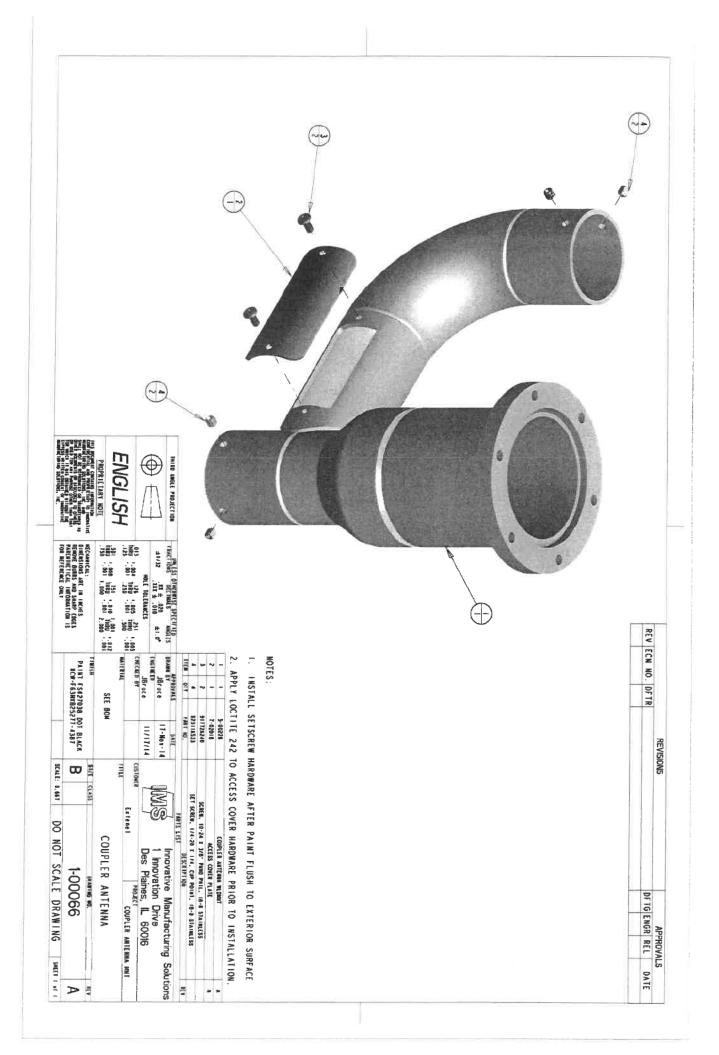


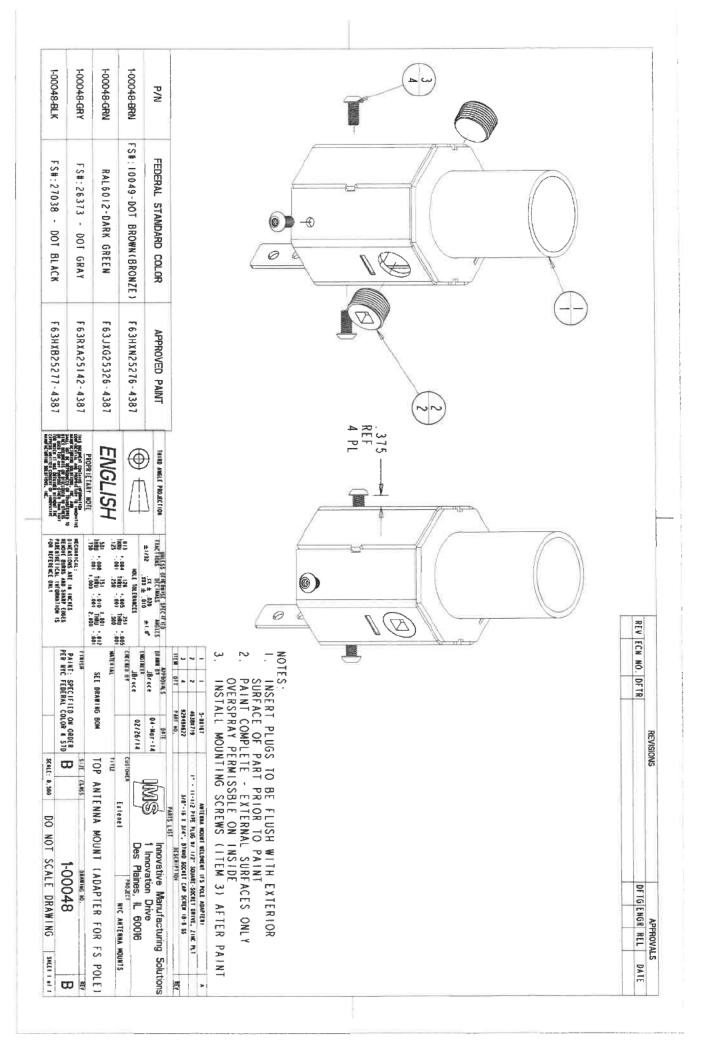


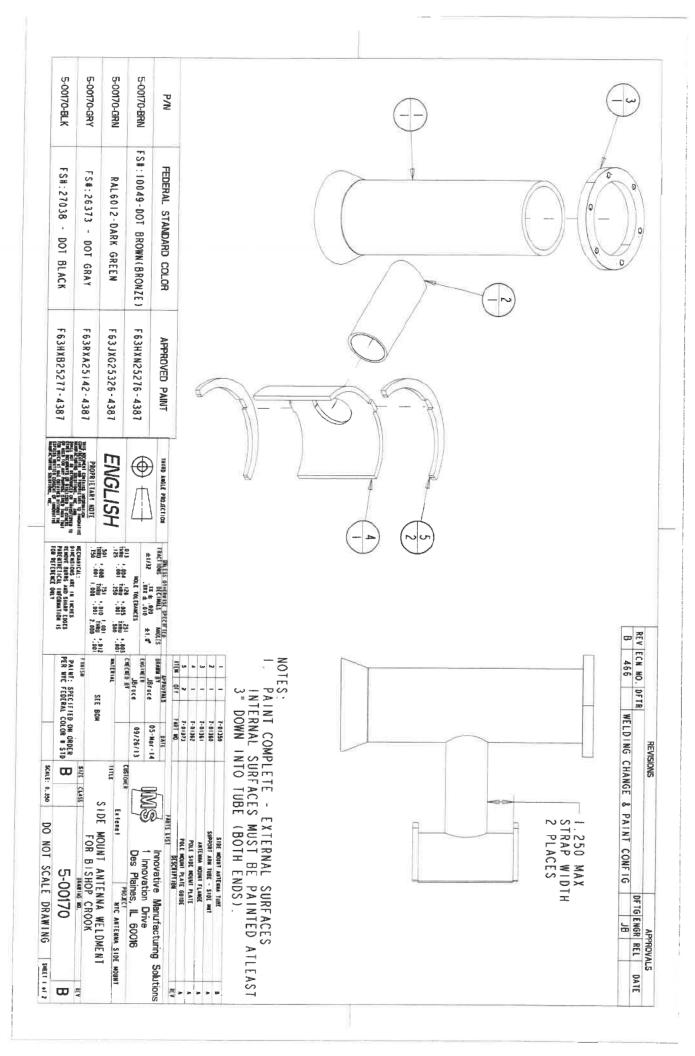




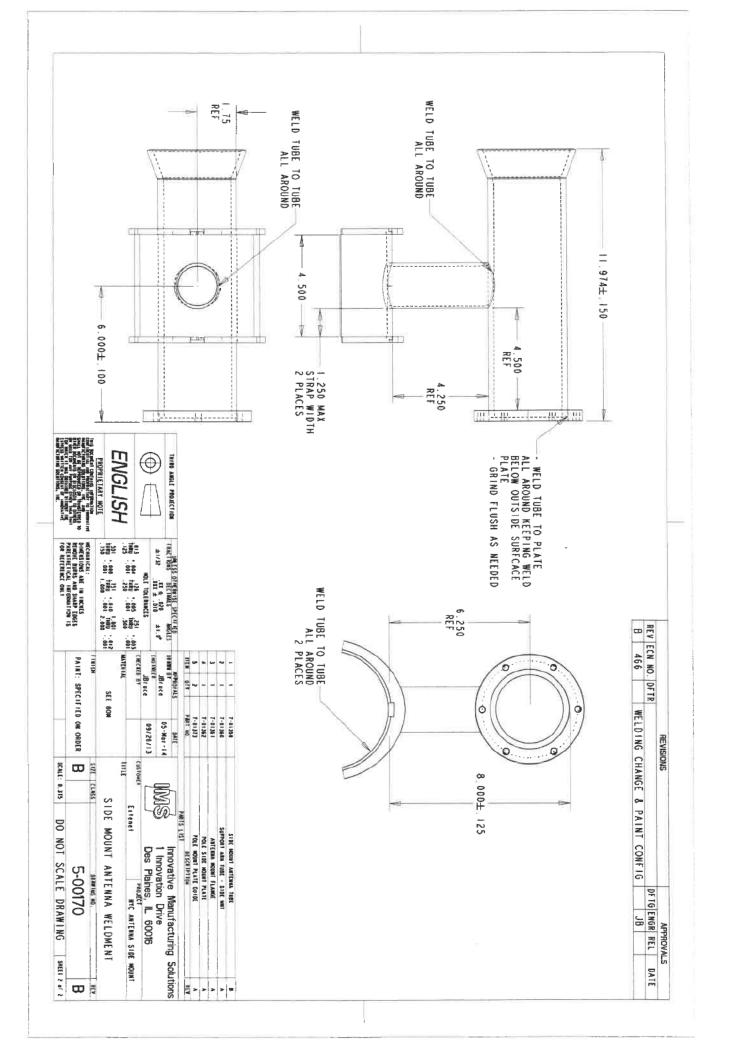








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Network Operations Guidelines

VERSION 2.1 January 16, 2017



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9)	Mobilitie Network Operations Center (NOC)	



Executive Summary

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This document provides guidelines for Mobilitie's Network Operations. The guidelines include: break-fix process and reporting process flow; approved site access guidance; lockout-tag out procedures; repair and maintenance vendors; nationwide 811 call before you dig information; wood utility pole preventive maintenance; emergency response protocol; disaster recovery; and strategic plans for the Mobilitie Network Operations Center (NOC).

Adhering to these guidelines enables Mobilitie Network Operations to perform trend analysis, root-cause analysis, process improvement initiatives, controlled change requests implementations, thorough audits of vendors' performance, clear and concise communications, and efficient emergency response and disaster recovery efforts.

As Mobilitie Standards and Requirements are subject to ongoing review, the information contained may be amended by Mobilitie at any time. If a defect, ambiguity, omission or error is discovered in any of these guidelines, notify



2. Right-of-Way Site Access Engagement





a. ROW Access Process Flow



b. Emergency Site Access Guidance

1

In case of an emergency at any Mobilitie site, contact the NOC at 1-877-244-7889. Below is the contact placard that will be visible at all Mobilitie sites and must be adhered to:

Mobilitie, LLC

In case of emergency or equipment access contact:

E-mail: MNOC@mobilitie.com

Phone: (877) 244-7889

Please reference site ID

SITE ID: _____



3. Lockout-Tag Out Procedures

Mobilitie has established Lockout/Tag-Out Procedures based on jurisdictional requirements to safeguard workers from the unexpected energization or startup of equipment, or the release of hazardous energy during service or maintenance activities. The below signage displays the steps that are to be followed before set-up, maintenance, service, or repair:

Mobili	itie, LLC
In case of emergency or equ	uipment access please contact:
E-mail: MNOC@mobilitie.	.com Phone: (877) 244-7889
SITE ID:	FCC ID:
Step 1: Identify power source(s) for RF	Step 5: Verify isolation of power has occurred by
The second secon	
Step 1: Identify power source(s) for RF transmission equipment. Step 2: Notify MNOC referencing the Site ID# and communicate site status with all workers on site.	Step 5: Verify isolation of power has occurred by observing power on indicators at equipment, aftempting to activate equipment, and checking Rimorntoning PPE. Step 6: Perform site maintenance or servicing.
transmission equipment. Step 2: Notify MNOC referencing the Site ID# and communicate site status with all workers	observing power on indicators at equipment, attempting to activate equipment, and checking Ri- monitoring PPE.

4. 811 Call Before You Dig

811 is a nationwide non-profit organization dedicated to preventing damage to underground utilities and promoting public safety. 811 functions as a communications system for parties who are planning mechanized digging activities such as excavation, tunneling, grading, boring and demolition. 811 policies and procedures can vary from state to state, as it is governed by each respective state's laws. Each state's 811 entity is headed by a Board of Directors, comprised of representatives of all utility groups within said state. Here is a detailed 811 guide: (811 Guidelines).



Wireless Interference Response Plan

The purpose of this Section is to define the working relationship, communications channels and support processes between Mobilitie, its customers and a jurisdiction with respect to an event of potential wireless interference. The Network Operations ("NOC") wireless interference response plan is designed for 24 hours, 7 days per week, 365 days a year and is based on jurisdictional requirements. The plan objective is to ensure efficient and accurate responses to any potential event. The process for any possible event of wireless interference is as follows:



6. Preventive Maintenance

The purpose of the wood utility pole preventive maintenance plan is to provide information and guidance to operating personnel in performing inspection and maintenance of standing wood utility poles. Included in the plan are methods and procedures for determining the minimum permissible ground line circumferences of wood utility poles. Here is the Wood Utility Pole Preventive Maintenance Plan: (<u>Preventive Maintenance Plan</u>).

7. Emergency Response Plan

The Network Operations Emergency Response Plan is 24 hours, 7 days per week, and is based on jurisdictional requirements. The objective of the plan is to ensure the ROW is safe by:





8. Disaster Recovery Plan

Mobilitie's Disaster Recovery Plan will utilize the National Incident Management System (NIMS). In the event of a tornado, flood, or similar disaster (whether natural or manmade), Incident Command and Control will be implemented to organize both near-term and long-term field-level operations. Here is the full Disaster Recovery Plan: (<u>Disaster Recovery Plan</u>).

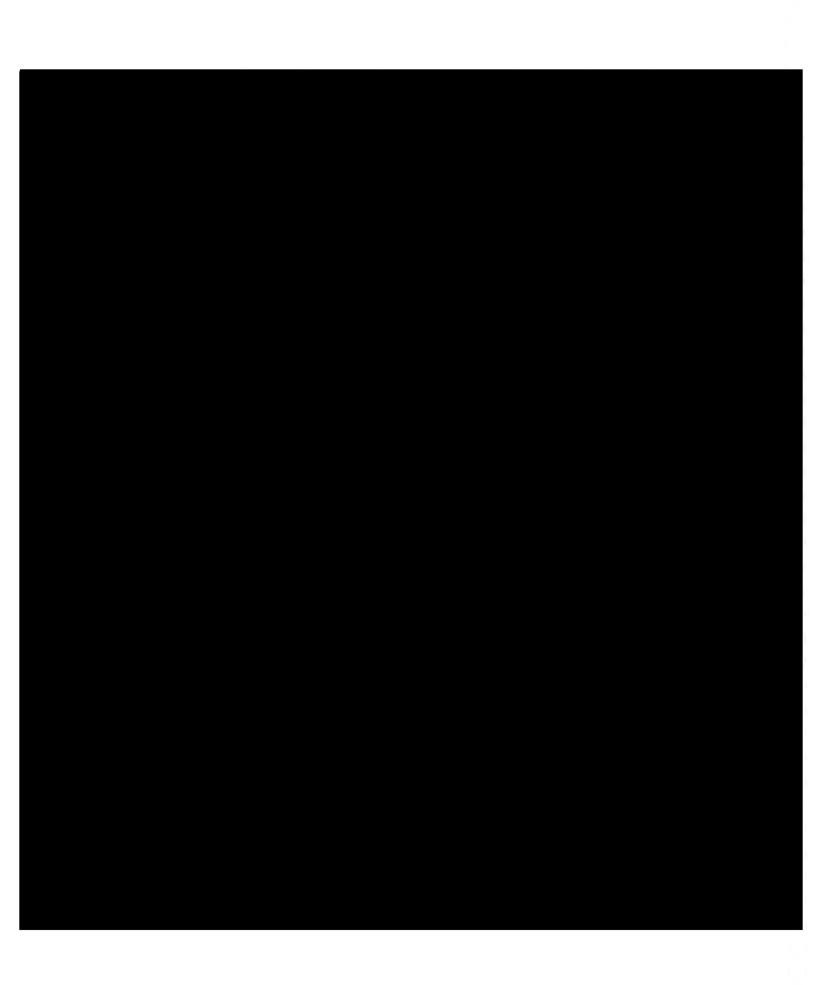
9. Mobilitie Network Operations Center (NOC) Plan



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Pinnacle Telecom Group

Professional and Technical Services

Antenna Site RF Compliance Assessment and Report

prepared for

Mobilitie

Sprint Site "NY90XS385C" Third Avenue & 100th Street Brooklyn, NY

July 14, 2017

14 Ridgedale Avenue, Suite 260 • Cedar Knolls, NJ 07927 • 973-451-1630

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Site Description and Antenna Data	4
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Certification	6

Appendix A. Site Photographs

Appendix B. Measurement Equipment and Procedure

Appendix C. Background on the FCC MPE Limits

Appendix D. Summary of Expert Qualifications

Introduction and Summary

On June 21, 2017, at the request of Mobilitie, Pinnacle Telecom Group (PTG) performed independent expert on-site street-level measurements of potential radiofrequency (RF) exposure at a Sprint antenna site identified as "NY90XS385C", mounted on top of a street light pole on the northeast corner of the intersection of Third Avenue and 100th Street in Brooklyn, NY.

The area at street level around the site is open to the general public; therefore, the site is considered "uncontrolled" and the FCC's "general population" limit for maximum permissible exposure (MPE) is applied in assessing compliance. Measurements of RF levels were performed in normally accessible areas along Third Avenue north and south of the site, as well as along 100th Street east of the site. Representatives of Mobilitie and of the New York City Department of Information Technology & Telecommunications were present during the measurements. David Collins of PTG performed the measurements.

The results of a compliance assessment such as this can most clearly be explained by describing the RF levels as simple percentages of the FCC MPE limit. If the reference for that limit is 100 percent, then RF levels higher than 100 percent indicate the MPE limit is exceeded, while RF levels lower than 100 percent indicate compliance with the limit.

The results of the on-site measurements are as follows:

- Measurements performed at street level around the antenna site indicated a maximum RF level of 0.3935 percent of the FCC general population MPE limit. In other words, the maximum RF level measured at street level at the site was more than 254 times below the most protective limit applicable by law.
- Therefore, the site is clearly in compliance with the FCC requirements for control of RF exposure.

The remainder of this report provides a description of the site, the measurements results and an analysis of those results with respect to RF compliance.

Several appendices are included. Appendix A provides photographs of the site. Appendix B provides a description of the measurement equipment and procedures. Appendix C provides background on the FCC limits for RF exposure, along with a list of FCC references on compliance. Lastly, Appendix D provides a summary of the background and qualifications of the individual certifying compliance for the subject antenna site.

Site Description and Antenna Data

The site consists of one omnidirectional antenna mounted at the top of a street light pole. The site is located on the northeast corner of Third Avenue and 100th Street. The antenna is mounted approximately 29 feet above ground level.

MEASUREMENT RESults

The results of the measurements, expressed as a percentage of the FCC general population MPE limit, are overlaid on the map (extracted from the *Google Earth* website) shown on the following page. North is at the top of the image. Third Ave runs roughly north-south, and 100th Street runs east of Third Avenue.



As shown, the maximum measured RF level was 0.3935 percent of the FCC general population MPE limit, found on the west side of Third Avenue, approximately 100 feet north of 100th Street.

Compliance Analysis and Conclusion

The results of the on-site measurements indicate that the RF levels at the sites are far below the FCC limit. At street level around the site, the highest RF level measured was 0.3935 percent of the FCC general population MPE limit. Therefore, the site is clearly in compliance with the FCC requirements for the control of RF exposure.

CERTIFICATION

The undersigned certifies as follows:

- 1. I have read and fully understand the FCC regulations concerning RF safety and the control of human exposure to RF fields (47 CFR 1.1301 et seq).
- To the best of my knowledge, the statements and information disclosed in this report are true, complete and accurate.
- The analysis of site RF compliance provided herein is consistent with the applicable FCC regulations, additional guidelines issued by the FCC, and industry practice.
- The results of the analysis demonstrate compliance with the FCC regulations and limit concerning the control of potential human exposure to the RF emissions from antennas.

Daniel Penesso

Director- RF Engineering

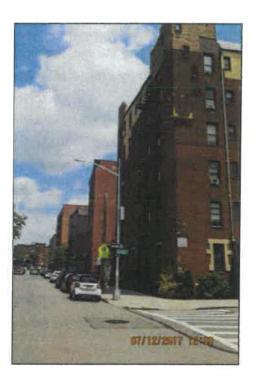
Pinnacle Telecom Group, LLC

7/14/17

Date

Appendix A. Site Photographs

Photographs of the site, taken the day the measurements were performed, are shown below.





Appendix B. Measurement Equipment and Procedure

RF measurements were performed using a Narda model EA5091 RF probe and Narda model NBM-520 RF meter. Both the probe and meter are capable of broadband RF measurements, covering a range of 300 kHz to 50 GHz. The measuring equipment is designed to automatically register all RF levels within the frequency range and report them as percentages of the FCC's overall occupational MPE limit. Converting the measurement result to reference the general population MPE limit is simply a matter of multiplying the readout by five.

The equipment was calibrated by the manufacturer within the past 12 months.

The measurements were taken in a manner consistent with training provided by the equipment manufacturer, including the "RF Field Measurements for Antenna Sites" videotape, developed by Richard Tell Associates and now included as part of the Narda equipment package.

In order to ensure "safe-side" results, maximum RF spot-levels were measured and reported in all areas. In accordance with guidance shared with us by the FCC staff, sufficient time was spent performing the measurements to gather a "real-world" depiction of RF levels.

Appendix C. Background on the FCC MPE Limits

As directed by the Telecommunications Act of 1996, the FCC has established limits for maximum continuous human exposure to RF fields.

The FCC maximum permissible exposure (MPE) limits represent the consensus of federal agencies and independent experts responsible for RF safety matters. Those agencies include the National Council on Radiation Protection and Measurements (NCRP), the Occupational Safety and Health Administration (OSHA), the National Institute for Occupational Safety and Health (NIOSH), the American National Standards Institute (ANSI), the Environmental Protection Agency (EPA), and the Food and Drug Administration (FDA). In formulating its guidelines, the FCC also considered input from the public and technical community – notably the Institute of Electrical and Electronics Engineers (IEEE).

The FCC's RF exposure guidelines are incorporated in Section 1.301 *et seq* of its Rules and Regulations (47 CFR 1.1301-1.1310). Those guidelines specify MPE limits for both occupational and general population exposure.

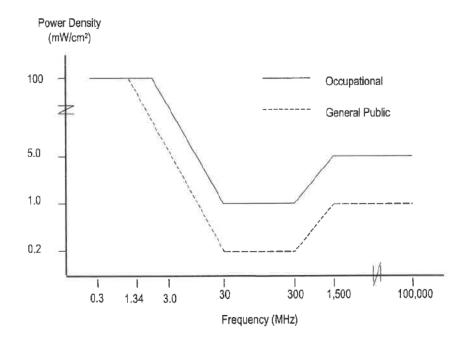
The specified continuous exposure MPE limits are based on known variation of human body susceptibility in different frequency ranges, and a Specific Absorption Rate (SAR) of 4 watts per kilogram, which is universally considered to accurately represent human capacity to dissipate incident RF energy (in the form of heat). The occupational MPE guidelines incorporate a safety factor of 10 or greater with respect to RF levels known to represent a health hazard, and an additional safety factor of five is applied to the MPE limits for general population exposure. Thus, the general population MPE limit has a built-in safety factor of more than 50. Continuous exposure at levels equal to or below the applicable MPE limits is considered to result in no adverse health effects on humans.

The reason for *two* tiers of MPE limits is based on an understanding and assumption that members of the general public are unlikely to have had appropriate RF safety training and may not be aware of the exposures they receive; occupational exposure in controlled environments, on the other hand, is assumed to involve individuals who have had such training, are aware of the exposures, and know how to maintain a safe personal work environment.

The FCC's RF exposure limits are expressed in two equivalent forms, using alternative units of field strength (expressed in volts per meter, or V/m), and power density (expressed in milliwatts per square centimeter, or mW/cm²). The table on the next page lists the FCC limits for both occupational and general population exposures, using the mW/cm² reference, for the different radio frequency ranges.

Frequency Range (F) (MHz)	Occupational Exposure (mW/cm ²)	General Public Exposure (mW/cm²)
0.3 - 1.34	100	100
1.34 - 3.0	100	180 / F ²
3.0 - 30	900 / F ²	180 / F ²
30 - 300	1.0	0.2
300 - 1,500	F / 300	F / 1500
1,500 - 100,000	5.0	1.0

The diagram below provides a graphical illustration of both the FCC's occupational and general population MPE limits.



Because the FCC's RF exposure limits are frequency-shaped, the exact MPE limits applicable to the instant situation depend on the frequency range used by the systems of interest.

The most appropriate method of determining RF compliance is to calculate the RF power density attributable to a particular system and compare that to the

MPE limit applicable to the operating frequency in question. The result is usually expressed as a percentage of the MPE limit.

For potential exposure from multiple systems, the respective percentages of the MPE limits are added, and the total percentage compared to 100 (percent of the limit). If the result is less than 100, the total exposure is in compliance; if it is more than 100, exposure mitigation measures are necessary to achieve compliance.

References on FCC Compliance

47 CFR, FCC Rules and Regulations, Part 1 (Practice and Procedure), Section 1.1310 (Radiofrequency radiation exposure limits).

FCC Second Memorandum Opinion and Order and Notice of Proposed Rulemaking (FCC 97-303), In the Matter of Procedures for Reviewing Requests for Relief From State and Local Regulations Pursuant to Section 332(c)(7)(B)(v) of the Communications Act of 1934 (WT Docket 97-192), Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation (ET Docket 93-62), and Petition for Rulemaking of the Cellular Telecommunications Industry Association Concerning Amendment of the Commission's Rules to Preempt State and Local Regulation of Commercial Mobile Radio Service Transmitting Facilities, released August 25, 1997.

FCC First Memorandum Opinion and Order, ET Docket 93-62, *In the Matter of Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation*, released December 24, 1996.

FCC Report and Order, ET Docket 93-62, In the Matter of Guidelines for Evaluating the Environmental Effects of Radiofrequency Radiation, released August 1, 1996.

FCC Office of Engineering and Technology (OET) Bulletin 65, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", Edition 97-01, August 1997.

FCC Office of Engineering and Technology (OET) Bulletin 56, "Questions and Answers About Biological Effects and Potential Hazards of RF Radiation", edition 4, August 1999.

"RF Field Measurements for Antenna Sites", (video), Richard Tell Associates Inc., 1997.

"EME Awareness for Antenna Site Safety", (video), Motorola (produced in association with Richard Tell Associates Inc.), 1997,

Appendix D. Summary of Expert Qualifications

Daniel Penesso, Director - RF Engineering, Pinnacle Telecom Group, LLC

Synopsis:	 19 years of experience in all aspects of wireless RF engineering, including network design and implementation, interference analysis, FCC and FAA regulatory matters, and antenna site compliance with FCC RF exposure regulations Have performed RF engineering and FCC compliance work for all the major wireless carriers – AT&T, Verizon Wireless, Sprint, T-Mobile, and MetroPCS, as well as Crown Castle Have served as an expert witness on RF engineering and/or FCC RF compliance more than 100 times before municipal boards in New Jersey and New York
Education: Current Responsibilities	 Bachelor of Science in Electrical Engineering, DeVry Institute of Technology, Chicago, IL, 1987 Manages PTG staff work involving FCC RF compliance for wireless antenna sites, including the provision of math- and measurements-based site compliance reports, related expert testimony in municipal hearings, and compliance-related support in client meetings with prospective site landlords and in town meetings Provides math-based FCC compliance assessments and reports for PTG's wireless clients, including AT&T, Verizon Wireless, T-Mobile, Sprint, MetroPCS, and Crown Castle Responsible for providing client consulting and in-house training on FCC and OSHA RF safety compliance
Prior Experience:	 Have served as senior RF engineer for four of the five national wireless carriers – AT&T, T-Mobile, Sprint, and MetroPCS – in the New York and New Jersey markets Served as an RF engineer for Metricom, Triton PCS, Allter Communications, and Western Wireless Have worked as an RF engineer for several engineering services companies, including Sublime Wireless, Amirit Technologies, Celcite, and Wireless Facilities Incorporated

Managerial Experience

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Senior Management Team

Gary Jabara: Chairman/ Founder: Prior to founding Mobilitie, Gary was a partner at Deloitte& Touche responsible for Wireless Real estate and Infrastructure. He oversaw the negotiation of over 410 billion of telecommunication infrastructure assets on behalf of the Big Six Wireless Carriers. Gary has 23 years' experience in the mobile communication industry starting with the Los Angles Cellular Telephone Company where he led the firm's real estate division. and was responsible for all aspects of site acquisition, budgeting, engineering, and development.

Christos Karmis: President& CEO: Christos serves as President of Mobilitie and oversees all aspects of the company's business. He is responsible for leading the company's growth across its tower, small cell, DAS, fiber, and Wi-Fi solutions. Christos has led the Mobilitie team for the development of thousands of cell towers, DAS, and small cell nodes across the US and international markets. In addition, he has led the company's public venue strategy which has resulted in the deployment of some of the largest inbuilding DAS and Wi-Fi networks in the country, and installations at stadiums and arenas across all major professional sporting leagues. Before joining Mobilitie, Christos specialized in real estate advisory services and the wireless communications industry with Deloitte Consulting. While at Deloitte, he provided operational and network optimization strategies to the world's largest wireless carriers.

Dana Tardelli: Chief Operating Officer: Dana oversees Mobilitie's wireless infrastructure solutions across the United States for the wireless service providers. Dana has more than 20 years of experience in the mobile industry and oversees Mobilitie's DAS, Small Cell, Towers and Wi-Fi solutions. Prior to Mobilitie, Dana worked for 10 years at AT&T as part of the AT&T Mobility team. His experience includes serving in a key role in AT&T's partnership with Apple on the iPhone, as well as being central to the work with the connected device and connected car segments of AT&T. Dana also has extensive experience leading AT&T's mobile pricing strategy, including tiered data, shared plans, hard bundles and differentiated services.

Lisa Torres: Senior VP-Network Deployment: Lisa oversees the regional deployment teams. Lisa has over 20 years of experience in telecommunications, on both the carrier and asset sides. Most of her career has been focused on the acquisition and construction of networks. Prior to Mobilitie, Lisa held leadership roles at Ericsson, Clearwire and Sprint.

Jason Caliento: Executive VP-Network Strategy: Jason's leads Network Engineering, Real Estate, Government Relations, Construction and Operations for Mobilitie. Jason has 18 years of experience in the telecommunications industry focused on network design and deployment, including some of the nation's largest roll-outs of new technologies and infrastructure. Prior to joining Mobilitie, Jason served as the Chief Operating Officer of SAC Wireless, a Nokia Company, and led the National PMO for Clearwire.

Christopher Glass: Senior VP-General Counsel: Christopher oversees all Mobilitie's Distributed Antenna System networks. He joins Mobilitie with over twelve years of site development and project management experience in the wireless industry. Most recently, Christopher was the Network Deployment Project Manager for Clearwire responsible for the deployment of their 4G WiMax network in Los Angeles. Prior to Clearwire, Christopher spent nearly ten years at Sprint Nextel in various network deployment roles, most recently serving as the Strategic Sites Manager for the West Region. In his role as Strategic Sites Manager, Christopher oversaw the deployment of numerous in-building and outdoor DAS systems for Sprint Nextel, including stadiums, convention centers, casinos and shopping malls.

New York City Team

Mobilitie North East Deployment Organization Includes Decades of experience working with NYC DOITT and DOT, Major carriers and fortune 500 companies. We have constructed over 800 sites in NYC utilizing the DOITT pole top process.

The NYC team is comprised of the following highly qualified members:

Joe Sforza - Northeast Vice President

Joe oversees the North-East deployment team. Joe has over 25 years of experience in telecommunications. Joe has been involved in Construction of fiber optic and wireless networks across the US and Internationally. Prior to Mobilitie, Joe held management roles at DoITT, Reliance Globalcom, TW Telecom and Bell Atlantic.

Lee Fenster - New York Regional Director

Lee oversees the NYC market deployment team which covers the five New York City, Rockland, Westchester and Orange County NY. Lee has over 20 years' experience in the Wireless Industry including Design, Engineering, Backhaul, Permitting and Zoning, Construction, Commissioning, System Performance, Regulatory Compliance, Operations, Maintenance, and Application Development. Prior to Mobilitie, Lee has held Individual contributor and Leadership roles at Ameritech Cellular, AT&T, Ericsson, and Northrop Grumman.

Brian Fernandez - Senior Project Manager

Brian is a Senior Project Manager covering the NYC, Orange, Westchester and Rockland County markets. Brian has over 15 years of experience in telecommunications within the NYC area. Prior to Mobilitie Brian worked at Northrop Grumman supporting DoiTT projects. He has also held technical positions at AT&T and XO Communications.

Ming Eng - Senior Project Manager

Ming is currently a Senior Project Manager covering the NYC market. Ming has over 20 years of experience in telecommunications, on both the carrier and equipment vendor sides. Prior to Mobilitie, Ming has worked for TW Telecom, Smartsan, Dell/Force10 networks, and Carrier Access. Ming holds an Electrical Engineering degree from Rensselaer Polytechnic Institute.

Joshua Ababon - Senior Construction Project Manager

Joshua Ababon is the primary point of contact with NYC DOT, manages the day to day relationship with Mobilitie's General Contractors within the New York City Market, and provides technical support the regional team. Prior to Mobilitie, Joshua held a regional Project Manager and Lead Field Engineer position at Samsung in the American Midwest Region, Lead Field Technician at Clearwire in NYC, and has over 12 years of telecommunications experience.

Greg Russo - New York Network Real Estate Manager:

Oversees the New York City team's permitting efforts in New York City, Rockland, Westchester and Orange county's. Greg brings 23 years of experience in local and regional site acquisition, contract administration, zoning, permitting and property management. Prior to joining Mobilitie, Greg had roles with Nextel, AT&T, T-Mobile and Northrop Grumman.



Doing Business Data Form

To be completed by the City Agency prior to distribution						
Agency:	Transaction ID:					
Check One:	Transaction Type	(check one):				
Proposal	Concession	Contract	Economic Development Agreement			
/ Award	Franchise	☐ Grant	Pension Investment Contract			

Any entity receiving, applying for or proposing on an award or agreement must complete a Doing Business Data Form (see Q&A sheet for more information). Please either type responses directly into this fillable form or print answers by hand in black ink, and be sure to fill out the certification box on the last page. Submission of a complete and accurate form is required for a proposal to be considered responsive or for any entity to receive an award or enter into an agreement.

This Data Form requires information to be provided on principal officers, owners and senior managers. The name, employer and title of each person identified on the Data Form will be included in a public database of people who do business with the City of New York; no other information reported on this form will be disclosed to the public. This Data Form is not related to the City's VENDEX requirements.

Please return the completed Data Form to the City Agency that supplied it. Please contact the Doing Business Accountability Project at DoingBusiness@cityhall.nyc.gov or 212-788-8104 with any questions regarding this Data Form. Thank you for your cooperation.

Section 1. Entity information							
Entity Na	Entity Name: Transmission Network, LLC						
Entity EIN/TIN:							
Entity Filing Status (select one):							
Entity	has neve	er completed a Doin	g Business Dat	a Form. <i>Fill o</i>	ut the entire for	n.	
☐ Chang	ge from p	revious Data Form	dated	. Fill o	out only those se	ections that have changed,	
		he name of the pers				•	
		m previous Data Fo				•	
Entity is a Non-Profit:							
Entity is a	a Non-Pr	ofit:	┌ No				
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Entity Type Address: City:	pe: F	Corporation (any ty Sole Proprietor port Center Drive, Ste. 2 Beach	/pe)	(specify):			

Provide your e-mail address and/or fax number in order to receive notices regarding this form by e-mail or fax.

Doing	Business	Data	Form
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EIN/TIN	

Page 2 of 4

Section 2: Principal Officers

Please fill in the required identification information for each officer listed below. If the entity has no such officer or its equivalent, please check "This position does not exist." If the entity is filing a Change Form and the person listed is replacing someone who was previously disclosed, please check "This person replaced..." and fill in the name of the person being replaced so his/her name can be removed from the *Doing Business Database*, and indicate the date that the change became effective.

Chief Executive Officer (CEO) o	r equivalent officer	This position does it	not exist
The highest ranking officer or manag Chairperson of the Board.	er, such as the Preside	ent, Executive Director, Sole Proprietor or	
First Name: Christos	MI:	Last: Karmis	
Office Title: CEO/President			
Employer (if not employed by entity):	Mobilitie Management, i	TC	
Birth Date (mm/dd/yy):	Home F	Phone #:	
Home Address:			
▼ This person replaced former CEO	: Gary Jabara	on date: 9/1/2017	
Chief Financial Officer (CFO) or	equivalent officer	This position does n	ot exist
The highest ranking financial officer, s	such as the Treasurer,	Comptroller, Financial Director or VP for Fin	ance.
First Name: Dessi	MI:	Last: Sarabosing	
Office Title: CFO			
Employer (if not employed by entity):	Mobilitie Management, L	ıc	
Birth Date (mm/dd/yy):	Home P	hone #:	
Home Address:			
This person replaced former CFO:	Kenny Lin	on date: 4/17/2017	
Chief Operating Officer (COO) or	r equivalent officer	This position does a	-4
	•	This position does not anning Officer, Director of Operations or VP	
First Name: Dana	MI:	Last: Tardelli	
Office Title: COO			
Employer (if not employed by entity):	Mobilitie Management, Li	.c	
Birth Date (mm/dd/yy):	Home Pl	none #:	
Home Address:			
This person replaced former COO:	N/A	on date: N/A	

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EIN/TIN:	
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Page 3 of 4

Section 3: Principal Owners

Please fill in the required identification information for all individuals who, through stock shares, partnership agreements or other means, **own or control 10% or more of the entity**. If no individual owners exist, please check the appropriate box to indicate why and skip to the next page. If the entity is owned by other companies, those companies do **not** need to be listed. If an owner was identified on the previous page, fill in his/her name and write "See above." If the entity is filing a Change Form, list any individuals who are no longer owners at the bottom of this page. If more space is needed, attach additional pages labeled "Additional Owners."

There are no owners listed because (se	elect one):		
The entity is not-for-profit			ual owner holds 10% or more shares in the entity
Principal Owners (who own or control			
First Name:	Mi:	Last:	
Office Title:			
Employer (if not employed by entity):			
	Home Phone #:		
Home Address:			
First Name:	MI:	Last:	
Office Title:			
Employer (if not employed by entity):			
Birth Date (mm/dd/yy):			
Home Address:			
First Name:	MI:	Last:	
Office Title:			
Employer (if not employed by entity):			
Birth Date (mm/dd/yy):	Home P	hone #:	
Home Address:			
Remove the following previously-reporte	ed Principal Own	nere:	
			Removal Date:
			Removal Date:
Name:			Removal Date:

Doing	Business	Data	Form
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EIN/TIN:	

Page 4 of 4

Section 4: Senior Managers

Please fill in the required identification information for all senior managers who oversee any of the entity's relevant transactions with the City (e.g., contract managers if this form is for a contract award/proposal, grant managers if for a grant, etc.). Senior managers include anyone who, either by title or duties, has substantial discretion and high-level oversight regarding the solicitation, letting or administration of any transaction with the City. At least one senior manager must be listed, or the Data Form will be considered incomplete. If a senior manager has been identified on a previous page, fill in his/her name and write "See above." If the entity is filing a Change Form, list individuals who are no longer senior managers at the bottom of this section. If more space is needed, attach additional pages labeled "Additional Senior Managers."

Senior Managers:					
First Name: Joseph	_ Мі:	ast: Sforza			
Office Title: Vice President, Network Deployment					
Employer (if not employed by entity): Mobilitie Man	agement, LLC				
Birth Date (mm/dd/yy):	Home Pho	e #:			
Home Address:					
First Name: Christos Karmis (see above)	_ MI:	.ast:			
Office Title:					
Employer (if not employed by entity):					
Birth Date (mm/dd/yy):					
Home Address:					
First Name: Dana Tardelli (see above)	MI:	ast:			
Office Title: Employer (if not employed by entity):					
Birth Date (mm/dd/yy):					
Home Address:					
Remove the following previously-reported Sen					
Name:		Removal D	ate:		
Name:					
	ertification				
certify that the information submitted on these four pages and additional pages is accurate and complete. I understand that willful or fraudulent submission of a materially false statement may result in the entity being found non-responsible and therefore denied future City awards.					
Name: Christos Karmis					
Signature:	Date	7/31/18			
Entity Name: Transmission Network NY, LLC					
Title: CEO	Work	none #:			

Return the completed Data Form to the agency that supplied it.

REQUEST FOR PROPOSALS

FOR FRANCHISES FOR THE INSTALLATION AND USE OF TELECOMMUNICATIONS EQUIPMENT AND FACILITIES, INCLUDING BASE STATIONS AND ACCESS POINT FACILITIES, ON CITY-OWNED STREET LIGHT POLES AND TRAFFIC LIGHT POLES, AND CERTAIN UTILITY POLES AND OTHER FACILITIES LOCATED ON CITY STREETS, IN CONNECTION WITH THE PROVISION OF MOBILE TELECOMMUNICATIONS SERVICES

EXHIBIT C ACKNOWLEDGMENT OF RELEASE DATE AND ADDENDUM

APPLICANT'S NAME: <u>Transmission Network NY, LLC</u>

RFP RELEASE DATE: <u>June 12, 2018</u>

NUMBER OF ADDENDA RECEIVED: <u>4</u>

ISSUE DATE(S) OF ADDENDA: <u>#4 - July 25, 2018: #3 - July 11, 2018:</u>

#2 - June 29, 2018; #1 - June 27, 2018

REQUEST FOR PROPOSALS FOR THE INSTALLATION AND USE OF TELECOMMUNICATIONS EQUIPMENT AND FACILITIES. INCLUDING BASE STATIONS AND ACCESS POINT FACILITIES, ON CITY-OWNED STREET LIGHT POLES AND TRAFFIC LIGHT POLES, AND CERTAIN UTILITY POLES AND OTHER FACILITIES LOCATED ON CITY STREETS, IN CONNECTION WITH THE PROVISION OF MOBILE TELECOMMUNICATIONS SERVICES

EXHIBIT C ACKNOWLEDGMENT OF RELEASE DATE AND ADDENDUM

APPLICANT'S NAME:	Mobilitie, LLC
RFP RELEASE DATE:	June 12,
NUMBER OF ADDENDA RECEIVED:	3
ISSUE DATE(S) OF ADDENDA:	#3 - July 11, 2018; #2 - June 29, 2018;
	#1 - June 27, 2018



Public Service Commission Audrey Zibelman Chair

> Patricia L. Acampora Gregg C. Sayre Diane X. Burman Commissioners

Paul Agresta Acting General Counsel Kathleen H. Burgess Secretary

Three Empire State Plaza, Albany, NY 12223-1350 www.dps.nv.gov

August 16, 2016

Michael P. Donahue, Counsel Marashlian & Donahue, PLLC 1420 Spring Hill Road, Suite 401 McLean, Virginia 22102

Re: Matter No. 16-01281

Dear Mr. Donahue:

The application, by Transmission Network NY, LLC on June 22, 2016 for a Certificate of Public Convenience and Necessity to operate in New York State as a facilities-based provider and reseller of telephone service, with authority to provide local exchange service, is hereby approved. This approval is based upon the accuracy of the information provided in the company's application and may be revoked if the application is found to contain false or misleading information, for failure to file or maintain current tariffs, or for violation of Commission rules and regulations.

The company's tariff, PSC No. 1, is also approved. This letter will serve as notice to the public that the filing was allowed to go into effect on the date of this letter, as opposed to the date indicated on the tariff leaves themselves.

The company is <u>not</u> authorized to use its own operators to handle 0- (emergency or non-emergency) calls. Such calls must be routed to another telephone company or operator services provider authorized to handle such calls, until such time as an amended Certificate of Public Convenience and Necessity is obtained pursuant to Part 649.6 of the Commission's rules.

The company must obtain any required consents of municipal authorities before commencing construction of telephone lines. It must also comply with applicable federal laws, New York State Public Service Law and related statutes, and the Commission's rules and regulations.

To maintain an active telecommunications company status, the company is required to annually submit a Telecommunications Company Critical Information (TCCI) form. The TCCI

form is available for electronic filing at the following link on the Department's website: http://www3.dps.ny.gov/T/Telco.nsf/TCCIForm?OpenForm.

The following reporting requirements also apply.

- Service Outage Reports Major service outages should be reported to Department Staff by telephone when they occur. See <u>Enclosure 1</u> for specific instructions.
- Operating Revenues These reports are due March 31 each year. The company will be notified in writing each year of the required content and format of these reports.
- Service Quality Reports Local exchange service quality reports are due on the 10th of each month, commencing when the company actually has local exchange lines in service. See <u>Enclosure 2</u> for further information and instructions.

Note: If local exchange service is provided solely via a resale or UNE-P platform, 16 NYCRR 603.4 (f) allows a service provider to request an exemption from any or all service quality reporting requirements. A waiver may also be requested if the service provider does not have any customers in New York State. If you believe that your company qualifies for a service quality reporting exemption, please submit a request for such to the Director of the Office of Telecommunications. See Enclosure 3 for a sample service quality waiver request.

We also ask that you forward the following information to Joseph Yakel of our staff at joseph.yakel@dps.ny.gov within 30 days of receipt of this letter.

Emergency Contingency Plan – A plan describing the company's operational procedures in the event of major service outages, storms, disasters, or other unusual conditions. Any updates or changes to the plan should be promptly forwarded as well.

If you have any questions, please contact Mary Broderick at (518) 486-2832 or mary.broderick@dps.ny.gov.

By direction and delegation of the Commission,

Karen A. Geduldig

Director

Office of Telecommunications

Enclosures 1, 2 and 3

CC:

R. Kudan

G. Hildenbrandt

J. Yakel

Central Operations

ENCLOSURE 1

INSTRUCTIONS FOR REPORTING MAJOR SERVICE OUTAGES

Facilities-based, local exchange carriers are responsible for constructing and maintaining their networks to be minimally susceptible to major service interruptions. They are responsible for mitigating the impacts of major service interruptions by, for example, restoring service promptly, and making public and cellular telephones available to the public when service cannot be promptly restored. They are also responsible for filing their emergency plans with the Commission's Office of Telecommunications and for promptly reporting major service interruptions to the Office of Telecommunications.

The New York State Public Service Commission has recently recognized the increasing reliance by the public on intermodal forms of communication. The critical importance of outage reporting to the state's overall effort to coordinate responses requires that all telecommunications providers participate. Outage reporting procedures are available upon request.

Initial reporting of major service outages should always be made via direct telephone contact and not via voice or electronic mail. The report should be made no more than one hour after the event is first recognized. Regular status reports of an ongoing major service outage should be provided to Department staff consistent with the procedures on the web link. The person making the initial report, as well as the person whose name appears on an outage report, should be fully prepared to provide the most complete and accurate information on an outage as possible. Each service provider should designate in advance who these individual(s) will be.

ENCLOSURE 2

SERVICE QUALITY REPORTING REQUIREMENTS (See Also October 6, 2000 Memorandum and Resolution

Adopted by the Commission in Case 97-C-0139)

Local exchange service providers are subject to the administrative, operational, and service quality performance standards set forth in the Commission's Rules and Regulations.¹ They include the following service quality reporting requirements:

- Local exchange service providers that serve less than or equal to 500,000 access lines shall normally report monthly Customer Trouble Report Rate (CTRR) performance results, and shall also be subject to Service Inquiry Report requirements with respect to CTRR.
- Service Providers having more than 500,000 access lines shall normally report monthly performance on all service quality metrics specified in the service quality standards, and shall be subject to Service Inquiry Report requirements for all metrics.
- The Director of the Office of Telecommunications may require additional service quality reporting upon analysis of a provider's reported service quality results and/or receipt of excessive PSC complaints against a provider.
- A service provider may request an exemption from any or all of the reporting requirements, if it provides service through the resale of another service provider's tariffed services; or through purchase of another service provider's Unbundled Network Elements (UNEs) over which it has no direct control. Waivers may also be requested if the service provider does not have any customers in New York. The Director of the Office of Telecommunications will grant or deny such exemption requests on a case-by-case basis.

Annual PSC Commendations will be awarded to local exchange service providers judged to have provided excellent service during each calendar year. The qualifying criteria for a commendation are: 1) a 3.3 or better Customer Trouble Report Rate in at least 95% of monthly measurements during the year; and (2) a PSC complaint rate of not more than 0.075 per thousand access lines for the year. A newly certified service provider must provide all required service quality information for an entire calendar year to be considered for commendation.

Local exchange service providers serving less than 500,000 access lines should use the attached form for reporting CTRR results. This form requests the number of customer trouble reports received in the last calendar month and the number of access lines served at the end of the last calendar month, reported separately for each of the provider's local end office switches. Each local end office switch should be identified by a single NXX code. The completed form should be e-mailed or faxed to Gary Hildenbrandt (gary.hildenbrandt@dps.ny.gov or fax: (518) 474-5616) within 10 days after the end of each calendar month.

¹ 16 NYCRR, Chapter VI, Telephone and Telegraph Corporations, Subchapter A. Service – Part 602 (Consumer Relations and Operations Management) and Part 603 (Service Standards).

Customer Trouble Report Rate (CTRR) Performance Monthly Report Form

For All Local Exchange Companies That Serve Less Than or Equal to 500,000 Access Lines

Company Name:

Company Code (3 Character Code):

Preparer's Name:

Date of Report:

Calendar Month:

Preparer's Telephone & Fax Numbers:

CTRR (RPHL)	(e=d/(c/100)					
# of Access Lines # of Trouble Reports (end of cal. Month) (during cal. month)	(b)					
# of Access Lines (end of cal. Month)	(c)					
NPA-NXX	(q)					
Exchange Name	(a)					

Notes: 1. Service reporting month format is YYMM (e.g., 0011 for November 2000)

9 6 8 9 5

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2. Call Gary Hildenbrandt at 518-486-2459 to obtain a company code before filing first report.

3. Add pages as necessary for reporting additional exchanges.

4. A switching antity may serve more than one assigned NPA-NXX. For the purpose of reporting monthly CTRR data, only one designated NPA-NXX per switching entity should be used consistently each month.

5. CTRR reports should be e-mailed or faxed to Gary Hildenbrandt (gary.hildenbrandt@dps.ny gov or fax: (518) 474-5616) within 10 days after the end of each calendar month.

ENCLOSURE 3

New York State Department of Public Service

Waiver Request for Customer Trouble Report Rate (CTRR) Reporting

Offi New 3 Er	Karen A. Geduldig, Director Office of Telecommunications New York Department of Public Service 3 Empire State Plaza Albany, New York 12223			
	requests an exemption from reporting Customer ate (CTRR) Performance Reports for the following that apply):			
	Request for waiver pursuant to 16 NYCRR 603.4 (f). The company's services are provided through the resale of another service provider's tariffed service and/or through purchase of another service provider's Unbundled Network Elements (UNEs).			
	No Customers in New York State - The company does not have any customers in New York State. We affirm that we will begin reporting CTRR if [Company Name] begins serving customers in New York State.			
[Cor [Cor	nt Company Representative Name] mpany Representative Signature] mpany Representative Title] ntact Information]			
[Dat	te]			

Business References

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Additional reference available upon request



