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CITY OF SOMERVILLE

Commonwealth of Massachusetts 93 Highland Avenue Somerville, MA 02143 (617) 625-6600

BUSINESS LICENSE APPLICATION - Small Wireless Facility

File #: 21-012722

License #: BL21-000119

Address: 51 BEACON ST

Licensee: Matthew Pricco Network Building + Consulting

DBA Name: Extenet Systems, Inc.

Business Ownership Type: Corporation

Legal Name of Entity: Extenet Systems, LLC

Owners/Officers: James A. Hyde, Anthony Lehv, Daniel L. Timm,

License Information:

Do you believe this to be a 6409(a) application?: No

Describe the reason for the work, and the intended beneficiaries: Small Cell Wireless Facility **Provide the detailed description of the work that should appear on the License:** A small cell wireless facility, along with all required equipment and fiber for its operation, to an existing utility pole in the right-of-way located on 51 Beacon Street, with an electricity connection (Pole Number: 24/6A). Location approximately as shown on attached. construction plans.

of installations on existing poles: 1

of installations on new poles: 0

Provide the legal name of the entity that will own the License: Extenet Systems, Inc.

Approval Conditions:

Approved By:

John Power, Approved with Conditions

Approved with condition that no additional overhead wires will be strung across Beacon St to feed this node.

Isabela Maia, Approved Hans Jensen, Approved

Malik Drayton, Approved with Conditions

APPROVAL CONDITION: MD20220713: Contractor shall take all necessary precautions to avoid

damaging any tree or tree part with equipment.

APPROVAL CONDITION: MD20220713: All nearby street tree(s) shall be protected prior to and during all construction activities using TREE BOX or TREE WRAPS. . TREE BOX shall be constructed from 2 in.

x 4 in. lumber creating a box around the border of the tree pit with 2 in. x 4 in. lumber standing straight up at the corners and wrapped with orange snow fence. Detail attached. . TREE WRAPS (TREE TRUNK WRAPPING PROTECTION LUMBER) shall consist of 2 in. x 4 in. and 8 ft. height lumber wired together in close spacing with zip ties or 16 gauge galvanized steel wire to form a protective enclosure around tree trunks. Use burlap to separate the wood from the bark if necessary to prevent wood from scraping or bruising bark. Do not use staples or puncture the trunk in any way. APPROVAL CONDITION: MD20220713: Any tree roots less than two (2) inches in diameter that cannot be avoided during construction shall be carefully and cleanly cut with a clean pair of pruning shears or loppers. Roots are to be cut back flush with the edge of the trench. If any tree roots greater than two (2) inches in diameter are encountered, stop work immediately and contact the City Urban Forester. Any and all pruning of roots greater than 2 inches in diameter must be completed under the supervision of the City Urban Forester.

Eric Weisman, Approved Kimberly M. Wells, Approved



LATITUDE: 42.37590839° LONGITUDE: -71.10336108° TOTALLY COMMITTED

NB+C ENGINEERING SERVICES, LLC.

NG-COLUMERS BANT TO

NE-MA-BSTN3N01-TMO NE-MA-BSTN3N01-03393 / NE3216BA_21LAB

PROPOSED SMALL CELL NODE

51 BEACON STREET, SOMERVILLE, MA 02143 CITY OF SOMERVILLE, MIDDLESEX COUNTY

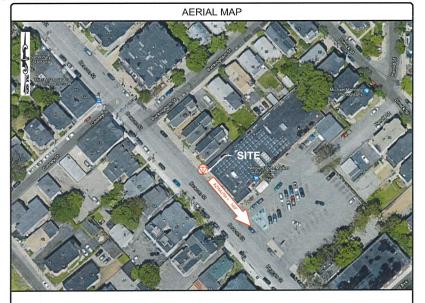




NE-MA-BSTN3N01-03393 TMO ID: NE3216BA_21LAB 51 BEACON STREET SOMERVILLE, MA 02143 MIDDLESEX COUNTY

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	REV	DATE	DESCRIPTION	BY

KRUPAKARAN KOLANDAIVELU, P.E.
MA PROFESSIONAL ENGINEER LIC. #50019

TITLE SHEET

01 OF 05

PROJECT INFORMATION

PROJECT NAME:
POLE TAG:
JURISDICTION:

HUB LOCATION:

NE-MA-BSTN3N01-TMO 24/6A

24/6A LATITUDE: 42.37590839* LONGITUDE: -71.10336108* CITY OF SOMERVILLE MIDDLESEX COUNTY

EXTENET PROJECT MANAGER: ADAM DORL 3030 WARRENVILLE RD, SUITE 340 LISLE, IL 60532 NOC: (866) 892-5327

NOC: (866) 892-5327 HUB: 4BS0364A 94 BEACON STREET SOMERVILLE, MA 02143

ELECTRIC COMPANY: EVERSOURCE

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

- 2015 INTERNATIONAL BUILDING CODE
 (MASSACHUSETTS AMENDED 9TH EDITION)
 2017 NATIONAL SUSCEPTION CODE
- 2017 NATIONAL ELECTRICAL CODE
 NFPA 1-2015 EDITION
 2015 IFC REFERENCE 527 CMR
- AMERICAN CONCRETE INSTITUTE
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION
 MANUAL OF STEEL CONSTRUCTION 13TH EDITION
- ANSI/TIA-222-G
 TIA 607
- INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81
 IEEE 02 NATIONAL ELECTRIC SAFETY CODE LATEST EDITION
 TELECORDIA GR-1275
- ANSI/T 311

DRAWING INDEX

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- 02 NOTES
- 03 ELEVATION
- 04 ANTENNA & EQUIPMENT DETAILS
- 05 ELECTRICAL & GROUNDING DETAILS

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- THE CONTINUENCE OF BROSE SHALL BEAR THE RESPONSEUR! OF WITHOUT (MINING) THE CONTINUENCE OF WORK, IN THE RESPONSEUR! OF WITHOUT SHOULD BE RESPONDED THE CONTINUENCE OF WORK, IN THE REAL OF BROSE THE CONTINUENCE SHALL PRICE THE WORK COSTLY OR CUTORISM WORK, UNITED WHE MEATING CHEMICAL CONTINUENCE SHALL PRICE THE WORK COSTLY OR CUTORISM WORK, UNITED WHE MEATING CHEMICAL SHALL PRICE THE WORK COSTLY OR CUTORISM WORK, UNITED WHE MEATING CHEMICAL SHALL PRICE THE WORK COSTLY OR CUTORISM WORK, UNITED WHEN CHEMICAL CHEMICAL SHALL PRICE THE WORK COSTLY OR CUTORISM WORK, UNITED WHEN CHEMICAL CHEMICAL SHALL PRICE THE WORK CHEMICAL SHALL PRICE
- THE SCORE OF MORE SHALL INCLUEE FIRMESHING ALL MITTERMS, EQUIPMENT, LABOR AND ALL DITEST MITTERMS AND LABOR DESIDEN INCLUSIVANT TO COMMELTER THE WORK/PROJECT AS DESCREED HEIGH, EXCEPT FOR FREST OPTIC CARLE AND CITHEST MATERIALS IDENTIFED BY.
- THE COMPAYING SALL YEST THE JOB SITE PROR TO THE SUBJECTION OF BIDS OR PERFORMING WIRK TO FAULUARIZE HANGEY WITH THE FRED COMMINIONS AND TO YERRY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL DEFAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY TIEM HOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWNING/CONTRACT DOCUMENTS.
- THE COMPACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE STE UPDATED WITH THE MISSIONS AND ADDROUMS ON CLAREFORDERS ANALABLE FOR THE USE BY ALL PERSONNEL INVOLVE WITH THE PROJECT. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND INTERNALS ACCORDING TO THE MANUFACTURE'S/PENDOR'S SPECIFICATION UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEIDENCE.
- THE COMPINACTION SMALL BE RESPONSIBLE FOR OBTAMENT, AND KEEPING A CORY ON STIT, ALL PERMITS AND MERCHANGE WHICH MAY HE RECLAMED FOR THE ARCHITECT/CHAMBERY, THE STATE, COUNTY OR LOCAL CONTRACTION OF THE ARCHITECT/CHAMBERY, THE STATE, COUNTY OR LOCAL CONTRACTION OF THE STATE COUNTY OR LOCAL COUNTY OR L THE CONTRACTOR SHALL SUPERVISE AND OBERT THE PROJECT DESCRIBED HERBY, THE CONTRACTOR SHALL BE SULLY RESPONSIBLE FOR ALL CONSTRUCTIONS USENEY, METHODS, TECHNOLIS, SEQUENCES AND PROCEDURES AND FOR COMBUNITION ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- THE COMPARTIE SHAL HAS RECEIVED PROPERTY TO PROTECT DESTING MERCHANTICS SHALL REPORT AND CONTROL THE CONTROL OF SHALL REPORT AND CONTROL THE CONTROL OF SHALL REPORT AND CONTROL THE CONTROL THE PROPERTY TO GREATLY AND CONTROL THE PROPERTY TO GREATLY GREATLY CONTROL ON ON ABOUT THE PROPERTY TO GREATLY GREATLY CONTROL. THE COMPACTOR SMLL FEET THE EDEBLE MORE AND LEAK AND MAJON FEET DURING CONSTITUTION AND EXPERTE OF ALL DOES, DEBLES AND EDUCATE EXPERTED AS EXEMPTED ON SECURIOR AND REPORTED, PREMISES SMLL IS LETT IN CLEM CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SURGOSS OF ANY MATTER.
- THE COMPACTOR SHALL MATTEY THE CONSTRUCTION MANAGER WHOSE A COMPACT OCCURS ON MAY OF THE COMPACT DOCUMENTS. THE COMPACTOR IS NOT 10 DROPE MATERIAL OR CONSTRUCT MAY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL IS RESOLVED BY THE CONSTRUCTION MANAGER. ACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
- . THE COMPACTION SHALL YEARY ALL DIMENSIONS, DELAYINGS, PROPERTY LHESS, ETC. ON THE PROJECT. OWNERLYCENSHAPCION SHALL YOUNGE (DIMENSIONS) CHARLES SHALL DESIRED ALL DIMENSIONS. DELINEARING TO THE STAFF OF CONSTRUCTION FOR LEGATION OF DESIRED ALL DIMENSIONS.
- SHBAITH, OF BIO INDICATES THAT THE CONTRACTOR IS COCHIZANT OF ALL JOB STE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
- 20. CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN TRACES AND ALL OTHER SCHEDULING AND PROVISIONARY CIRCUMSTRACES SUPROUNDING THE PROJECT. 19. THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE. CONTRACTOR SHALL ROOMS ALL LABOR, MATERIALS, INSURANCE, EQUIRADRI, RESTALATION, CONSTRUCTION TOOLS, TRANSPORTATION, CTD., FOR COMPARTE AND THATCHALLY OPERAINED, SOFTEES DEFENCED AND READ' FOR USE, TRANSPORTATION AND INDICATED ON DRAWMINGS, AS SPECIFED HEREIN AND/OR AS OTHERWISE REQUIRED.
- ILLY PROJECT OF ALL DOES COLUMN FOR YOU AND LOSS WITH A COMPLET AND INSULATION COMMITTEE AND ADDRESS WITHOUT AND ADDRESS WITHOUT ADDRESS AND ADDRESS WITHOUT ADDRESS AND ADDRESS WITHOUT ADDRESS AND ADDRESS WITHOUT ADDRESS AND ADDRESS A
- , ATER COMPLETION OF CONSTRUCTION, RED LINED AS-BUILT PLANS SHALL BE PROVIDED TO CONSTRUCTION MANAGER.

ELECTRICAL NOTES:

- COMPINATION SYML PERFORM ALL VERFALITIONS, GESENATION ITEITS, AND COMMINION WORK PROFE TO GESCHOOL OF MITCHINGTON SYML ISSIE A WRITTEN HOR TO PLAN FROMEST TO THE PROJECT MANAGER LISTHO ALL MALTHACTIONS, FAULTY EXCHANGES AND GESCHANCES.
- verify heights with project manager prior to installate
- LIL MUTDRIAS AND EXPRIPED SHALL RE HER MAD IN FERRET CONTINUIN WHO INSTALLS AND SHALL RE OF THE THE FORCE AND THE SAME WHO THE THE SHALL SHALL
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE COVERNING STATE, COUNTY AND CITY CODES AND OSHA, NEPARED & ASHRAE REQUIRDADATS. ENTRE LOB SHALL BE CAMPANTEED FOR A PERSON OF ONE (1) TEAL AFTER THE DATE OF JOB ACCEPTANCE.
 ALL WORK, MATERAL AND EQUIPMENT FOUND DE FALLTY DURING THAT PERSON SWALL BE CORRECTED AT ONCE, LIFEN WRITTEN KNITECKION, AT THE EXPENSE OF THE CONTRACTOR.
- PROPERLY SEAL ALL PENETRATIONS. PROVIDE UL LISTED FIRE-STOPS WHERE PENETRATIONS ARE MADE THROUGH FIRE-PARTED ASSEMBLES. WATER-TIGHT LISTING SILLICONE SEALANT.
- ALL CONDUCTORS SHALL BE COPPER, IMPARATA CONDUCTOR SIZE SHALL BE $\frac{1}{2}$ 12 ANG., UNLESS OTHERWISE NOTED, CONDUCTORS SHALL BE TYPE THAW, RATED IN ACCORDANCE WITH NEX 110-14(C). DELVER ALL BROCHERS, OPENTING WANLAS, CATALOGS AND SHOP DOMINAS TO THE PROJECT WANGER AT DIS COMPLETON, PROJUCE WANTENANCE WANLAS FOR MEDIAWACH, EQUIPMENT, AFTE WANTENANCE LABOLS TO MEDIAWACH, EQUIPMENT.
- al circuit brenchs, fuses mo electrical equipadit shall have mi interrupting rating not less the magnan interrupting current to which they hav be subjected.
- THE DITTRE ELECTROM, INSTALLATION SWALL BE GROUNDED IN ACCORDANCE WITH THE INSTALMAL ELECTROM.
- decident relatio tubba shall have u.l. Label fittings shall be given bing compression time. But shall be used only for interior ring. RED CHORUT SMAL RE UIL LURE, CALMANZED ZHE CHATE WITH ZHE RIFERDOR MAD ENGLIS KEED WISH REFALLED HE DIVERS CHATERET SAME, HE CHATET WITH FE EMPT, LURED PILES REAL RAWWIS, H MESHRY WALLS OR EPPESED ON BULLING CHIERDER, REDI CHAOLIT HI CHATICT WITH EVAIT SMAL RE 1/2 LAPPED WARPPED WITH HANTS WAP PROCESS NO. 2.
- DUID-THAT TADERS EFFA, CONDUT SWILL BE UIL. ISTED AND SWILL BE USED AT FINAL CHANGETONS.
 TO JECKHARUL LUDHOET & RECEIVER PERMITTER OF ONCE ALL CONDUT IN DICESS OF SOF FET IN LIDETH SWILL CONTAIN A FULL-SIZE GROUND CHOULTOR.

- CONDITI RUNS SMALL BE SURFACE MOUNTED ON CELLAGS OR WALLS INLESS NOTED OTHERWISE. ALL CONDITI SMALL RAIN PARALLE ON PEPERSONALIAR TO WALLS, FLORE, CELLING, OR BEAUS, VICREY DAG ROUTING OF ALL DROSED CONDUIT WITH THE PROJECT MANAGER PRIOR TO INSTITUTIO.
- ALL ELETITION, EQUIPMENT SHALL BE LABELED WITH PERMANENT BAGRACED PLASTIC LABELS, BACKGROUND BY CODE TO FOLLOW A DIFFERENT SCHEME. PAC CONDIT MAY BE PROMED ONLY WHERE SHOME, OR IN UNDERGROUND INSTALLATIONS. PROMED UN-RESERVAT CONDUCTION MERCE REPOSED TO THE AMOSPHERE PROME GROUND CONDUCTION IN ALL POR RUNS; EXCEPT WHERE PERMITTED BY CODE TO OMIT.
- THE COMMINIST WITH UTILITY COMMINIST OR COMMINIST SHALL BE NOW BY THE COMMINIST OF THE STILL THE THE COMMINIST WITH BY THE COMMINIST OF THE CO UPON COMPLITION OF WORK, COMMUTE CONTROLTY, SHOPT CREATE, AND FALL OF POTENTIAL GROUNDING TESTS OF ROLEST TO PROJECT MANUEXT, COMMONDO STETS RESERVED SMALL NOT DECENSED, ANTIFY THE PROJECT MANUEXT FOR PURHOR STANDARD TO THE MESTINANCE MALL S DECENSED, ANTIFY THE PROJECT MANUEXT FOR PURHOR INSTRUCTION OF METHODS FOR RESIDENCE MALL STANDARD THE RESIDENCE MALL.
- GROUNDING NOTES:
- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL WIRES SHALL BE ANG THHIN/THANN COPPER UNLESS NOTED OTHERW ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- BOOLINGING CONNECTIONS TO GROUND ROOS, GROUND RING MIRE, TURKER BASE AND TRAICE POSTS SIALL BE DOTHERING. ("CHAMPLES") MALESSE MUTIL OTHERMESE CLAW A SURFICLES TO SHIPY METAL. MHERE GROUND HIRES ARE CUMPELD THE CALLINATED SURFACES, SPOKY CUMPELD WITH CALLINATED TO PAINT.
- ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEHD GROUNDING LEADS WITH A MINIMUM 12° RADIUS. RECHANDE CONFETENS TO GROUND BUS ARE TO BE TRO-HOLE BIASS MECHANICA. CONFETENS WITH STAMLESS STEE MERCHANE (MICLUMOS STREWS RET) CLEM GROUND BAR TO SHIM METAL ATTER MECHANICA CONFETENT, TREM WITH PROTECTIVE AMTIONOLIME COMPING. GROUND COMMAL CABLE SHIELDS AT BOTH BADS WITH I MANUFACTURER'S GROUNDING KITS.
- RESTR TO GROUNDING PLAY FOR GROUND BAY LOCATIONS, GRUNDING CONNECTIONS SMALL BE DOTHERMIC TYPE ("CAMPILED") TO ARTISM MOURTS AND GROUND BING, REMAINING GOVERTIONS SMALL BE COMPRESSION FITTINGS. CONNECTIONS TO GROUND BAYS SMALL BE MADE WITH TWO—HOLE LIUGS. THE REAL OF THE REAL SHAPE AND SHAPE OF THE REAL PROPERTY OF THE REAL PR Install 42 and gred-insulated straided wire for above grade grounding and 42 thined solutioner for below grade grounding unless otherwise noted.
- 11. IF ROCK IS ENCOUNTERED GROUND ROOS SHALL BE PLACED AT AN OBLIQUE ANGLE NOT TO EXCEED 45".
- CONSTRUCTION OF GROUND RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHULL BE DOCUMENTED WITH PROTOGRAPHS PRIOR TO BUCKFILLING SITE. PROVIDE PHOTOS TO THE CONSTRUCTION MANAGER. EXCITHERMIC WELDS SHALL BE MADE IN ACCORDANCE WITH ERICO PRODUCTS BULLETIN A-AT OR EQUAL
- PRIOR TO INSTALLING LIGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LIBE INC.). PRIOR TO BOLTING GROUND WIRE LIGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUIL. ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE \$2 THNEED SOLID COPPER WIRE. ALL DITEROR GROUND BARS TINNED COPPER. DAVAC AN MOZPONOM ELSTRACH TERMS FIRM OF TOTAL TOTAL TOTAL TERMS TO GROUND OF MAUSO OF TALL OF POPENAM, TEST, TEST SAUL BE WINESSED BY A REPRESENTATIVE, AND RECORDED ON THE "GROUND RESISTANCE TEST" FORM.
- where base copper ground wires are routed from and seal top with succase materal. Install wire in $3/4^\circ$ and sizene, from 1' below group and seal top with succase materal. PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT.
- GROUNDING GUIDELINES: AFT STE WHERE THE EXAMPLET (BTS, CABLE BROCE, PPC, CENERATOR, ETC.) IS LOCATED WITHIN 8 FEET OF METAL TROCKIN, THE GOOUND RAW SWALL BE BONDED TO THE NEWEST FEMCE POST LISING (3) RUNS OF §0 BANE THANDO COPPERT WIFE.

ALL EQUIPMENT THAT IS INSTALLED AND MAY CAUSE MY KIND OF ELECTRICAL CHARGE OR BUILD UP MUST HAVE PROPER AND ACEQUATE GROUNDING IN PLACE TO PREVENT FROM EQUIPMENT DAMACE AND SHOCK HAZARDS.

MET HE CORNED TO A MAN SES AND OR HAVE HEN CORNED FOR HEND FOR HE OF HEND THAN CORNED FOR HEND F

n une grounds should be nettilldi with the proper sze ground kits om all cow cables the kits Are nestilldi on front mad buck of coux runs over approximely 15 feet. Anthring over 300 feet Keeds an additional ground around the 150 foot ward.

IF IT HAS A PLACE FOR A GROUND — GROUND IT.

DIPLEXERS/DUPLEXERS/SPLITTERS/PASSIVE COMPONENTS LLL MET PRES SENILD EL GOUND MIT BERN METAL ON THE PALE THE GOUND ON METAGED AND THIS COLD COMPISSION FORT THE DEM EIGHT, OF PROSENT MEST, THE GOUND ON BE ATMOCHD LEVENWOULT OR AN ACOUNT ALL CHOWN SELD, MAY BE LISED, ET THE MOST PRES THE TALLEST POINT ON A BILLION OF SHOULD ACOUNT A LIGHTHOUGH ON ATMOCHD TO TA WIELL.

LL, BILS SARE SIED THANK A LAN TO AN APPRIORABLE STEIN AND BASE SECURITY E MANTED DAY.

ANTIGOR THE SAME SECURITY AND ADMINISTRY ADMINISTRY AND ADMINISTRY A ANY STRUCTURE OR FRAME SHOULD HAVE 2 GROUND MRE, I.E. MAST PIPES, OUTDOOR ENCLOSURES, SHROUDS BUSS BAR HOME RUN TO EARTH GROUND, ALL EXUPLENT HAS 6 TO BLSS BARS. IF IT HAS A PLACE FOR A GROUND TO BE INSTALLED -

WEATHER SEAL GUIDELINES:

PRE WAD ALL CONNECTIONS WITH BLOCK ELECTROAL TAPE TO COVER ALL METAL SHOWING TO PREVENT DAMAGE TO CONNECTION WHEN WEATHER SEAL IS TO BE REMOVED. 3/4 MICH OR 2 MICH TAPE CAN BE USED FOR THIS PROCESS. MINE COMPETITIONS WITH BUTH, MECHER SELVANT TO PROPER SAME. THIS STEP IS CHUCKL OR THE BUTH, MILL EAK OFER THE.

ENGINEERING FIRM

TOTALLY COMMITTED NB+C ENGINEERING SERVICES, LLC.
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D-RELENGED, NA DEST

- WHEP SCHAMT WITH 2 LATES OF 2 HIGH I'VE, YOUL OWN OUT WITD SIRES IN THAT MEASURE FRILLING HER SHOULD BE PLLLED SHOULD BE FALLED THAN WEAVE SCHAM DE CEST ON HOUS SCHAMT HATD PROPER (CONE LICE) SHAPE, OVER LAPPING THE SHOULD CONER AT LEIST SCHA OF EACH LATES OF IT FAVE PROPER (CONE LICE) SHAPE, OVER LAPPING THE SHOULD CONER AT LEIST SCHA
- IEPAN COMPLETION OF 3 LYCRES OF 2 NEXT IMP. FEMALTE WITH ALEST 3 LYCRES OF 3/1 NEXT IMP. EVEN-IMPAY OF IMP. SHOULD BE MALLED PRICTIEN THAN MOVE BEFORE TO SUBJECTE SEXULATION INTO A MOUTA MON PERSONI MAY SELVANT FROM LEMANG OUT THE SIDES OVER TIME. EVEN LIKTER SHOULD COVER PRIOR LYCRES AT LIGHT SCIE.
- OVERLAP THE TAPE 50% OF THE PREVIOUS LAYER.
- AWAYS TRIESH THE LYST WAP OF TAPE COME UP TO CREATE A SHIRCLARG OF THE TAPE SO WITHE WISHING AMTHRON THAT BURNET OR THE TAPE THE WAY HITO THE SHAUSH, COUT THE BOD OF THE TAPE THE WAY HITO THE SHAUSH, COUT THE BOD OF THE TAPE THE WAY HITO THE SHAUSH, CO NOT STRETCH THE BOD OF THE TAPE. THIS WILL CAUSE THE TAPE TO PALL OFF OWER THAT AND CREATER. A PLACEMEN PATENT.
- CHECK TO MAKE SURE ALL CONNECTORS ARE TORQUED TO PROPER SPECIFICATIONS BEFORE YOU BEGIN
- Note: this step does not need a curtsy wave because the tape does not actually adhere to the connector itself but binds to itself, also known as "self-amaldmaning tape.
- if this "tape" is not pulled than while wrapping you will not create a proper seal, it must be stretched to create bond to itself. WASH CONNECTIONS FUSION TAPE SEALANT WITH TWO LAKES TO FORM A CONE LIDE SHAPE, RISSON TAPE MUST ORSE UP AT LEGIST CASK TO FORM A PROPER SEAL COVER ALL OF THE BARE METAL SHOWNING (AT LEGIS 1-1/2 MCH PAST DND OF CONNECTION.)
- WAVE AT LEAST 2 LAYERS OF 3/4 INCH TAPE, EACH LAYER SHOULD COVER AT LEAST 30% OF PREMOUS TAPE WRAP.
- AURIS TRUSH THE LIST MAPS OF TATE COME UP TO CREETE, A SHIGHAN OF THE TASE SO WITH ENGINEEN AMTHEW THAT HAS DOMEN THE CREET WILL MAT LIVE WITH THE SHAME, CAT THE CREET OF THE TASE AND AMT IT WITH THE FIRSH LOO MAT STEETCH THE CREE OF THE TASE, THIS WILL CLUES THE TASE TO PALL OFF ORTH THE AND CREETE A FAUGHEN AFFOLT.

- PRE WARP ALL CONNECTIONS WITH BLACK ELECTRICAL TAPE TO COPER ALL NETAL SHOWING TO PRESENT TO CONNECTION WHEN WISHTHEN SEAL IS TO BE REJAYIND. 3/4 INCH OR 2 INCH TAPE CAN BE LISE FOR THIS PROCESS.
- USE ONLY OUTDOOR RATED HEAT SHRINK THAT HAS THE SELF-ACHESIVE WIGH HEATED PROPERLY. THIS IS WHAT WILL CREATE THE SEAL TO THE CONNECTOR.
- MAKE SHE HEM SHEW COOKES ALL OF THE COURTERS AND COMERTIONS, REAT THE REAT SHEWS TO SHEW, TORTH TO THE COMERTIONS AND COMEL MAKE SHEW IS SECURITIONS, ALSO CHECK TO MAKE SHEW IS SECURITIONS, ALSO CHECK TO MAKE SHEW HEAT SHEWS AS SOLUTIONS ALSO CHECK TO MAKE SHEW HEAT SHEWS AS SOLUTIONS ALSO CHECK TO MAKE SHEW HEAT SHEWS AS ATTOCH HEATER AND THERE ARE NO BESILES US SAL THROUGH-OUT THE SHEWS TUBBLE.

- I. PROPERLY TORQUE CONNECTOR TO SPECIFICATION.
- inspect the dence to make sure it is not chipped, crucked or any soms of neglect that will take away from make a full seal around the connection. APPLY ONE LAYER OF 3/4 INCH BLACK TAPE AROUND ENTIRE CONNECTOR ENDING AT LEAST 1-1/2 INCHE PAST TOP AND BOTTOM OF CONNECTOR TO PREVENT ANY MOSTURE FROM STICKING TO THE CONNECTOR.
- POLIDY DIRECTIONS THAT COME WITH PRODUCT MOST CLAM SHELL TYPE SEMLANT DEVICES WIND AROUND OR CLAMP AROUND A CONNECTION POINT. USE ONLY CORRECT SIZE PER CABLE AND CONNECTOR TYPE — LE: 1/2 INCH FOR 1/2 INCH HOT 7/8TH FOR 1/2 INCH.
- IE CAREIL, WEN SETTIMO LOCKING PROCE WID PLACE ON CLAW SHEL STILE SEALMIS (THEY ARE PLASTI AND TROI TO BERK AND CHACK IN CONTRIBLE WENTERE COMMINISM WHEN LOCKING CHACKE CLASSI TO CENTI-THE SEAL) IF THE LOCKING MEDIUMISM CRUCKS OR BESAKS, REPLACE IT, DO NOT TAKE THE CLAWF CLASSI OR THY TO RE-DIMENSED IT.
- 7. ONCE THE CLAMP IS ON AND LOCKED AROUND THE CONNECTOR THE PROCESS IS COMPLETE.

- PLACE BOOT ORSE CABLE BETWEET CONNECTION IS AUTHORED TO CABLE. THIS IS ONLY MATED FOR PRY I CONNECTIONS (OPTIE. THE SETS IS SUPPED ON HICH CAMPLETED BETWEEN MANUAR A. CONNECTION, IT IS SUCCONNECTION WILL NOT BE AUG. TO USE THE DOTS STILL EVALUE TO SEAL THE CONNECTION AT IN CONNECTION AND INT HOS STILL A THAN A SEAL TO USE THE CONNECTIONS AND HAT RESIDENT AND CAMPLE CONTINUE OF THE TOWNS AND AND THE BOOT STILL THE OFFICE THE CONNECTIONS AND HAT THE STILL THE OFFICE THE CONNECTIONS AND HAT THE STILL THE OFFICE THE CONNECTION AND THE THE C - BEER
- PLACE THE BOOT OVER THE CABLE, AND THEN MAKE THE CONNECTOR
- TORQUE THE CONNECTION TO PROPER SPECIFICATIONS.
- SUDE BOOT UP TO COVER THE ENTIRE CONNECTOR, FOLLOWING
- THIS PROCESS IS COMPLETE AT THIS TIME.



DESIGN RECORD SITE INFORMATION APPLICANT PROFESSIONAL STAMF extenet NE-MA-BSTN3N01-03393
TMO ID: NE3216BA_21LAB
51 BEACON STREET
SOMERVILLE, MA 02143
MIDDLESEX COUNTY DATE REVISIONS (ENVILLE ROAD, SUITE 340 LISLE, IL 60532 (630) 505-3800 DESCRIPTION BY CWE

SHEET TITLE ENGINEER KRUPAKARAN KOLANDAIVELU, P.E. MA PROFESSIONAL ENGINEER LIC. #50019 NOTES

SHEET NUMBER 02 **P** 05

