

CAMBRIDGE HISTORICAL COMMISSION

831 Massachusetts Avenue, 2nd Fl., Cambridge, Massachusetts 02139 Telephone: 617 349 4683 TTY: 617 349 6112

E-mail: histcomm@cambridgema.gov URL: www.cambridgema.gov/Historic

APPLICATION FOR CERTIFICATE

1. The undersigned hereby applies to the Cambridge Historical Commission for a Certificate of (check one box): Appropriateness, Nonapplicability, or Hardship, in accordance with Chapter 40C of the Massachusetts General Laws and/or Chapter 2.78 of the Municipal Code.

2. Address of property: John F	ennedy ST Pole#11 , Cambridge, Massachusetts
3. Describe the proposed alteration (An additional page can be attack)	s), construction or demolition in the space provided below: led, if necessary).
streetlight location in the Harvard	sing to install a small cell at existing city of Cambridge Square Conservation District. Crown Castle is proposing with a "look-a-like" (28'-2") pole for mouting the proposed
enclosure, (2) comscope ion-ml in With proposed equipment pole has for photo sims as well as equipment proposed underground installation SCH 40 PVC for power to proposed (1) 2" SCH 40 PVC for fiber from handhole, then from the proposed From the one proposed Crown (1) 2" SCH 40 PVC for fiber from the proposed Crown (1) 2" SCH 40	n is for electric is installing from EMH #C125 63' of (1) 2" ed Crown Castle handhole. For fiber installation of 21' of proposed Crown Castle handhole to Crown Castle d handhole 37' of (2) 4" SCH 40 PVC to VZW MH #26/373 castle hand hole 5' of (1) 3" SCH 40 PVC will be
detail on underground work. I certify that the information contained her	cin is true and accurate to the best of my knowledge and belief. has read the statements printed on the reverse.
detail on underground work. I certify that the information contained her The undersigned also attests that he/she Name of Property Owner of Record:	cin is true and accurate to the best of my knowledge and belief. has read the statements printed on the reverse. Crown Castle Fiber LLC
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detail on underground work. I certify that the information contained her The undersigned also attests that he/she Name of Property Owner of Record: _ Mailing Address: 3200 Horizon Dr Telephone/Fax: 678-464-2027	cin is true and accurate to the best of my knowledge and belief. has read the statements printed on the reverse. Crown Castle Fiber LLC ve Suite 150 King of Prussia, PA 19406 E-mail: bryn.thornburgh@crowncastle.com
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Instructions for Completing this Application:

An application must be filed with the Cambridge Historical Commission (CHC) before work begins. Twelve (12) copies of the application should be attached to twelve (12) copies of supplementary material such as sketches, scale drawings, site plans, specifications, or photographs sufficient to enable the CHC to understand the details of the work proposed and to make a determination on the application. Plans no larger than 11" x 17" are preferred. Please submit reduced copies of plans if the originals are of a larger dimension. Do not use spiral bindings, plastic covers, or heavy stock (these will be removed prior to mailing). Double sided copies are encouraged to save paper and postage. See our website or call for a list of meeting dates and deadlines.

The CHC staff welcomes advance inquiries for interpretations or advice. Call 617/349-4683 for appointment. An application is considered incomplete without accompanying plans and drawings. The CHC reserves the right to determine an application incomplete at the time of hearing the application if it determines that the plans, drawings and other information submitted are not sufficient to enable it to determine whether to grant or deny a certificate.

Owners are urged to appear before the CHC in person or to designate an agent to act for them. The CHC will deem the agent to be authorized by the owner to make decisions regarding the extension or waiver of the period within which the CHC is otherwise required to make a determination on the application. All meetings are open to the public.

Administration of Historic Districts, Landmarks, and Protected Properties:

The administration of historic districts and landmarks is guided by the provisions of Ch. 40C of the Mass. General Laws and by Ch. 2.78 of the Code of the City Of Cambridge. Other properties may also be subject to CHC jurisdiction including properties with conditional variances and properties governed by individual preservation restrictions.

Any new construction, alteration of exterior architectural features, or demolition within an historic district or on the premises of a protected property or a designated landmark must be reviewed by the CHC. No building permit for such work on a protected property, designated landmark, or property within a historic district may be issued by the Inspectional Services Department until a certificate has been issued. The CHC must approve the alteration or construction of all structures, including signs, fences, walls, terraces, walks, driveways, light fixtures and the like, which are "open to view from a public street, public way, public park or public body of water," whether or not a building permit is required, and must approve changes in exterior color for properties within a historic district or as otherwise agreed.

Prior to each hearing, the CHC staff will take slides or digital photographs of the subject property in daylight with ordinary camera equipment for the purpose of documenting the publicly visible conditions of buildings and exterior architectural features for the CHC and the public to view at the hearing. More information can be provided on request.

The CHC issues three types of certificates. A <u>Certificate of Appropriateness</u> will be issued when the CHC has determined that the construction or alteration will be appropriate for or compatible with the preservation or protection of the historic district, designated landmark, or other protected property. A <u>Certificate of Nonapplicability</u> may be issued when an application does not involve an exterior feature, or when the exterior feature is not then subject to CHC review. <u>A Certificate of Hardship</u> may be issued when failure to approve an otherwise inappropriate project would involve substantial hardship to the applicant and the CHC determines that the project can be accomplished without substantial detriment to the purposes of the district, preservation restriction, or landmark designation.

The CHC considers each application on its own merits, and does not apply specific architectural guidelines. Landscaping with plant materials is not subject to CHC review unless it is planned in conjunction with alterations or new construction. The CHC must approve projects that are not incongruous with the historic aspects or the architectural characteristics of the protected property, landmark, or historic district.

BACKHAUL PROVIDER:

CROWN CASTLE FIBER

CALL CROWN CASTLE SMALL CELL NOC AT (888) 632-0931 AND THE CROWN CASTLE CM PRIOR TO ACCESSING SITE

ENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL SEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY REPANCIES BEFORE PROCEEDING WITH THE WORK OR BE

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OF THE SHALL VERIFY ALL PLANS, EXISTING
SHALL VERIFY ALL PLANS, EXISTING DO NOT SCALE DRAWINGS VAME: DAN WILLIAMS

CROWN CASTLE CONSTRUCTION MANAGER:

VAME: SOPHIA BUCKLEY CROWN CASTLE PROJECT MANAGER

PROJECT TEAM

DocuSign Envelope ID: 02E0C79A-AF8F-4D81-B6FA-A8E1E54BF670

SITE CASCADE:

PROJECT:

SITE TYPE:

VZW 4G NODE LOCATION

SCU# 464620 HSQ-009

28'-2" STREETLIGHT POLE

DRAWING DESCRIPTION:

PERMIT DRAWING

[4] peabody St (34) Cambridge College AREA MAP Harvard University Mount Auburt St. (2) 1" = 400' Quincy 51

POWER COMPANY EVERSOURCE ZONING DISTRICT: OS - OPEN SPACE

TELEPHONE COMPANY VERIZON NEW ENGLAND

ZONING JURISDICTION

ADA COMPLIANCE: FACILITY IS UNIMANNED AND NOT FOR HUMAN HABITATION. ALL ADA SITE REQUIREMENTS ARE MET OR ARE NOT APPLICABLE.

LONGITUDE (NAD83): -71° 07' 13.74" -71.120485° MIDDLESEX

SITE INFORMATION

LOCATION MAP 1" = 200



APPLICABLE CODE

IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

YOU DIG IT'S FREE AND IT'S THE LAW

THE UTILITIES AS SHOWN ON THIS SET OF DRAWINGS WERE DEVELOPED FROM THE INFORMATION AVAILABLE. THE INFORMATION FOR DISCUSSION OF BETHE COMPLETE INVENTORY OF IS UTILITIES. IN THIS AREA. IT IS THE CONTRACTIOS RESPONSIBILITY TO VERBIT THE LOCATION OF ALL UTILITIES (NAMERES SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE CAUSED BY

7/21/2021

NEW CROWN CASTLE INSTALLED EQUIPMENT

- (1) AMPHENOL 2C4U3MT360X06F02s0 ANTENNA
- (1) APELIO RCEN-SLIM-361812 ENCLOSURE
- (2) COMMSCOPE ION-ML RADIOS

DESCRIPTION
ORIGINAL
UPDATE EQUIPMENT

BY DATE MS 04/19/21 GL 05/06/21

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY LOCAL GOVERNING AUTHORITIES. NOTHING

CALL S11 OR 1-888-DIG-SAFE

TE ADDRESS:
JOHN F KENNEDY ST
CAMBRIDGE, MA 02138
POLE# 11
- SHEET DESCRIPTION:

HSQ-009 SCU# 464620

TITLE SHEET

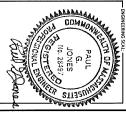
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OR PERMITTING





SHEET DESCRIPTION
TITLE SHEET
GENERAL NOTES
OVERALL SITE PLAN
PROFILE

DRAWING INDEX

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- 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT EDITION OF THE FOLLOWING CODES, STANDARDS, AND SUPPLEMENTS.

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- AGI AMERICAN CONCRETE INSTITUTE

 AISC AMERICAN INSTITUTE OF SIEEL CONSTRUCTION SPECIFICATIONS
 EEE INSTITUTE OF ELECTROAL AND ELECTRONICS ENGINEERS
 NEC- INATIONAL ELECTRICAL CODE
- NESC NATIONAL ELECTRICAL SAFETY CODE

- N NSPC KNTONAL STANDARD PLIMBING CODE

 NETA, NATIONAL FIRE PROTECTION ASSOCIATION

 OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

- ALL COMENSIOSTATE, COLATY MAIL DOAL CODES AND OPDIANAES IN THE COST STRUCKET COLOR TROUBERDAY.

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- THE CREADY MOTES CHATAMEN HEREN HAE PHAT OF THE LANS AND SECIFICATIONS. AND HAE TO BE COMPAID MINTH IN ALL RESPECTS. THE MOST RESTRICTION COTTS. SECURIDA HAE TO THAT REPOSEIDENCE CENTIAN SECTIONS OF THE GENERAL MOTES MAY NOT JAPILY TO EXCEPT SITE. THE CONTRACTOR IS TO COMPLY MITH ALL JAPILAURIES GENERAL MOTES IN ALL RESPECTS.
- 8. ALL GENERAL NOTES AND STANDARD DETALS ARE THE MINIMAN REQUIREMENT TO BE USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.

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- IN THE CONTRACTOR SHALL HES LECOLANT MAMERIS OF SOLLEN MOMERIA WHO ARE INCODEDLY TRANSON AND EXPERIENCES AND HER MICESSANT CRAFTS, AND WHO ARE COMPLETELY TRANSLAWN THE RECEIVED TO AND INFORMATION OF THE MODE OF
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL SAFETY PRECAUTIONS AND REGULATIONS, SUCH AS OSHA COMPLIANCE, DURING THE PROGRESS OF WORK. THE ENGINEER WILL NOT ADVISE NOR PROVIDE DRECTIONAS TO SAFETY PRECAUTIONS AND PROGRAMS.
- 13. SAFETY MEETINGS SHALL TAKE PLACE EYERY MORNING BEFORE THE WORK DAY BEGINS.
 14. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR THE SECURITY OF THE SITE UNTIL COMPLETION OF THE CONSTRUCTION.
- 15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS AND COORDINATE THEIR WORK WITH THE WORK OF ALL OTHER CONTRACTORS TO ENSURE THAT WORK PROGRESSION IS NOT INTERRUPTED.
- . THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMANG WORK ON THIS JOBSTIE DURING THE PERFORMANCE OF THIS CONTRACT TO AVOID DELAYS IN THE SCHEDULE OR OTHER WORK PERFORMED IN THE VICINITY OF THE CONSTRUCTION AREA.
- 7. THE CONTRACTOR SHALL SUBRIT A CONSTRUCTION SCHEDULE TO THE PROPERTY OWNER WELL IN ADVANCE OF THE STARTING DATE OF THE WORK THE OWNER SHALL ALSO BE NOTIFIED OF A CHANGE IN THE CONSTRUCTION SCHEDULE.
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- 20. THE CONTRACTOR IS RESPONSIBLE FOR APPLICATION AND PAYMENT OF CONTRACTOR LOCATION CAN EXCHANGE TO SOURCE THE REQUIRED INSPECTIONS. A MINIMALM OF 46 THURSD OF MOTHER SHOULD BE COMENT ON APPLICATION IN THE CONTRACT SCHEDULE THAT FOR THE GRAVITED DUE TO DELY CAUSED BY INSPECTIONS.
 21. ELOY CONTRACTOR IS RESPONSIBLE FOR APPLICATION AND PAYMENT OF CONTRACTOR LUCRISES, BONDS AND INSURANCES, DOCUMENTATION SHALL BE PROVIDED TO THE CHARGE PRIOR TO VIOLOR.
- A COPY OF THE APPROVED PLANS SALL HE FORT HA, PLACE SEDIESD BY THE COVERNING JOENCY, AND SY LIVING BE MULLIAST OR SRECTION AT ALL TIMES, IT IS THE CONTRIVATORS RESPONSIBLED IT TO DELEVER LACCONTRIVATION SETS RELEVENT FOR A PROPRIED BY THE CONTRIVATION SETS RELEVENT FOR SALE FAMILY BY ALMS THE CONTRIVATION SHALL ASSOCIATED AND SHE TO PLANS AT THE SITE FOR TAPPOSES OF DOCUMENTIAN ALL ASSOCIATS, CHANGES, RESPONSA, ADDIDA, AND CHANGE ROCKES. THE CONTRACTION IS TO PROVIDE THE OWNER WITH A FULL SET OF RECORD DRAWINGS WITH ACTUAL DIMENSIONS, ROUTING AND CIRCUITS UPON COMPLETION OF CONTRACTION.
- E CONTRACTOR IS TO CONTACTE BITH LOCAL POWER AND TELEPHANE UTILITY COMPANIES BETORE CONSTRUCTION BEGINS TO CREET SERVICE, CRITAN AND PAY ALL FEES SECOLATION THE CONCENTUATION, ASSOCIALE USUSULATION OF SERVICE, COOCINATE CONCUIT RUNTEMINATION POINTS AND GRIVAN ANY FIELD MATERIALS THAT MAY E SUPPLED BY THE UTILITY COMPANIES AND INSTALLED BY THE CONTRACTORS.
- 26. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER AND TOLET FACLITIES AS REQUIRED BY THE PROPERTY OWNER OR GOJESHING AGENCY.
 27. THE CONTRACTOR SHALL MONITOR ALL EISTING STRUCTURES DIRING CONSTRUCTION.
 28. THE CONTRACTOR SHALL COORDINATE THE FINAL DIMENSIONS OF MY TYPE OF STRUCTURAL LAYOUT WITH THE FOOTPRINT OF THE NEW EQUIPMENT BEFORE ORDERING ANY MATERIALS. THE CONTRACTIOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY BRACING, SHORING, TIES, FORM WORK AND THE PROTECTION OF ALL WORK DURING CONSTRUCTION TO YOUR DAMAGE, COLLAPSE, DISTORTION, MISALIGNMENT AND ALTERATION OF EXISTING YMRRANTIES.
- 23. ALL MATERMAS AND EQUIPMENT SMALL BE NEW AND IN SAFE CONDITION PRIOR TO INSTALLATION, AND SMALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURESS THROUGHOUT, FOR ENCHICLESS, GROUP, OR EQUIPMENT.
- ALL MATERALS MAST BE STORED ON A LEXEL AND DRY LOCATION AND ON ANAMENTANT WILL NOT DESENTINE FLOW OF OTHER WORK RELATED OR NOT RELATED TO THIS CONTRACT. ANY EXHBERT OR MATERAL STORAGE MAST CHEEF ALL RECOMMENDATIONS OF THE MASTACTURED THE CONTRACTOR SHALL INSPECT THOROUGHLY MALL WATERALS AND EQUIPMENT PRIOR TO PANAL INSTALLATION LOAMAGED EQUIPMENT ON MATERIALS SHALL NOT BE INSTALLED.
- 1. ALL MATERIALS SMALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. 2. DICEPT FOR WARNING SIGNS SUCH AS 'NO TRESPASSING' AND SIGNS THAT STATE OWNERSHIP A PROPERTY. SUSTAINS SIGNS WILL BE MANTANED AND PROTECTED.

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CROWN

- 2 BY SUBMITTING A BID FOR THIS WORK, THE CONTRACTOR ACKNOWLEDGES THAT HE HAS THOROUGHLY REVIEWED AND UNDERSTOOD THE CONSTRUCTION DOCUMENTS VISITED THE SITE, AND IS FAMILIAR WITH THE CONDITIONS ENCOUNTERED AT THE SITE.
- 3. THE CONTRACTOR, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING WHICH THE CONTRACTOR MIGHT NOT HAVE FULLY EXPLORED PRIOR TO BIDDING.
- NO PELO DI DIADRANCE DE CANDITIONS THAT EXIST, OR OF DIFFICULTES THAT MAY BE ENCOUNTERED OR DE ANY OTHER RELEVANT MATTER CONCERNING THE WORK TO BE PERFORMED VILL BE ACCEPTED AS A REASON FOR ANY PALLINE OR OMNSON ON THE PART OF THE CONTRACTOR TO PLUFIL THE REQUIREMENTS OF THE CONTRACT OCCUMENTS.
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- SHOULD ANY ERROR OR NICONSISTENCY APPEAR IN THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR, BEFORE PROCEEDING WITH THE WORK, MUST MAKE MENTION OF THE SAME TO THE DRIGHEET AND OWNER FOR PROPER ADJUSTMENT AND IN NO CASE PROCEED WITH THE WORK IN UNCERTAINTY OR WITH INSUFFICIENT INSTRUCTION.

PURPOSES ONLY FOR PERMITTING

21 Oxford Rd Mansfield, MA 02048 www.piketelecom.org 1-508-337-7600

ENGINEERING SEAL

- THE CONTRACTION AND EACH SUBCONTRACTION SHALL BE RESPONSIBLE FOR PERFICATION OF ALL RESIDERATION, THE SITE BEFORE ORDERING ANY MATERIALS OR DONE ANY HOR W. OR EACH OF A CHARGE ORDERING SHALL BE ALLOHDED. BUT DETERBELESS BETWEEN ACTUAL DIMENSIONS AND DANISIONS BRICHERS ON THE OMER THAN CONTRACTION OF THE OWNER HOR DESCRIPTION HAVE BEFORE THE CONTRACTION OF THE OWNER HOW DESCRIPTION HAVE BEFORE THE CONTRACTION BEFORE THE CONTRACTION FROM THE PLANS WITHOUT THE AFFECT BE ANEXE, THE CONTRACTION SOWN, SHALL NOT WAY FROM THE PLANS WITHOUT THE DAYS BOTH AS THE OWNER FOR THE OWNER FOR CONTRACTION SOWN, SHALL NOT WAY FROM THE PLANS WITHOUT THE DAYS BOTH AS THE OWNER FOR CONTRACTION SOWN, SHALL NOT WAY FROM THE PLANS WITHOUT THE DAYS BOTH AS THE OWNER FOR CONTRACTION SOWN, SHALL NOT WAY FROM THE PLANS WITHOUT THE DAYS BOTH OWNER FOR THE OWNER FOR CONTRACTION SOWN, SHALL NOT WAS THE OWNER FOR THE OWNER FOR CONTRACTION SOWN.
-), TRADE, PRODUCT MANES, MANUFACTURER NAMES, CATALOG MANBENS, AND INDICATIONS OF EXISTING PRODUCT TYPES SHOWN ON THE DRAWNIGS ARE BELEVED TO BE ACCURATE. IF THEY ARE DISCOVERED TO BE INACCURATE, NOTEY OWNERS/ENGINEERS MANEDIATELY AND DO NOT PROCEED WITHOUT INSTRUCTIONS.
- A BRIGHTO TAMENTA CONSTRUCTION, THE CONTRACTOR SHALL HERCET FLA. BELLE MEMBLES MICHAELS WAY COULD IDHING CONSTRUCTION. ANY DAMAGES TO NETH OR DISTING SURFACES, STRUCTURES, HOOPERTY, SHALLBERY, THEES, OR EQUIPMENT, SHALL BE, MEMBLESHEY, REPARED OR REPLACED TO THE SHTSPACTION OF THE PROTERTY OWNER, THE CONTRACTOR SHALL BEAR THE COST OF REPARANS OR REPLACING ANY DAMAGED AREAS.
- I". HE CONTRACTOR SHALT TAKE ALI REFEAUTONARY MEASURES AND REPORTS TO PROTECT THE STRUCTURAL INTEGRITY OF EXISTING STRUCTURES AND PROPERTIES. WHEN HOWER IS PERFORMED IN THE VICINITY OF EXISTING STRUCTURES, THE STRUCTURAL INTEGRITY AND STABLITY SHALL BE MONITORED AT ALL TIMES DURING SEREN PHASE OF THE CONSTRUCTION.
- 12. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION, ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE OWNER OR OWNERS REPRESENTATIVE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER SUPERVISION OF A LICENSED LAND SURVEYOR.
- IS THE PLANS SHOWN SOURE NOWN SUBSIPANCE STRUCTURES, ADDIG GOLOHO STRUCTURES, ADDIG HITTURES BELEND TO EXEST IN THE WORKING AREA. THE EXCIT COCKTIONS MAY THEN PROMOTHED THE THE THE PLANS AND THE THEORY OF SHORT AND THE THEORY SHOWN THE LOCATION OF SHORT AND THE PLANS AND THE THEORY SHOWN THE COMMENT TO SHOW THE SHOWN OF SHORT AND THE PLANS AND THE THE CONTRACTIONS SHEED CHARLES THE CONTRACTIONS SHEED CHARLES THE SHORT AND THE PLANS AND THE SHOWN OF HALF WAS THE PLANS AND TH A REVIOUS THE CONTRACTOR SWALL FOR LAKE A METAL ALL REMOVEDS NORMAL TEXTURE AND ARREST THE REMOVED PROPERTY OF THE LISTS OF A METAL AND ARREST SHAPE OF THE LISTS OF A METAL AND ARREST SHAPE OF THE LISTS OF A METAL AND ARREST SHAPE OF A METAL AND ARREST S
- IN IN THE PORT THAT THE CONTRACTOR DAMAGES ANY EXISTING WHER, SEWER, DAMAGES, EXETTEDLY, CAS, TRAFFE SYSTEM, COMMANICATIONS OR OTHER UTILITY STRUCTURES, DUTINS, PRESS, OR OTHER PACHITIS, THE CONTRACTION SHAW, DAMATHY THE LOCAL LIBERGATION OF THE WHERE THE CONTRACTION SHAW THE PROTECTION AND THE CITITY OWNER MARKENITY AND COMPOSITY OF THE RESPONSITION OF THE RESPONSITION OF THE WHERE SHAW, WHERE AS LECTION, AND OTHER UTILITIES WHERE ENCOUNTEED IN THE WORK SHALL BE REQUIRED THE UTILITY OWNER MARKENITY AND CONTRACTOR WHEN DECENTION OF THE RESPONSITION OF THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WHENE THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WHENE THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WHENE THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WORK THE SHALL BE RECONTRACTOR WHEN DECENTION OF THE WORK THE SHALL BE RECONTRACTOR THE SHALL BE RECONTRACTOR THE SHALL BE RECONTRA
- ALE PALINCARE ELEPTROL. ELEPTONE, SERIE ANTEL OR MY CITES (TILTY ME EXCOUNTEED MID INTEREES WITH THE EXCURION OF THE WORK THE CONTRACTOR TO SHEADERS WITH THE EXCURSION OF THE WORK THE CONTRACTOR TO SHEADERS WITH THE WORK THE CONTRACTOR WAS A CONTRACTOR TO SHEADERS WITH THE WORK THE CONTRACTOR WAS A CONTRACTOR WITH A FEITHER COMMENT OF EXCOUNTED WITH THE WORK OF CONTRACTOR TO EXECUTION OF THE UTILITY COMMENTS RECOMMENDED WITH THE OWNER OR OWNERS REPRESENTATION AND THE UTILITY COMMENTS WAS A CONTRACTOR TO EXECUTION OF THE UTILITY COMMENTS WAS A CONTRACTOR TO EXECUTION OF THE UTILITY COMMENTS WAS A CONTRACTOR OF THE UTILITY OF THE UT

THESE DOCUMENTS ARE CONFIDENTIAL AND ARE THE SOLE PROPERTY OF CROWN CASTLE AND MAY NOT BE REPRODUCED, DISSEMINATED OR

- MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
- 1, THE CONTRACTOR SHALL RESTORE ALL PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD CONDITION AS BEFORE DISTURBED AS DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- ZE PROTECT PRISHED SURFACES NOLUNIGALAMES AND HEAGS OF DEPENSES USED AS PASSAGEMYNS THROLLON WHOLE BUJUNENT AND MITERALS WILL PASS. 26. PROTECT PRISHED SURFACES NOLUNIGALAMES AND HEAGS PRICH TO ALLOWING EQUIPMENT OR MATERIALS TO BE MOTED OFER, ANDIAD, OR WITHIN SURFACES. 24. KEEP PRISHED SURFACES CLEAN, UNFARIED AND SUTRELY PROTECTED UNTIL, OR SITE AS OCCUPIED BY THE OWNER.
- и. ТНЕ ВВП ОР DMAGE TO AN EXISTIA STRUCTURE, ТНЕ CONTRACTOR SMLL NOTPY THE OWNER OR ANMERS REPRESENTATIE MACEVITELY, AND TH AMEE ALL REPLACEMENTS AND REPARS TO THE SATISFACTION OF THE COMERS THE COMERS MAY ELECT TO USE A, THARP-AMPT CONTRACTOR TO PERFORM THE EXPENSES ASSOCIATED MITH THE REPARS AND REPLACEMENTS SMLL BE PAULD IF THE CEMERAL CONTRACTOR ASSLICTED FOR THIS CONTRACT.
- ALL CUTS ON CONCRETE SIDEWALKS SHALL BE MADE FROM THE NEAREST JOINT OR SCORE LINE ON ONE SIDE OF THE EXCAVATION, TO THE NEAREST JOINT ON THE OTHER SIDE OF THE EXCAVATION. , AL COTS O MERCY SOFTWARES SHALL BE MAKE BY MENTY SOLMENDO, ALL EDICES OF THE EXCENATION TO THE APPET LIKE OF THIL SECTIONES. ALL BRIDGE OF THE EXCHANTION SHALL BE REIN'T REMODELES OF THE CONTRACTOR PRISES. TO ANY POINT BEINED REPROPRIED, AND STREET CONDED, SHE STORAGE STREAGE BY THE CONTRACTION OR WITH ANOTHER PAULITY AS DIRECTED BY THE LOCAL JURISDICTION. BRICK SIDEMALY RESTORATION AFTER CONSTR
- ALL CUTS ON ASPHALT SIDEWALKS SHALL BE MADE BY NEATLY SQUARING ALL EDGES TO FORM A RECTANGULAR SHAPE AT A 90 DEGREE ANGLE.
- , ANY PANDEMENTOR LANE MARKINGS THAT ARE DISRUPTED BY THE MORK SHALL BE RESTORED ACCORDANG TO LOCAL JURSDICTION REQUIREMENTS. A ANY TRAFFIC LOOPS OR OTHER SIGNAL SYSTEMS BAREDOED IN THE PUBLIC RIGHTOF-MAY DISRUPTED BY THE WORK SHALL BE RESTORED ACCORDANG TO LOCAL JURSDICTION REQUIREMENTS.
- WILL NOT BE CONSIDERED BY THE OWNER TO JUSTIFY AN EXTENSION IN THE CONTRACT TIME

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CAMBRIDGE, MA 02138 JOHN F KENNEDY ST POLE# 11

GENERAL NOTES

SET DESCRIPTION:

THE CONTRACTOR SHALL COORDINATE ALL SPECIAL CONSIDERATIONS OF CONSTRUCTION SUCH AS NOISY OPERATION, RESPECTATION OF ARY MECHANICAL AMOUNT LECTRICAL, SERVICES, MATERIAL DELIVERES AND STEVANES, STAGMED AREA, CRAME LIFTS, ETC. WITH THE PROPERTY OWNER, CHAMETS REPRESENTATIVE, AMOUNT LOCAL JURISDICTION PROPAY OF THE START OF WORKER.

THE CONTRACTOR SHALL COORDINATE WORK HOURS & STAGING AREAS WITH PROPERTY OWNER, PROPERTY OWNERS REPRESENTATIVE, AND/OR LOCAL JURISDICTION. CONTRACTOR SMUL COORDINATE WITH A PROPERTY OWNER REPRESENTATIVE. THE TEMPORARY REMOVAL OF FENCE, LANDSCHAING & ANY EXPECTED DAMAGE TO ACCESS ROAD OR ADJACENT REPAIR OF PROPERTY PRIOR TO COMMERCING THE WORK.

CONTRACTOR TO NOTIFY PROPERTY OWNER OF THE CONSTRUCTION START DATE WELL IN ADVANCE OF CONSTRUCTION

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RE SMALL NOT BE ANY CREMITION OF MOSE CUTSIDE THE MORAUL HOURS MAIDATED BY THE LOCAL JURISDICTION AND THE REPOSETY CAMES OF CHARGES RESERVANCE, MOSE SHOULD BE RESTROYING, LIVELES OF CHARGES REPRESERVANCE, MOSE SHOULD BE REST TO A MAIN-TROUGHOUR OF MOSE SHOULD BE REST TO A MAIN-TROUGHOUR OF MOSE SHOULD BE REST TO A MAIN-TROUGHOUR OF THE ANY THE MOSE SHOULD BE REST TO A MAIN-TROUGHOUR OF THE ANY THE ANY THE MOSE SHOULD BE REST TO A MAIN-TROUGHOUR OF THE ANY TH

nose and disting bilding structure vibration generated by the construction procedures, equipment, tools and operations are to be kept to a procedures benalman, where use of high money life equipment's unanoposate, and can be faced, compile to hours managed by the local jurgiscition, and the property owner or owners representative. (Maless otherwise agreed upon with the local jurgiscition and property owner or owners representative.

CONTRACTOR IS TO PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2.4 OR 2.400 WITHIN 75FT OF TRAVEL TO ALL PORTIONS OF THE STRUCTION AREA.

THE SITE ANDIGN BULDING SECURITY SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION IN ORDER TO PREHENT UMUTH-ORIZED PERSONS FROM ENTERING THE PREMISES, EXISTING AND NEW EDUPMENT AND MATERIALS REMAIN THE CONTRACTIONS RESPONSBILITY AT ALL TIMES DURING CONSTRUCTION.

. THE TOWNTS NODESS AND EGRESS OF THE STE ANDOR BUILDING SHALL DE MANTANED THROUGHOUT CONSTRUCTION.
THE CONTROLOTOR SHALL THREAL HERSLARES NEESSANT TO MANTAN POLLUTION CONTROL, COMPRO, CONTROL CONTR

DEMOLITION AND EXISTING STRUCTURAL ALTERATION

EGREPAL CONTRACTOR IS SOLE Y RESPONSIBLE FOR SHORMS, ERACING, PROVIDING LATERAL SUPPORT, AND THE WAITH MAND THE INTEGRAL OF THE EXCEPTING FRANCH PROVIDED FOR AN EXCEPTING FRANCH PROVIDED FOR AN EXCEPTING FRANCH PROVIDED FOR EXCEPTING FRANCH PROVIDED FOR EXPONENCE FOR THE MORE SUPPORT NOTED FOR EXPOLUTION, AND THAT EXCEPTING FRANCH PROVIDED FOR EXPOLUTION, AND THAT EXCEPTING FOR EXPOLUTION, AND THAT EXCEPTING FOR EXPOLUTION AND THAT EXCEPTING FOR EXPONENCE TO ANY EXCEPTING FOR EXPONENCE TO MAICH EXCEPTING AT NO ADDITIONAL COST TO THE CHANGE.

do not drill or cut eusting floor josts, bejais, columns or other structural elements inless specifically noichted. Drill slabs where approved, code drill drill regular openings, maje drenness persones tracular openings, maje drenness persones tracular drill regular openings, maje drenness persones personess maje and openings. The specific such personess maje and personess maje persone tracular drill regular openings.

EXCEPT IN SPACE WHERE NO WORK UNDER THIS CONTRACT IS REQUIRED, ENCLOSE EXISTING AND NEW CONDUITS, DUCTS, PIPES, AND SIMILAR ITEMS IN FARRING WHERE SUCK ITEMS PASS THROUGH PAINSHED SPACES WHETHER OR NOT FARRING IS NODICATED. WHER CUTTING OF ENSTING SURFACES OR REMOVAL OF EXISTING FINISHES IS REQUIRED TO PERFORM THE WORK UNDER THIS CONTRACT AND A NEW FINISH IS NOT NOCKTED, FILL RESILETING OPENINGS MOP PATCH THE SURFACE AFTER DOING THE WORK AND FINISH TO MATCH ALLACENT EXISTING SURFACES. ERME, PATCH, FRISH ANDIGE REFINSH AS APPLICABLE TO MATCH ADAGENT EXISTING FINISHES. ANY EXISTING SURFACES DAMAGED OR NEW PROPOSED SURFACES AMAGED DURING PERFORMANCE OF THE WORK UNDER THIS CONTRACT.

EPAIR ALL METAL SURFACES THAT HAVE BEEN CUT OR DAMAGED BY REMOVING ANY EXISTING RUST AND APPLYING COLD GALVANIZATION.

CLEARING AND GRUBBING

CLEARING OF TREES AND VECETATION ON THE STEE SHOULD BE HELD TO A MINIMUM, ONLY TREES NECESSURY FOR THE CONSTRUCTION OF THE FACILITY SHALL BE REMOVED ANY DAMAGES TO PROPERTY OUTSIDE THE CONSTRUCTION UNIT SHALL BE REPARED OR REPLACED AT THE CONTRACTIONS EXPENSE. HE CONTRACTOR SHALL PROTECT ENSTRIG TRESS, VECETATION, LANDSCAPING, MATERIALS AND SITE IMPROVEMENTS NOT SCHEDLED FOR CLEARING OR REMOVAL WHICH JUDHT BE DAMAGED BY CONSTRUCTION ACTIVITIES.

TRIM EXISTING TREES AND VEGETATION AS RECOMMENDED BY THE ARBORIST FOR PROTECTION DURING CONSTRUCTION. EAR AND GRUB STUMPS, VEGETATION, DEBRIS, RUBBISH, DESIGNATED TREES REQUIRED FOR THE SITE IMPROVEMENT.

PROTECT TEMPORARILY ADJACENT PROPERTY, STRUCTURES, BENCHMARKS, AND MONUMENTS

MARK DESIGNATED TREES AND VEGETATION DURING CONSTRUCTION ACTIVITIES.

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PROVIDE TEMPORARY EROSION CONTROL, SILTATION CONTROL AND DUST CONTROL. REMOVE AND LEGALLY DISPOSE OF CLEARED MATERIALS.

ALL SUTABLE BORROW MATERIAL FOR BACK FILL OF THE STHAL BE NICLUDED IN THE BID, EXCESS TOPSOIL AND UNSUTABLE MATERIAL SHALL BE DISPOSED OF OFF-SITE AT A LOCATION APPROVED BY GOVERNING ACENCIES PRIGR TO DISPOSAL

BROKEN PAYAMENT, STONES GREATER THAN THREE (3) NOIRES IN DAMETER, ROOTS AND OTHER DEBRIS SHALL NOT BE USED IN BACKFILL. NO MATERIAL SHALL BE LEFT IN THE FUELD RIGHT-OF-WAY ONCE WORK HAS BEEN COMPLETED. DECAMTED MATERIAL SHALL BE REMOVED FROM THE WORK SITE AND DISPOSED OF IN A MAINER SUCH THAT INTERFERENCE WITH AND DISTRUCTION TO VEHICULAR AND PEDESTRAIN TRAFFIC IS MINIMIZED.

PRIOR TO BACKFILLING, THE CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION IF REQUIRED AND ALLOW ADEQUATE TIME FOR INSPECTION.

BUCHLING SMALL OCCUR ON THE SMAE DAY AS THE EXCAVATION. IF THIS IS NOT POSSIBLE DUE TO THE COURSES, MATURE OF THE WORK, EMERGENCY, OR UNPRESENTABLE CONDITIONS, THE COMPACTOR SMALL IMMEDIATELY MOTIFY THE LOCAL JURISDICTIONS), AND TAKE APPROPRIATE MUSICIEST TO PROTECT PUBLIC SMETY AND PRASTRICTURE CAN THE WORK COMMENCES.

NOER NO CROUNSTANCES SMAL AN OPEN EXCAVATION BE LEFT UNATTENDED OVENHIGHT, UNLESS PROPERLY BARRICADED IN A MANNER MEETING WITH APPROVAL FROM LOCAL LURISDICTIONS). Wenerl Pocket Weers have be excessed gavet. Parenda Brocket same weed he seecled fit standags as show below, unless structed Bederts be theosed by the owners representative, geotechnical report recommendations, or the regularments of the local jarsdiction.

PERCENT PASSING 100 70-100 50-85 30-80 30-80

3 INCH 1-1/2 INCH 3/4 INCH NO. 4 NO. 200

- ADMICHERS - NON-CHARDES CONTAINING - PROFISE DITION OF ACIDS SECRET STATEMENT - AND ACID SECRET - NON-CHARDES CONTAINING - PROCESS REPORTED FOR A STATEMENT - AND ACID SECRET - AND ACID SECRE

THE USE OF CONTROLLED DENSITY FIL. (CDF) MAY BE MANDATED BY THE OWNERS REPRESENTATIVE, GEOTECHNICAL REPORT RECOMMENDATION, OR BY THE LOCAL JURISDICTION, OF FORTROLLED DENSITY FILL IS MANDATED, IT SHALL CONFERS TO THE DEAL PRESENTATIVE OF THE COLD AUTHORISED THE COLD

AASHTO M.202, CLASS F AASHTO M.85

IL COMPRESSIVE STRENGTH AT 20 DAYS: 100 PSI MAX, (700 PS) MAX.)

L COMPRESSIVE STRENGTH AT 20 DAYS: 30-40 PSI (210-550 PS)

L COMPRESSIVE STRENGTH AT 20 DAYS: 100 PSI MAX, (700 PS) MAX.)

THE PROJECT INCLUDES: EXCAVATION, TRENCHING, FILLING, COMPACTING AND GRADING FOR STRUCTURES.

 SUPPLY OF ADDITIONAL MATERIALS FROM OFF SITE AS REQUIRED.
 FILL LAYERS THAT REQUIRE COMPACTION SHALL HAVE A MAXIMUM THICKNESS OF 6 INCHES. ALL MATERIALS FOR SUB-BASE, DRAINAGE FILL, BACK FILL, GRAVEL FOR SUBS, PAVEMENT AND IMPROVEMENTS ROCK EXCAVATION WITHOUT BLASTING.

12. IF A LAYER OF CONCRETE, COBBLESTONE, GRANTE PAVERS, OR OTHER SUPPORTING MATERIAL DISTS, CONTRACTOR SMALL INSTALL CONCRETE TO MATCH THE DISTING DEPTH PRIOR TO INSTALLATION OF TEMPORARY PAVEMENT. . THE COMPACTING UNDER STRUCTURES, BUILDING SLABS, STEPS, PANEMENT AND WALKWAYS SHALL BE 85% MAXIMUM DENSTY, ASTM D-1557, TESTED IN EACH OF THE COMPACTING LAYERS AT EACH COMPACTING SITE, OR AT LEAST IN EACH 108 CLI YARDS OF MATERIAL VOLUME.

14. THE COMPACTING UNDER LAWNS OR UNPAYED AREAS SHALL BE BYS MAXIMUM DENSITY, ASTM DISST, IS, GRANEL, BYALL BE PLACED UP TO THREE (3) HOYES BELOW GRADE OF EXISTING ASPIALT, TO ALLOW ROOM FOR THREE (3) NOVES OF COMPACTED HAIN I SURFACE. WHEN BACKFILL CANNOT EFFECTIVELY BE COMPACTED TO 85% MAXIMUM DENSITY DUE TO MULTIPLE CONDUITS, DUCTS OR PIPES, CONTROLLED DENSITY FILL (CDP) MAY BE

16. CONCRETE SIDEWALKS SHALL BE PLACED ON A BED OF SIX (8) INCHES DF COMPACTED GRAVEL.
17. CLIRG STONES MUST BE PLACED ON A BED OF SIX (8) INCHES OF CRUSHED STONE.
18. THE COMPACTED LAYERS SHALL NOT EXCEED 8 INCHES.

19. AREAS THAT DO NOT MET ASTAND. 1557 REQUIREMENTS MUST BE RECOMPACTED AT THE CONTRACTIONS PORCESSE.
20. ALL TREACH SOCUMITIONS AND ANY REQUIRED SHEETING AND SHOWNON SHALL BE DONE IN ACCORDANCE WITH CISH A REQUIREMENT FOR CONSTRUCTION.
21. HARREY MONTANEE SOLL CONDITIONS EXIST, UNET THE GRUBBED AREAS MITH GEOTEVILE FABRIC (MEAR). SOX OR APPROVED EQUIVALENT) PRIOR TO PLACING FILL OR BASE AN HARREY.

22. THE USE OF EXPLOSIVES IS PROHIBITED ON SITE.

24, MY EXCAVATION OVER THE REQUIRED DEPTH SHALL BE FILED WITH OTHER RECHANICALLY COMPACTED GRANULAR MYTERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATION, CRUSHED STONE MAY BE USED TO SYMBILIZE THE BOTTOM OF THE EXCAVATION, STONE, IF USED, SHALL NOT BE USED AS COMPELIAN CONCRETE THORSESS.

, ALL EXCAVATION ON WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIAL HORIZONTAL UNDSTURBED AND BE FREE FROM LOOSE MATERIAL AND EXCESS GROUND WAITER SHALL BE PROVIDED IF REQUIRED.

25. BOCK PILL SWILL USE APPROVED MATERIALS CONSISTING OF LOAM, SANDY CLAY, SAND, GRAVEL, OR SOFT SWILE AND SWILL BE FREE FROM CLOOS OR STONES OCESS XY.

36. AFTER COMPLITION OF THE FOUNDATION AND OTHER CONSTRUCTION BELOW GRAVEL AND BEFORE BHOFFILLING, ALL ENCANATIONS SWILL BE CLEAN OF UNSUTFABLE.

AMPERIALSCRICK AS VEREZETION NO VOID DEBISES, TRIVER, NO MAY FORESTAN MATERIAL.

THE CONTRACTOR SHALL PROTECT ALL STORM DRAIN AND SEMER APPLIRTEMANCES ADJACENT TO AND WITHIN THE CONSTRUCTION SITE. THE PROTECTION USED SHALL PREPENT THE DISCHARGE OF POLLUTANTS, SEDIMENT, ANDIOR SEMER SYSTEM.

CONSTRUCTION DEBIES SUCHAS DIRT, TRASH, ROCK, SEDIMENT, SAND, AND OTHER POLLUTIANTS SHALL NOT BE ALLOWED TO ACCUMULATE IN THE STORM DRAIN OR SEMEN CONFEYANCE STSTEMS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AWAY FROM BUILDING OR EQUIPMENT ON THE SITE AT ALL TIMES, SIT, AND EPOSDIN CONTROL. SHALL BE MAINTAINED BY THE DOMINSTED AN SIDE OF THE SITE AT ALL TIMES, STORM WATER FLOW SHALL NOT BE IMPESED. ANY CAMAGE TO ADJUGENT PROTECTIONS WILL BE CORRECTED AT THE CONTRACTOR DEPOSE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWITERING AND THE MAINTENANCE OF SURFACE DRIVINGE DURING THE COURSE OF WORK.

LAWY DRAIN, FIELD TILE, OR DRAINAGE STRUCTURE ENCOUNTERED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL OR BETTER CONDITIONS AFTER CONSTRUCTION AND BE NOTED ON THE RECORD DOCUMENTS.

CONTRACTION SHALL PROVIDE ALL EROSION AND SEDMENTATION CONTROL MEASURES AS REQUIRED BY LOCAL CODES AND ORDEWAGES TO PROTECT EMPANAMENTS FROM SOIL LOSS, AND TO PREDIGHT ACCUMALATION OF SOIL AND SILT IN STREAMS AND DRAWAGE PATHS LEDANG THE CONSTRUCTION ARES. THIS MAY INCLUDE SUCH ME-SURES AS SILT PROCE STRAMS FULLES SEMENT IN PREDIGES, AND CHECK PLANS
LEROSION CONTROL MEASURES MAY BE REQUIRED IN ADDITION TO THOSE SHOWN ON DOMANINGS WHERE DETERMINED INCESSARY BY ACTUAL STE CONDITIONS.

1 SEREDAL
DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES

 ACI 204 - GUIDE FOR MEASURING, MOUNG, TRANSPORTING, AND PLACING CONCRETE
 ACI 208 - GUIDE FOR CONSOLIDATION OF CONCRETE
 ACI 218 - BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI 301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS

ACI 544.1R - FIBER REINFORCED CONCRETE (IF SPECIFIED)

ACI \$44.39. MUSURDIENT OF PROPERTIES OF FREE REINFORCED CONCRETE (IF SPECIFIED)

LING DESIGN SPALL BE APPROPED BY THE OWNERS EEPRESENTIME ADOOR REQUIREMENTS OF THE LOCAL LIPRISOCTION PRIOR TO POURING CONCRETE.

LOCACIETE SPALL MEET, THE FRALAMONG CAGUREDAPTS KE METHANAGED, 1-159 WITH A MAXIMUM OF 4-1/2" SLUPE, AND TWIS A MANIMUM 20 DAY COMPRESSIVE
STEMORTH OF 400 DES UNLESS OTHERWISE NOTED. THE USE OF MINERAL ADDITIOES OR SUPPLEMENTS IS PROHIBETED. WAITER MAY BE ADOED TO THE MEET MACCORDINATE
WITH ADDITION OF THE SECOND OF THE USE OF MINERAL ADDITIONS OR SUPPLEMENTS IS PROHIBETED. WAITER MAY BE ADOED TO THE MEET MACCORDINATE.

s. THE FOLLOWING MATERIALS SHALL BE USED: . MAXIMUM AGGREGATE SIZE SHALL BE 1" ASTIM C150, TYPE 11

PLANS PREPARED FOR: CASTLE

21 Oxford Rd Mansfield, MA 02048 www.piketelecom.org 1-508-337-7600

FOR PERMITTING

PURPOSES ONLY

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CAMBRIDGE, MA 02138 JOHN F KENNEDY ST

GENERAL NOTES

- . THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL CONCRETE CAST AGAINST EARTH: 3 IN CONCRETE EXPOSED TO EARTH OR WEATHER:

- #5 AND SMALLER AND WWF: 1 1/4 IN
- CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND SLABS AND WALL: 1/4 IN

- A CHAMPER OF X IN SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, LINO, IN ACCORDANCE WITH ACI ON SECTION 42.4 INSTALLATION OF CONCRETE EXPANSIONMEDICE ANCHORS SHALL BE EPR MANIFACTURERS RECOMMEDIATION FOR BIMEDHEMOT ON ERLANS SHALL BE CUT MYTHOUT PROPER REGINEERING APPROVIAL WISH DIFFLANCH OF LUES NO CONCRETE.
- ADMIXTURE SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACL301.
- DO NOT WELD OR TACKWELD REINFORCING STEEL CONCRETE FOR REPLACEMENT CONCRETE SIDEWALKS OR DRIVEWAYS SHALL BE PLACED TO A THICKNESS NOT LESS THAN 8", AND NOT MORE THAN THE THICKNESS OF THE IDJACENT CONCRETE SIDEWALK OR DRIVEWAY.
- ALL DOMELS, ANCHOR BOLTS, EMBEDMENT STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETALS SHALL BE IN LACE BEFORE START OF CONCRETE PLACEMENT. OCKTE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER, PLACE REINFORCEMENT CONTINUOUSLY THROUGH JINT.
- DO NOT PAUSE CONCRETE IN POIDING WHITEN, DE, OR ON FROZEM GROUND.

 FOR DOLD WINTERS AND HOT WEATHER CONCRETE PAUSISSENT, CONFIGURE FOR DAPPLICABLE ACI CODES AND RECOMMENDATIONS, IN EITHER CASE MATERIALS CONTIANING PACHOLOGY. EACH OFFICE THE PAUSISSENT FROM WEATHER FOR 7 DAYS MINIMAN. , PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANES OF MEMONESS. REINFORCING, DO NOT USE VIBRATIOR TO TRANSPORT CONCRETE THROUGH CHUTES OR FORMMORK.

REINFORCEMENT SHALL BE COLD BENT WHEN BENDING IS REQUIRED.

- . FIBER REINFORCED CONCRETE MIX, IF SPECIFIED, SHALL INCLIDE 1 % LISS, OF FIBER PER CUBIC YARD. . WASTE CEMENT FROM CLEANING OF CONCRETE DELIVERY TRUCKS SHALL NOT BE ALLOWED TO ENTER THE STORM DRAIN OR SEWER !

- . PRIOR TO INITIATING EARTHWORK OPERATIONS, GROUND WATER AND SURFACE WATER CONTROL MEASURES NEED TO BE TAKEN. ALL WORK SHALL COMPLY WITH OSHA AND STATE SAFETY REQUIREMENTS, PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTIONS AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
- . THE CONTRACTOR SHALL PROVIDE ADEQUATE SLOPING, SHORING, AND BRACING FOR ALL EXCAVATION TO PROTECT ADJACENT STRUCTURES AND COMPLY WITH LOCAL CODES, ORDINANCES, OSHA AND ANSI REQUIREMENTS.
- . PRIOR TO CONSTRUCTION OF ANY PERMANENT STRUCTURE, THE SITE SHALL BE STRIPPED OF ALL SUPFACE VEGETATION, TOP SOIL, AND ORGANIC MATERIAL; ALL WET, SOFT, LOOSE, FROZEN, OR OTHERWISE UNDESTRIBLE SOIL SHALL BE REMOVED.
- THE EXPOSED SIG ROADE SHALL BE PROPEDHALED WITH HEIDIM WEIGHT ROLLERS OR OTHER APPROVED EXHIPMENT TO DETERMINE IF ANY POOSETS OF SOFT, COMPRESSIBLE SOIL EXISTS BEIONY THE EPROSED SUB GRADE WHEREHER SUCH MATERIAL IS BROOMITIEDD, THE AREA SHALL BE UNDERGUT TO SUTFABLE SOIL, AS DRECTED BY A CAMPIFED BROWER. THE CONTRACTOR IS TO PREVENT SUPPACE WATER FROM ENTERING EXCAVATIONS, PUDDLE, AND FROM FLOODING ADJACENT PROPERTIES DURING CONSTRUCTION CONTRACTOR IS ALSO RESPONSIBLE FOR PREVENTING SOFTENING OF THE FOUNDATION SOLLS PRIDE TO PUDCING CONCRETE.
- LIL STRUCTIONAL FIL EXTENDING FROM SUTFALE SUB GRADE TO BOTTOM OF FOLNOMINONS OR FLOOR SUASS SHALL CONSIST OF GRANALLIR MATERIAL AND 3% TO 10% BY DRY MEDIONT PASSING THE U.S. STD \$200 SIEVE SIZE, COMPACTED TO 85% OF THE INCORPED PROCTOR MAXIMUM DRY OENSITY AS DETEMINED BY ASTIN CHST IN LAYERS NOT EXCEEDING F.
- THE SOIL PREPARATION, INCLUDING FOOTING EXCANATION, FILL BLOX FILL, AND COMPACTING SHALL BE DONE FOLLOWING THE RECOMMENDATION CONTAINED IN
- PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUTHABLE FOR THE INSTALLATION HER/DO LITLEZE AND SHALL BELLIT IN DIABLE CONCRETE FOR RESISTANCE TO ATTICIPATE AND ADDRESSIVE ACTIONS IN THE VICHITY OF THE FOLDATION IN THE MANUAL CONCRETE SHALL ESCURING A MANUAL CONCRETE.
- WELDING IS PROHIBITED ON REINFORCING STEEL EMBEDMENTS.
- MINIMUM CONDRETE COVER FOR REINFORGEMENT SHALL BE 3 NICHES (78MM) LINLESS OTHERWISE NOTED, APPROVED SPACERS SHALL BE USED TO INSURE A 3" (78MM) INMUM COVER ON REINFORGEMENT.
- CONCRETE COVER FROM THE TOP OF FOUNDATION TO ENDS OF REINFORCEMENT SMALL NOT EXCEED 3 INCHES (RIMM), NOR BE LESS THAN 2 INCHES (RIMM). FOOTING IS DESIGNED TO BEAR ON EXISTING NATURALLY OCCURRING, NON-EXPANSIVE SOLLS, OR BROINEERED FILL CAPABLE OF SAFELY SUSTAINING 2000 PSI.
- S, IF SOL PROPERTIES WERE NOT AVAILABLE, THE FOUNDATION DESIGN HAS BEEN DEVELOPED IN ACCORDANCE WITH CHEMICALLY ACCEPTED PROFESSIONAL BENNEEDING PRANCIPES AND PRACTICES WHICH PRESENT CONTROL PROFESSIONAL BENNEEDING CODE. FOUNDATION DESIGN IS BUSED ON SOIL PRANCIPES FROM THE AUDIC RESPONSED BULLOWS CODE. IN SOIL PRANCIPES FROM THE AUDIC RESPONSED BULLOWS CODE. IN SOIL PRANCIPES FROM
- ALLOWABLE SLIDING RESISTANCE 150 PSF/FT. ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF
- 8, FOLNDATION SWALL BE FORMED WITH PLYWOOD OR METAL PANELS SUFFICIENT FOR STRUCTURAL AND VASUAL REQUIREMENTS, FORMS SWALL BE STRUCTURALLY ADEQUATED TO MITHSTAND UNCLRED CONCRETE FIRE ATTAINED 78% OF ITS ULTIMATE STRENGTH.
- R, FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEAGLE AND EXPERIENCED WITHIN THE PROPOSED FOUNDATION TYPE, CONSTRUCTION SHALL BE IN ACCOMBANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES. T. THE CONTRACTOR SHALL EXPECT SUBMERGED DRILLING CONDITIONS FOR DEEP FOLKIONTION CONSTRUCTION SUCH AS DRILLED PIERS OR DEADMAN ANCHORS AND SHALL MOBILIZE ACCORDINGLY.
- B, FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS, AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON CONDITIONS EXISTING AT THE SITE. . CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS, INFILTRATION OF WATER OR SOIL AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
- I. FREE FALL ONCRETE MY RE ISED PROVIDED FALL IS NETFICAL DOWN WITHOUT HITTON SIDES OF EICANATION, FORM MORK, REINFORKIO BARS, FORM TIES, OR OTHER OBSTRUCTIONS, INDERS ON CROMERTANCES SHALL CONCRETE FEALT HONOUGH WINNETS. 72. FUANDATION DESIGN ASSUMES CONTINUOUS CONCRETE PLACEMENT WITHOUT CONSTRUCTION JOINTS.
- 24. EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED X'XX' (18mm x 19mm) MINIMUM TOP OF FOUNDATION OUTSIDE UMTS OF ANCHOR BOLTS SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH. AREA INSIDE UMTS OF ANCHOR BOLTS SHALL BE LEVEL, WITH SCRATCHED FINISH.
- S, INTIMATE CONTACT BETWEEN CONCRETE AND SOIL WALLS OF PAD IS ESSENTIAL FOR ADEQUATE FOUNDATION PERFORMANCE. VIBRATED DURING CONSTRUCTION.
- 26. THE CONTRACTION MIGHT HAVE TO BUILD THE FOUNDATION WITH SUBMERGED CONDITIONS AND SWALL MOBILIZE ACCORDINGLY.
 27. ALL DISTRING GROUNDING FANGS AND DEPACES EXPOSED BY EXCANATION OR REGRANDING SWALL BE REPLACED AND PROPERLY CONNECTED TO EXISTING SYSTEM PER NEC OF LOCAL JUSTICITION REQUERIBEINGTS.

- ZUPILLED SMAT.

 JULIUEZ, BRACING SHALL BE BRACED TO RETAIN PROPER DIMENSIONS DURING HANDLING AND THROUGHOUT PLACEMENT OF CONCRETE. WHEN TEUPONARY CAGES ARE
 FUTULEZED, BRACING SHALL BE ADEQUATE TO RESIST FORCES OCCURRING FROM THE FLORMAG CONCRETE DURING CASING EXTRACTION.
- LONGETE COVER FROM TOP OF FOUNDATION TO BESS OF VERTICAL REBIFOREDERS SHALL BE TAKED SHOWLED AND HES OF MAN PRE LESS THAN 2 MOHES OF MAN, SEALERS SHALL BE ATTRICED SHOULD BE THE PROPERTY SHALL DESCRIPTION OF VICES IN MAN, SEALERS SHALL BE ATTRICED INTERMEDIATE OF PLACES IN SEALERS SHALL BE ATTRICED INTERMETED ATTRICED HOUT THE ENTIRE LEAGHIN OF VERTICAL RESPONDING CAGES TO INSURE CONCENTRIO PLACEMENT OF PLACES IN SEALERS SHALL BE ATTRICED.
- FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT OF THE FOLLOWING DESIGN PARAMETERS ARE NOT APPLICABLE FOR THE SUBSURFACE CONDITIONS BROOWNESSED.
- FOR FOUNDATION AND ANCHOR TOLEPANCES REFER TO TOWER MANUFACTURER DRAWINGS FOR SPECIFIC JOB NUMBER AND DATE. IN ABSENCE OF MORE SPECIFIC INFORMATION, THE CONTRACTOR MAY USE THE FOLLOWING:

DEPTH OR AS SHOWN ON THE DRAWINGS

- POLEFOLINON/TION:

 COUNDETER MALE DEMONSTRATE CHARGE DE LEFT IN PLOCE EQUIPMENT, PROCEDURES MID PROPORTIONS OF CONCRETE MATERIALS CASHO, IF USED, MAL NOT BE LEFT IN PLOCE EQUIPMENT, PROCEDURES MID PROPORTIONS OF CONCRETE MATERIALS CASHO, IF USED, MAL NOT BE LEFT IN PLOCE EQUIPMENT, PROCEDURES MID PROPORTIONS OF CONCRETE MATERIALS SHALL INSIDE CONCRETE MALE DEMONSTRATE CHARGE CHA
- DRILING FLIID, IF USED, SHALL BE FULLY DISPLACED BY CONCRETE AND SHALL NOT BE DETRIMENTAL TO CONCRETE OR SURROUNDING SOIL CONTAINATED CONCRETE. NTIMATE CONTACT BETWEEN CONCRETE AND SOIL-WALLS OF DRILLED SHAFT IS ESSENTAL FOR ADEQUATE FOUNDATION PERFORMANCE, THE CONCRETE SHOULD BE VPROPRIATELY VIBRATED DURING CONSTRUCTION.

VIBRATE THE CONCRETE TO FULLY EMBED

- EGERRAL HE CONTRACTOR SHALL PROVIDE ALL LABON, MATERIAS, INSURVINCE, EQUIPMENT, TRANSPORTATION, CONSTRUCTION TOOLS, ETC., FOR THE INSTALLATION OF COMPLETE NO PROPERLY OPERATING SYSTEMS.
- INSTILLATION SHALL COMPT, WITH ALL PREPLICABLE LAWS AND DERIVANCES OF ALL AITHORITIES HANDS, BESENDRICH AND INTHIP ALL ASSOCIATED THETHY COMPANY.
 REGULATIONS AND APPLICABLE REQUIREMENTS, INSTILLATION, MULL LASS COMPTY WITH THE LATEST BETTINGS OF ALL CODES AND STANDARDS OF THE STITTES LISTED
 UNDER TEMPS.1, PAPAGRAPH 1, THE MOST STRANGENT CODE WILL APPLY IN THE CASE OF DISCREPANCIES ON DEPTERBACES. IN THE CODE RECURRANDATS.
- A RECORD DRAWNOS: MANTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED, RECORD CHANGES ON A CLEAN SET OF CONTRACT DOCUMENTS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER LIFON COMPLETION OF THE PROJECT. THE CONTRACTOR SHALL SECURE ALL NECESSARY ELECTRICAL PERMITS AND PAY ALL REQUIRED FEES.
- ALL RECOLUES GREATION MANUALS, OTALOGS SIDE PRAMINGS, SPECIFICATIONS, ETC., SHALL BET LIBRED OPERT OT BE CARRIER AT THE COMPETITION OF THE PROJECT.
 BLUMANITERIAM PRAINT, DIAMPARTE BISTALLATION TO BE FIRES OF DESCENS, SHORTS, GROAD, ETC., FOR A PERIOD OF ONE TOAR FLORISM WARRANT ON THE CHESTING THE CHESTING THE CHESTING THE CHESTING OF WARRANT IS, AFTER
 THENT YOU DIN'S THE CORRECTIONS ARE NOT COMPLETE, THE OWNER RESERVES THE CHTCH OF ARRANGING FOR THE RECESSANT REPAIRS AND BLOCK CHARGING THE
 CONTROLOR FOR THE WARK.
- 7. THE CONTRACTIOR SAULL COORDINATE WITH OTHER TRADES, AS NECESSARY.

 ALD ONCH THERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE WASTED AND WRITTEN PERMISSION OF THIS INSTALLATION'S CLAWRER. BIC ONATION FOR CHARGES FOR AN ADDRESS, WITH JEE ALL ON THE OFFICE OF CHARGES OR MODIFICATIONS (MODE UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE ARCHITECT, ENGINEER OR ONMER IN THE FORM OF A CHARGE ORDER.
- 10. DRAWANGS, ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT TO BE SCALED.

 11. DISCREPANCIES, DISCREPANCIES ON THESE PLANS, SPECIFICATIONS, ETC. MUST BE MIMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 12. SURVEY AND CONDITIONS, VISIT THE JOB SITE PRIOR TO SUBMITTING BID, AND MAKE A SURVEY OF EXISTING CONDITIONS WHICH MAY AFFECT THE WORK TO BE PERFORMED NO OTHER ALLOWANCES WILL BE GIVEN FOR THE SITE CONDITION.
- 13. COOPERATION: COOPERATE WITH OTHER COMPACTORS AND SUBCOMPACTORS ON SITE ARRANGE AND EXECUTE WORK IN SUCH A MANNER AS REQUIRED FOR THE SATISFACTORY AND EPICENT CONSTRUCTION OF THE SPACECT BY ALL TRADES CONCERNED.

 14. NSTALLATION SHALL COMMEY SEEDEROLLY WITH ENGINEERING STANDARDS MANUAL ANY DEVATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER PROR TO COMMENCEMENT OF VOCA.
- THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION VANELS PROVIDE AN ITEMIZED CERTIFICATION TO THE PROJECT MANAGER THAT EQUIPMENT AND RELATED HARDWARE HAVE BEEN ORDERED WITHIN
- ENERGY DURING MAD UPON COMPLETION OF WORK, ARANNEE AND PAY ALL ASSOCIATED INSPECTIONS OF ALL ELECTRICAL WORK INSTALLED UNDER THIS CONTRACT IN COORDANGE WITH THE CONDITIONS OF THE CONTRACT.
- NERSECTIONS ACRUMENTA SETA THE LIVING AND REGULATIONS OF THE LOCAL MADION STATE ACREMES HAVING LINISISCITION AT THE PROJECT STIE. INSPECTIONS ACREMY: AMPRONDED BY THE LOCAL ANDION STATE ACREMEDIS MANAID AURISSICITION AT THE PROJECT STIE.
 LICHTIPICATES SUBMIT ALL REQUIRED INSPECTION CONTINCATES TO THE ORDRESS; AND UTILITY.

- SO INMERISAND SUPPORTS PROTECTIONS PASTEMEN AND INFORMACE SMALL BE ZINC COATED ON OF EQUIVALENT CORROSION RESISTANCE BY TREATMENT ON INFORMATION TO THE CONTROL OF THE CONT
- STRUCTURAL MEMBERS: DO NOT CUT, DRILL OR WELD ANY STRUCTURAL MEMBER EXCEPT AS SPECIFICALLY APPROVED BY THE ENGINEER
- I MISCELLANEOUS SUPPORTS: PROVIDE ANY ADDITIONAL STRUCTURAL SUPPORT STEEL BRACKETS, ANGLES, FASTEMERS AND HARDWARE AS REQUIRED TO ADEQUATELY SUPPORT ALL ELECTRICAL MATERIALS AND EQUIPMENT.
- I, ONE-HOLE STRAPS SHALL NOT BE USED FOR CONDUITS LARGER THAN % INCH
- ROLIDERESMIERNYS

 ROLIDERESMIE
- L WREIWYS SHALL BE BPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER AND RATE NEIJA 1 (DR BETTER) INDOORS, OR NEIJA 3R (OR BETTER) OUTDOORS. LENGTION BOXER: JUNCTION BOXES SHALL BE A MINIMUM SIZE OF 4 INCHES SQLINGE BY 1-14 INCHES DEEP.
- CROUNT PREPERATIONS SOC DOREDBLED HUES SO THA AN ANNULAR SPOCE OF NOT LESS THAN I AND HAD ONT MORE THAN I NICH IS LET'ARGUND THE CONDUIT, PRE, EIG. MENU ORBINICS ARE CUT IN LIEU OF CORE-DRLED, PROVIDE SLEENE IN ROUGH OF DRINGS, SUZE SLEENES TO PROVIDE, ANNULAR SPACE OF NOT LESS THAN IN INCHANDING SLEENE TO ANDULAR SANCE OF NOT LESS THAN INCHANDING SLEENE TO ANDULAR SHOULD SLEENE TO ANDULAR SH LEPIES AND OPERANCS PROVIDE AL HOLES, SLEPIES AND OPENINGS REQUIRED FOR THE COMPLETION OF WORK AND RESTORE ALL DAMAGED SUPFACES TO MATCH SURPICIADING
- . IF ANY ROOFTOP WORK IS TO BE PERFORMED, THE CONTRACTOR SHALL USE THE BUILDING OWNERS APPROVED ROOFING CONTRACTOR TO PREVENT VOIDING ANY EXISTING ROOFING WARRANTIES. ANY DAMAGE TO THE EXISTING ROOFING MEMBRANE SHALL BE REPARED IMMEDIATELY TO AVOID MOISTURE INTRUSION INTO THE BUILDING SHELL . PROVIDE APPROPRIATE MEATHERPROOFING MATERIALS FOR PENETRATIONS NEEDING TO BE SEALED FROM POTENTIAL WATER INTRUSION, PROVIDE FREPROOF MATERIALS FOR PENETRATIONS REQUIRING A FIRE MATER SEAL, REFER TO CUTTING AND PATCHING NOTES UNDER SECTION 1-. GENERAL.
- S. GEMERAL: PROVIDE ALL CUTTING, DRILLING, FITTING AND PATCHING NECESSARY FOR ACCOMPLISHING THE WORK, THIS INCLUDES REMOVAL AND REPLACEMENT OF DEFECTIVE WORK AND WORK NOT CONFORMING TO THE REQUIREMES OF THE CONTRACT DOCUMENTS. TO WORK OF OTHER TRADES CAUSED BY CUTTING AND PATCHING OPERATIONS, USING SKILLED MECHANICS OF THE TRADES INVOLVED

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GENERAL NOTES

EET DESCRIPTION: -

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ALL CONDUIT SIZES SPECIFIED IN THIS DOCUMENT WERE DONE TAKING INTO ACCOUNT THE USE OF COPPER CONDUCTORS ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL REMOVE SHARP EDGES.

ECTRICAL SERVICE
WERAL: COMPLY WITH AND CO-ORDINATE ALL REQUIREMENTS OF THE UTILITY COMPANY.

SHORT CHIGUIT PATINGS. PROVIDE EQUIPMENT WITH HOHER FAULT CLARBOT PATINGS AS REEDED TO MATCH UTILITY COMPANY AWALABLE FAULT CLARBOT. COMPANCTION TO VERRY UTILITY CO. FAULT CLARBOT AND DISCUSE THAT ALL EQUIPMENT MEETS FAULT CLARBOT (AN AMAILAM ALL EQUIPMENT TO BE 11/000 A.O.] HE COMPANDION IS RESPONSIBLE FOR MAKING ARRANGEMENTS WITH THE ELECTRIC UTILITY RELATINE TO A TIMELY INSTALLATION OF THE NEW SERVICE AND PAYING ALL ASSOCIATION FEES.

THE LOCATION SHOWN FOR A UTILITY POLE OR CONNECTION TO NEW UTILITIES IS FOR CONCEPTUAL USE ONLY. THE CONTRACTOR SHALL COORDINATE THE ACTUAL LOCATION WITH THE RECTRIC UTILITY. DENTIFICATION: IDENTIFY SERVICE DISCONNECTION NEARS WITH PERMANENT NAMEPIATE

CONTON AND ARRANGEMENTS. DRAWNESS NOIGHTE DIAGRAMANTICALLY THE DESIRED LOCATION OF EQUIPMENT, FIXTURES, OUTLETS, ETC., AND ARE NOT TO BE SOLED PROPER JUDGEMENT MAST BE DEFICISED IN THE EXECUTION TO BUSINES THE BEST POSSIBLE INSTALLATION. WEL AND DISTRIBUTION BOARD IDENTIFICATION. SWITCHBOARDS, PANEJBOARDS, TRANSFORMERS AND DISTRIBUTION SECTIONS SWALL BE IDENTIFIED WITH ENGRANDD WHITE ON BUACK LAMINATED, RIGID PHENOLIC NAMEPLATES WITH IN INCH CHARACTERS, SECURELY AFFIXED TO FACE OF CHEMET.

POWER CONDUCTORS CONTRACTOR SMALL CONDUCT A CONTINUITY AND INSULATION TEST ON CONDUCTORS BETWEEN SERVICE DISCONNECT SWITCH AND LOAD GENTER.
INVEN SITE POWER IS EXERVED FROM A 3-PHASE SOURCE, LOAD REJONGS WILL BE TAKEN AND RECORDED TO MAINTAIN A BALANCED LOAD AT THE PRIMARY SOURCE.
RECORDS SMALL BE RETURNED TO THE OWNERS REPRESENTATIVE. ORECOLOT, TESTING AND ADJESTING ORECTION MEDICAGEN, FATER TESTING OF CONTRACTOR, OWNER OR ENGINEER, CORRECT ANY DEFICIENCIES AND REPLACE MATERIALS, AND EQUIPMENT SHOWN TO BE SPECTING ER MANUEL TO PEOP ORM AT DESIGN OR BATED CAPACITY.

OBS CONDUTS, WHEN SEPCIFIED, SWILL MEET UL & FOR OLUNINZED STEEL ALL FITTINGS SWILL BE SUITIBLE FOR USE WITH THREASED REGICCIORUTS. I BLEETIFICH, METALLET THENG BEINT DER REGIL MONETPALLE CONDUT (REGID PIC SCHEDLLE 40, OR REGID PIC SCHEDLLE AF FOR LOCATIONS SUMECT TO PHYSICAL DAMACE) SWILL BEI EURS PICKEDZEED ROCKHE CANTONS. INDERGROUND CONDUIT SWILL BE SCHEDULE AP PIC CONDUIT ON BETTEN AS REQUIRED BY LOCAL JURISDICTION ANDER LITLITY, UNDERGROUND PAY CONDUIT SWILL INNORTHIN TO RED BALVAMEDE STEEL CONDUIT OF ADDITIONAL BE PICE ORDINATED STEEL (SEN) ONDOUT OR SCHEDULE BY PIC CONDUIT BEFORE SIND ABOVE GRACE OR CONCRETE SLAB EPOSED CONDUIT SWILL BE PICE ORDINATED STEEL (SEN) ONDOUT OR SCHEDULE BY PIC CONDUIT.

A ELECTRICAL NETALLO TUBNO (DAT) OR RIGID NONMETALLIO CONDUIT (RIGID PIC SCHEDILE A) SHALL BE USED FOR CONTEMED INDOOR LOCATIONS. 5. UDUD-TIGHT FLICRICE METALLIC CONDUIT (LICUID-TITE FLEX) SHALL BE USED INDOORS MO OUTDOORS, WHERE UBPATRIV COCCURS OR FLIGHEITY IS NEEDED. 5. PLUA AND CAPE EACH END OF SEARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PLIL STRINGS - 200 LE TEST POLYETHAY ENE CORD.

7, ALL CONDUIT BENDS SHALL BE MINIMUM OF 24-INCH RADIUS. B. ALL METALLIC RACEWAYS SHALL BE GROUNDED PER NEC.

THE CONTRACTOR SHALL FIELD YERRY THE BEST AND LEAST DISRUPTIVE ROLTING OF COXOLITS, CHBLE TRAYS AND DUCTS, CONDUIT ROLTING IS SHOWN AS A GLIDE ONLY ACTUAL CONDUIT PLACEMENT IS TO BE DONE IN A PROFESSIONAL MANNER.

ELEMBORADE INVOLVEDE SEVICIONAL UNDERGROUND ELECTRIC, TELEPHONE AND DIMER SEMICES IN THE VOLVED FOR CONTROL UNDERGROUND SEMICES MONE DAVID SEMICE ESSANCES IN THE CONTROLTED. THE CONTROLTED ME CALLES MAY PRESENT TO A MODE SEMICE TO A THE SEMICES AND ENTROLTED. THE CONTROLTED ME CALLES MAY PRESENT TO A MODE SEMICES AND ENTROLTED ME CALLES MAY PRESENT THE CONTROLTED. THE CONTROLTED ME CALLES MAY PRESENT THE CALLES MAY PRESENT

DENOR TO DOCUMIDA, A UTILITY MARK OUT SHALL BE DONE TO LOCATE DASTING UNDERSEADUND UTILITES. ALL INDERSEADUND UTILITES MAST BE LOCATED AND MARKED OUT PROOF TO ANY DOCUMENTOW MORK EING PERFORMED, PHOTOS SHALL BE TAKEN OF ALL UNDERSEADUND WORK AND OWEN TO THE OWNER OR OWNERS REPRESENTATIVE OUT PROOF TO EARTH WOODER.

, ALL TREMCHAIG AND EXCAVATION WITHEN EXISTING COMPOUNDS MUST BE PERFORMED BY MAIG IN ACCORDANCE WITH THE OWNER'S SPECIFICATIONS, ANY OTHER METHODS OF DIGGING MUST FIRST BE APPROVED BY THE CONSTRUCTION MAINGER. , ALL LOW VOLTAGE CONDUTT (800V OR 1255) SHALL HAVE A MINIMUM BURNL DEPTH OF 24", ALL HIGH VOLTAGE CONDUTT (800V OR MORD) SHALL HAVE A MINIMUM BURNL DEPTH OF 26", ALL HIGH VOLTAGE CONDUTT (800V OR MORD) SHALL HAVE A MINIMUM BURNL DEPTH OF 26", ALL HIGH VOLTAGE CONDUTT (800V OR MORD) SHALL HAVE A MINIMUM BURNL DEPTH OF 26", ALL HIGH VOLTAGE CONDUTT (800V OR MORD) SHALL HAVE A MINIMUM BURNL DEPTH OF 26", ALL HIGH VOLTAGE CONDUTT (800V OR MORD) SHALL HAVE A MINIMUM BURNL DEPTH OF 26", ALL HIGH VOLTAGE CONDUTT (800V OR MORD) SHALL HAVE A MINIMUM BURNL DEPTH OF 26", ALL HIGH VOLTAGE CONDUTT (800V OR MORD) SHALL HAVE A MINIMUM BURNL DEPTH OF 26", ALL HIGH VOLTAGE CONDUTT (800V OR MORD) SHALL HAVE A MINIMUM BURNL DEPTH OF 26", ALL HIGH VOLTAGE CONDUTT (800V OR MORD) SHALL HAVE A MINIMUM BURNL DEPTH OF 26", ALL HIGH VOLTAGE CONDUTT (800V OR MORD) SHALL HAVE A MINIMUM BURNL DEPTH OF 26", ALL HIGH VOLTAGE CONDUTT (800V OR MORD) SHALL HAVE A MINIMUM BURNL DEPTH OF 26", ALL HIGH VOLTAGE CONDUTT (800V OR MORD) SHALL HAVE A MINIMUM BURNL DEPTH OF 26", ALL HIGH VOLTAGE CONDUTT (800V OR MORD) SHALL HAVE A MINIMUM BURNL DEPTH OF 26", ALL HIGH VOLTAGE CONDUTT (800V OR MORD) SHALL HAVE A MINIMUM BURNL DEPTH OF 26", ALL HIGH VOLTAGE CONDUTT (800V OR MORD) SHALL HAVE A MINIMUM BURNL DEPTH OR 26", ALL HIGH VOLTAGE CONDUTT (800V OR MORD) SHALL HAVE A MINIMUM SHALL BURNL DEPTH OR 26", ALL HIGH WOLTAGE CONDUTT (800V OR MORD) SHALL HAVE A MINIMUM SHALL BURNL DEPTH OR 26", ALL HIGH WOLTAGE CONDUTT (800V OR MORD) SHALL HAVE A MINIMUM SHALL BURNL DEPTH OR 26", ALL HIGH WOLTAGE CONDUTT (800V OR MORD) SHALL HAVE A MINIMUM SHALL BURNL DEPTH OR 26", ALL HIGH WOLTAGE CONDUTT (800V OR MORD) SHALL BURNL DEPTH OR 26", ALL HIGH WOLTAGE CONDUTT (800V OR MORD) SHALL BURNL DEPTH OR 26", ALL HIGH WOLTAGE CONDUTT (800V OR MORD) SHALL BURNL DEPTH OR 26", ALL HIGH WOLTAGE (800V OR MORD) SHALL BURNL DEPTH OR 26", ALL HIGH WOLTAGE (800V OR MORD) SHALL BURNL DEPTH OR 26", ALL HIGH WOLTAGE (800V OR MORD) SHALL BURNL DEPTH OR 26", ALL HIGH WOLTAGE (800V OR MOR

UNDERCAROUND CONDUIT SHALL BE ENCASED IN REINFORCED CONCRETE IN AREAS OF VEHICLE TRAFFIC, CONCRETE ENCASEMENT SHALL BE 3º MINIMUM ALL AROUND AND RETWEEN CONDUITS.

ALL BURIED CONDUT SHALL BE IDENTIFIED WITH ELECTRICAL MARKER TAPE. TAPE SHALL BE PLACED 12" ABOVE CONDUT FOR EASY IDENTIFICATION.

8.11 <u>EQUIPMENT</u> 1. THE MAIN CIRCUIT BREAKER SHALL BE RATED FOR STANDARD A.L.C. RATING HIGHER THAN INCOMING EQUIPMENT A.L.C.

AL BECTRICAL COMPONENTS SMALL BE CLEMELY LABBED WITH EMBRANED PLASTIC LIBELS, ALL EQUIPMENT SMALL BE LABBEED WITH ITS VOLTAGE RATING, PHASE CONFIGURATION, WINE CONFIGURATION, POWER OR CAPACITY PATING AND BRANCH CIRCUIT ID NUMBERS (LE PANELEGIARD AND CIRCUIT ID'S). . ALL EQUIPMENT SHALL BE BRACED FOR STANDARD ALC. RATING ROBEST HAN ROCAMAG FROM (TILLITY CO. THE CONTRACTORS SHALL PROVIDE AN ITEMAZED CENTRICATION TO THE CONTROL FILE EQUIPMENT AND RELATED HADOWARE, SPECIFIED TO BE PURCHASED AND NETVALED BY THE CONTRACTOR, WHITE CROSED SHATMACH AND AS TO THE GOTTES TO PROCEED.

NETAL RECEPTACE, SWITCH AND DENCE BOXES SHALL BE CALVANCED, EPOXY-COATED OR NON-CORRODING: SHALL MEET OR EXCEED IL SIA AND NEIM OS 1, AND BE FINTED NEIM 1 (OR BETTER) INDICORS OR NEATHER-PROTECTED (NP OR BETTER) CUITDOORS.

NONMETALLS RECEPTIALE SWITCH AND DEVICE BOXES SHALL MEET OR EXCEED NEWA 05 2, AND RE WATED NEWA 1 (OR BETTER) INDOORS OR WEATHER-PROTECTED (NP OR BETTER) OUTDOORS.

12 TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS) TASS DEVICES FOR AC POWER SWALL BE INSTALLED IN ALL EXISTING FACILITIES THAT ARE MISSING TASS DEVICES OR HAVE UNSUTABLE TASS DEVICES

THE AC POWER COMMON MODE SURGE SUPPRESSOR SWILL BE CONNECTED TO THE COMMETCIAL POWER NATUT SIZE OF THE MANUAL TRANSPER SWITCH.

IN MARKETS WITH LUGHTHARD ZOME - OR - TO 4, FET TASS EXPORTE SMILL BE INSTALLED AT THE SHTWARE TO THE SHELTER OR AC CLOSE AS POSSIBLE TO THE SITS CASHIET
FOR OUTDOOR STEET, ON POTECTAT AWARD LIGHTING AND TRANSPERT FOR OUTDOOR STEET, ON POTECTAT AWARD LIGHTING AND TRANSPERT FOR OUTDOOR STEET, ON POTECTAT AWARD LIGHTING AND TRANSPERT FOR OUTDOOR STEET, ON POTECTAT AWARD LIGHTING AND TRANSPERT FOR OUTDOOR STEET, ON POTECTAT AWARD LIGHTING AND TRANSPERT FOR OUTDOOR STEET, ON POTECTAT AWARD LIGHTING AND TRANSPERT FOR OUTDOOR STEET, ON POTECTATION AND THE STEET AWARD AWARD LIGHTING AND THE STEET AWARD AWARD LIGHTING AWARD AWAR

I, A THTRANSPORT TVSS DEVICE SHALL BE INSTALLED AT ALL SITES BETWEEN THE NTU AND THE BTS

GROUNDING MATERIALS AND MOTES

THE SUBCOMPACTOR SHALL PREPAYTHAT THE SYSTEM IS GFFECTIVELY GROUNDED, METTS NEC ARTICLE 250 REQUIREMENTS, IS ACCEPTABLE TO THE LOCAL UTILITY /
THE SUBCOMPACTOR SHALL PREPAYTHAT THE SYSTEM IS GFFECTIVELY GROUNDED, METTS NEC ARTICLE 250 REQUIREMENTS, IS ACCEPTABLE TO THE LOCAL UTILITY /
THE SUBCOMPACTOR SHALL PREPAY THE CHARGES ELECTRICAL AND GROUNDES SPECIFICATIONS. FULLOWING CHARGES CHARG

PLANS PREPARED FOR

CROWN

2. ALL DETAILS SHOWN ME DIAGRAMANTICAL ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VIRRY DUE TO SITE SPECIFIC CONDITIONS.

1. NOTIFY CONSTRUCTION WANGER RY THEFLE ARE ANY DIFFICULTES INSTALLING THE GROUND SYSTEMACE TO SITE SPECIFIC CONDITIONS.

4. AGROUND CONNECTIONS, WANGER GROUND CONNECTIONS ARE MADE. THE CONTROL TOPOLOGY COLLEGES OF FOREIGN MATERIAL SUCH AS PART, CALLAMANOTION, AND GROEGESION, TO RESIDE THE CONTROL THE CONTR

S, GROUND WIRE -INSIDE WIRE SHALL BE NO. 5 AVC THAN OR THANZ CLASS 8 STRANDED COPPER CALE PAYED FOR 80 WC (MET AND DRY) DIFENTION, GREEN INSULATED IA. HIGH-STRAND COUNT WIRE IS PRETERRED.

EXOTHERMIC MEDING: EXOTHERMIC MEDIS SMALL BE CLOWELD, A REGISTERED TRUCEMARK OF ERCO PRODUCTS, INC. OF CLEVELAND, OHO, OR THERMOWELD, A DIVISION OF CONTINENTAL INDUSTRIES, INC. OF TILES OKLAHOMA OR EQUIVALENT.

, GROUND RODS SEY X-FEET (MINMAM LENGTH) STEEL WITH RARE COPPER JACKET NOT LESS THAN 0.0072 NO-KES THICK, GROUND RODS SHALL BE SPACED NO GREATER THAN 15 FT, O.C. AND NO LESS THAN 8 FT, O.C.

IS GROUND ROD COUPLING SET GROUND ROD COUPLING MADE OF THE SAME MATERIAL AS THE GROUND ROD TO PREVENT DESIMILAR METAL HIGH ODDATION POWNS.
IN CHARLING ROOMD ROD COMPRISED OF A HOLLOW COPPER GROUND ROD, A GROUND TEST WELL, A * 2 CONTRIBUNCILLY MAZIED PROTHL, AND COMPOUNDE BANDE IN A HOLLOW COPPER CROUND ROD, A GROUND TEST WELL, A * 2 CONTRIBUNCILLY MAZIED PROTHL, AND COMPOUNDE SHALL BE A MADE OF SHORT IN THE COPPER THE WINTAK A HAMMARY WILL PROCESS OF MEMORY OF SHORT IN THE CHARLING FOR A MADE OF SHORT IN LEGISLATION OF SHORT IN THE CHARLING FOR A MADE OF SHORT IN LEGISLATION OF SHORT IN THE CHARLING FOR A MADE OF SHORT IN LEGISLATION OF SHORT IN THE CHARLING FOR THE WINTAK A MADE OF SHORT IN LEGISLATION OF SHORT IN THE CHARLING FOR THE WINTAK A MADE OF SHORT IN LEGISLATION OF SHORT IN THE CHARLING FOR THE WINTAK A MADE OF SHORT IN LEGISLATION OF SHORT IN THE CHARLING FOR THE WINTAK A MADE OF SHORT IN LEGISLATION OF SHORT IN THE CHARLING FOR THE WINTAK A MADE OF SHORT IN LEGISLATION OF SHORT IN THE CHARLING FOR SHORT IN THE CHARLING FOR THE WINTAK A MADE OF SHORT IN LIGHT THE CHARLING FOR SHORT IN THE CHARLING FOR SHORT

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I, CUPS, WHEN SECURING ANY GROUND WIRES, SOLID OR STRANDED, NSULATED OR UNINSULATED, NEVER USE ANY CUPS OR OTHER DEVICES THAT ARE CONDUCTIVE AND FORM A CLOSED LOOP.

12. GROUND CLAMP: BURNOY CAN STYLE UL CLAMP WITH TWO-HOLE PROVISIONS FOR LONG BARREL MULTIPLE CRIMP TWO-HOLE LUGS.
17. GLOCK GROUNDING TIT, COAX GROUND KITT SHALL BE SOUTH FOR FOR SHALL BE SO

TO ANTENNA GROUNDING - ALL ANTENNAS (INCLIDING) THE GREAM THE RECOVERANCE TO THE RECOVERANCE AND BY THE GROUND WITS CONTROLLING CONNECTION TO THE CONTROLLING CONT

I SERVICE DISCONNECT GROUNDING: IF THERE IS A SERVICE DISCONNECT SEPARAT. FIRM THE DPC, MAN GEOLIT RESURESS, THE RETITMA, TO GROUND GROUP SHADLE ISE. MALE AT THE SERVICE DISCONNECT SWITCH LOCKTED SEPARATET AND ON THE SERVICE DIT FREE POCARRET, AND NO ADETTIONAL TO SERVICE DISCONNECTION STORT OF THE THE POCARRET, AND THE AND THAT CAN CENTRE THE VICE TO CODE.

RE MAD DUS POLE REPURTEMANCE INSTALLATION RELATED NOTES

11. (DOMANL_CHILE REQUIREMENTS)

12. (DEPOLE PROVIDE ALL LABOR, EQUIPMENT, AND INITEMALS NECESSANT FOR RECEIVING, INSTALLING, TESTING, AND ADJUSTING ANTENIA, CHILES PROVI THE ANTENIA, TO
THE CONNECTIONS AT THE DASK TRANSMISSION STITEM BYST, THIS SHALL PALLED FALL TO SHALL PROVIDED FOR A COMPLETE OPERATING STITEM, ANTENIA,
ANTENIA CHILES, DOWNSTETORS, AND ETITING SHALL ET PROVIDED THAT THE CONNECTIONS AT THE DASK TRANSMISSION SHALL BY THE PROVIDED THAT THE CONNECTIONS, AND THAT SHALL BY THE CONNECTIONS AT THE DASK TRANSMISSION SHALL BY THE CONNECTIONS, AND THAT SHALL BY THE CONNECTIONS, AND THAT SHALL BY THE CONNECTIONS, AND THAT SHALL BY THE CONNECTIONS AND THE CONNECTIONS AND THAT THE CONNECTIONS AND THE CONNECTIONS AND THAT THE CONNECTIONS AND THE PROVIDED SHALL BY THE CONNECTIONS AND THE CONNECTIONS AND THAT THE CONNECTIONS AND THE CO

COMMIL CHRETHS SHALL BE FELD MENSIFIED INSTALLER SHALL NOTIFY CHRRIER PRIOR TO PURCHASE OF CHREE OF THE OVERALL LENGTH RECUIRED.
COMMIL CHREE TYPE IN DODMNETER SHALL BE VERRTED WITH CARRIER.

C. COWAL CABLES SHALL BE LABIED IN ACCORDANCE MTH CARRIES BECTRICAL MATERIAS, AND METHODS SPECIPIONINS. ALL MAN CABLES WILL BE COLOR CODED AT THREE IDJURIONS. A) AT ANTENNA PRIOR TO JUMERS, B) EXTENSION PART OF THE WAVE GLIDE BYTRY PORT (AT THE SPELTER/CHIEF) WILL). O) INTENDR OF THE MALE GLIDE BYTRY PORT (AT THE SPELTER/CHIEF) WILL). O) INTENDR OF THE WAVE GLIDE BYTRY PORT (A) THE SPELTER/CHIEF WILL). O) INTENDR OF THE WAVE GLIDE BYTRY PORT (A) THE SPELTER/CHIEF WILL). O) INTENDR OF THE WAVE GLIDE BYTRY PORT (A) THE SPELTER/CHIEF WILL).

NSTALL CONNECTIONS TO COMPLETION OF THE SMEEP TEST, THE CONTRACTOR SMALL PROVIDE A MEATHERTIGHT SEAL ON THE COAX CABLES AT THE ANTENNA CONNECTION.

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THE MINIMIN BENDING BADUS FOR ALL ANTENIA CHILES SHALL BE AS SHOWN BELOW OR PER THE MANUFACTURER, WHICHEFER IS MOTE CONSERVATIVE. BLE IN ARE OR CHILETRAY IN COMOUNT.

CABLE IN AIR OR CABLE TRAY

EF OF THE NOTALLED WITH THE MINIMAM NUMBER OF BENDS, CABLE SHALL NOT BE LEFT UNTERMINATED IN THE FIELD. CABLES SHALL NOT BE LEFT UNTERMINATED IN THE FIELD.

, GROUNDING KITS - AFTER NETALLATION OF GROUND STRUPS, THE CONNECTIONS SHALL BE MADE THE THEFT TIGHT USING MEATHEDPROOF KITS AS IDENTIFED, GROUND INFORMED THE CONNECTION BY ALL BE MADE TO GROUNDING STRIPL.

ZANTEAN REQUIREMENTS

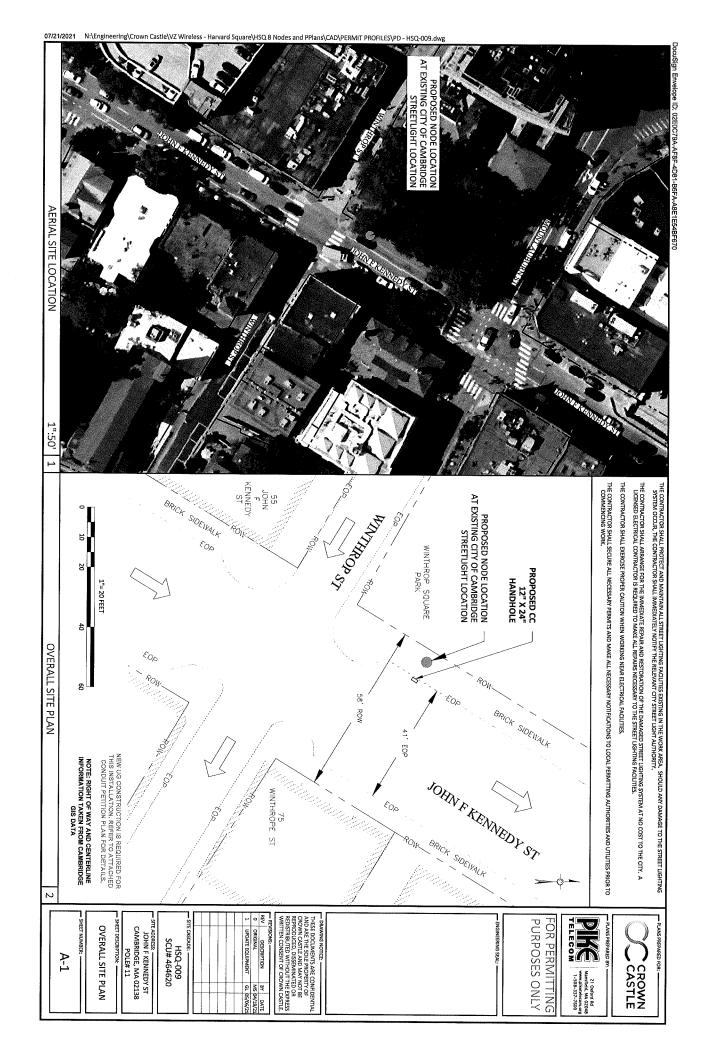
ACCOMMENTED GLOCOMMER FROM TRUE NORTH.

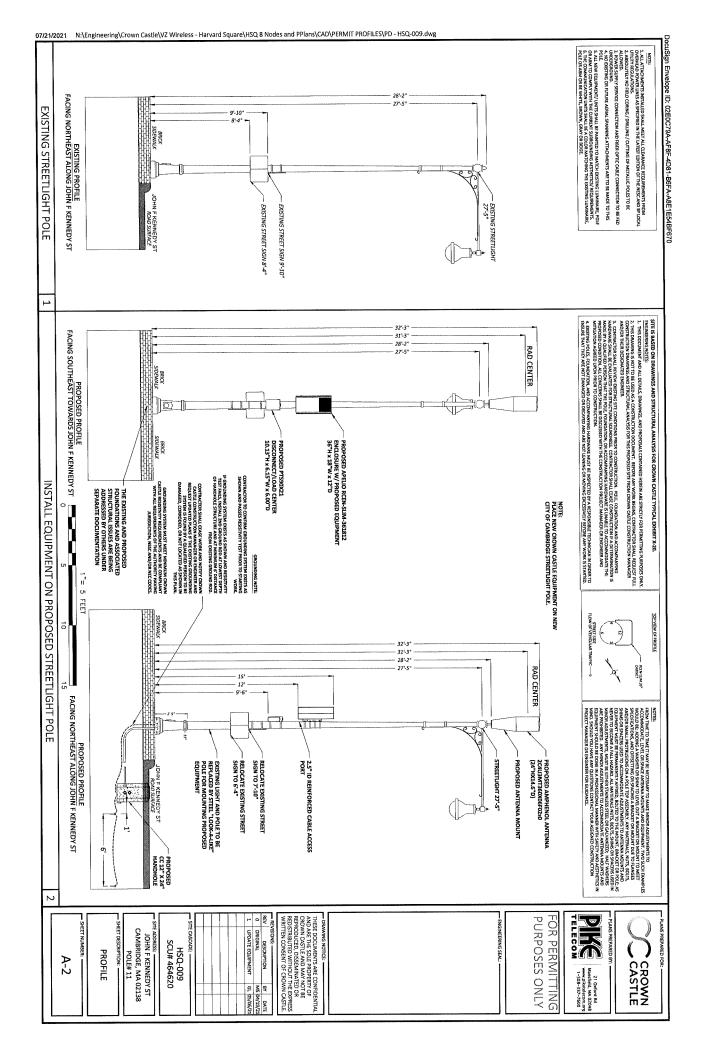
UPDATE EQUIPMENT DESCRIPTION ORIGINAL BY DATE MS 04/19/21 GL 05/06/21

)9 620

CAMBRIDGE, MA 02138 JOHN F KENNEDY ST POLE# 11

GENERAL NOTES





EXISTING PHOTOGRAPHIC VIEW - FACING NORTHWEST

PROPOSED PHOTOGRAPHIC SIMULATION - FACING NORTHWEST

PHOTOGRAPHIC SIMULATION

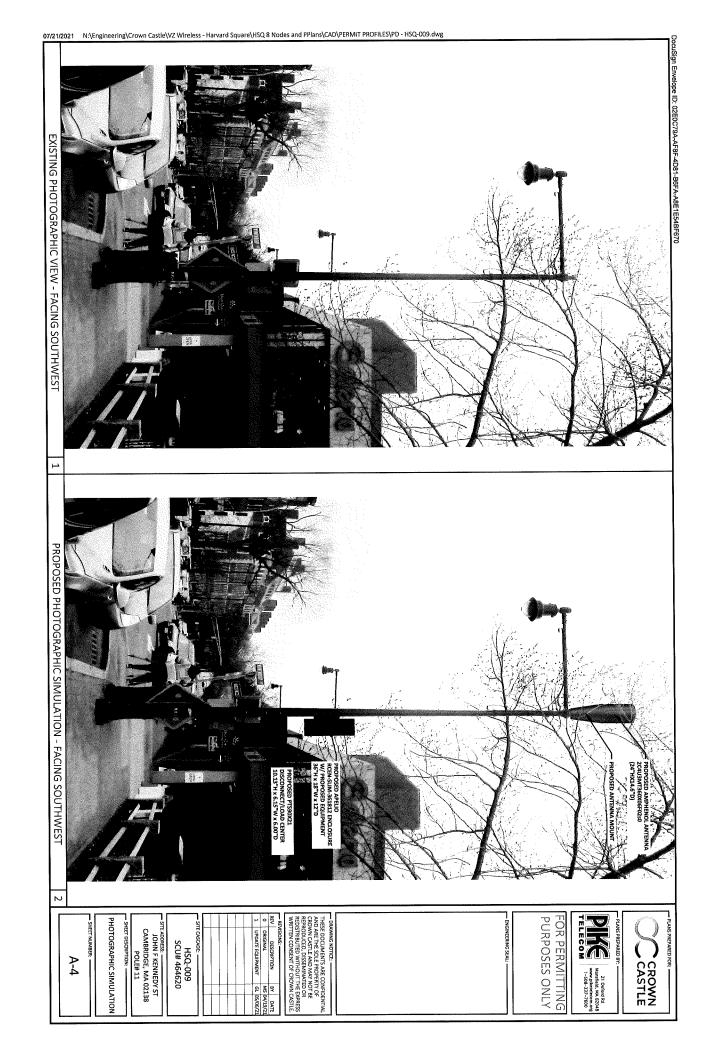
JOHN F KENNEDY ST CAMBRIDGE, MA 02138 POLE# 11

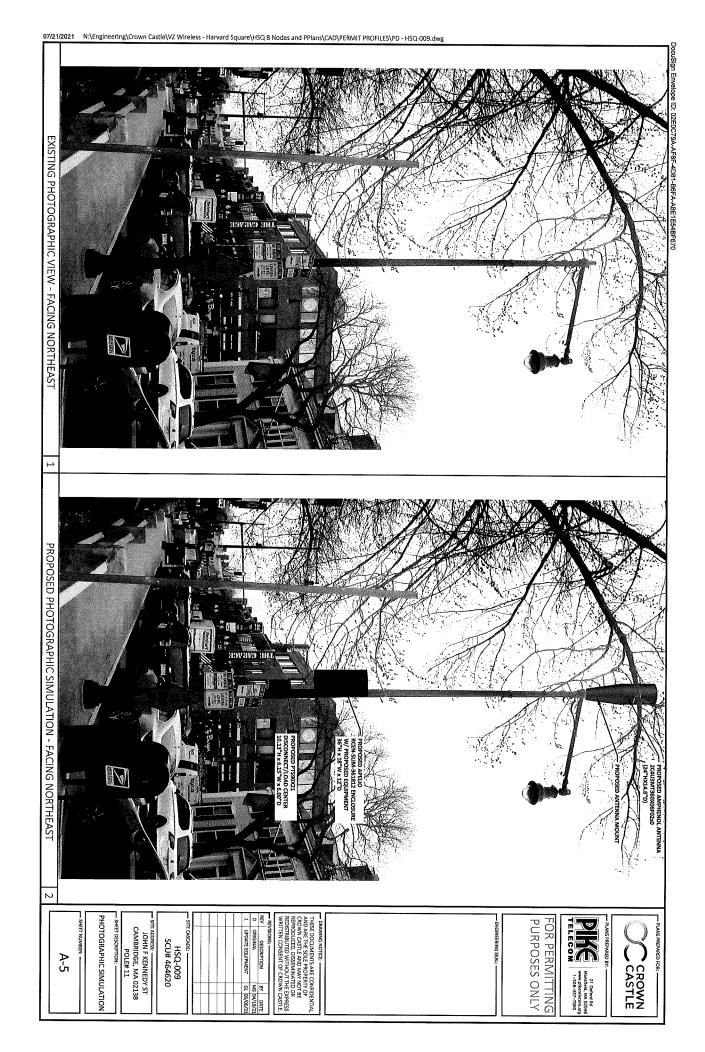
HSQ-009 SCU# 464620

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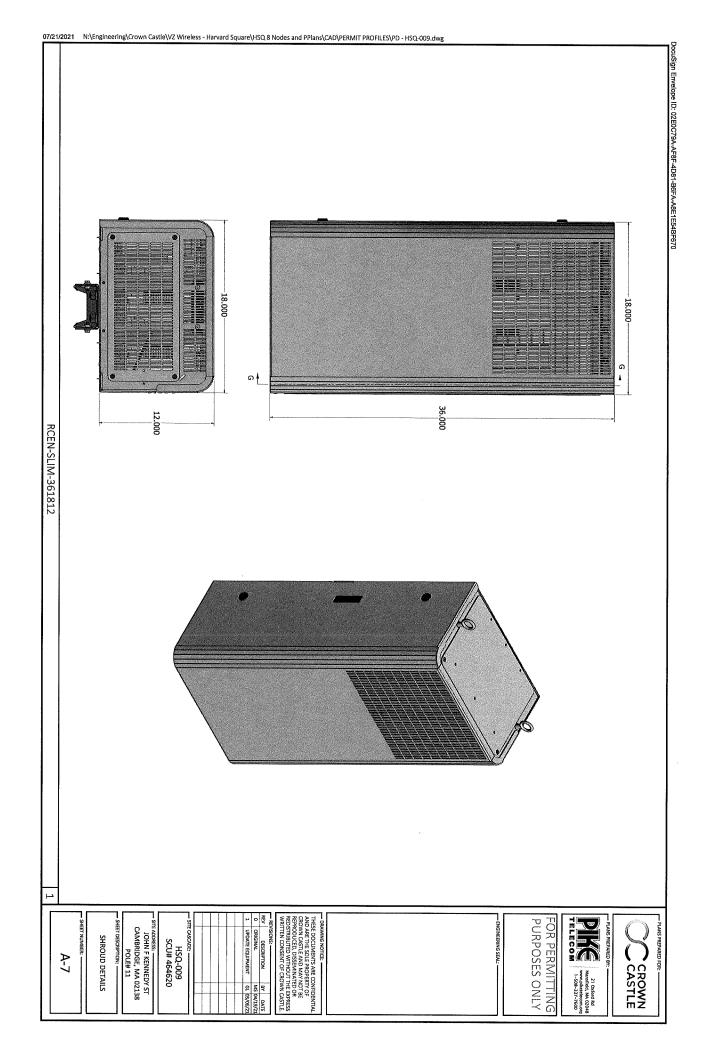
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CBC626TDL-4310 | E11F13P04 Twin Diplexer 555-960/1695-2690MHz,DC Low,4.3-10

- Full performance in a fraction of the size
- High power handlling
- Includes 600 MHz and AWS-3/4 bands
- New 4.3-10 connectors for improved PIM performance and size reduction
- dc/AISG pass-through on low frequency port
- **Mechanical Specifications**

Dimensions

Finish

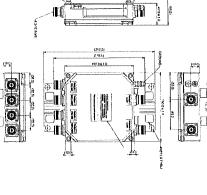
Painted

RF Connector Interface Body Style Long neck

RF Connector Interface

4.3-10 Female

Height Width Weight Depth 1.8 kg | 4.0 lb 47.0 mm | 1.9 in 150.0 mm | 5.9 in 150.0 mm | 5.9 in



TWIN DIPLEXER (CBC626T-DL-4310 / E11F13P04)

7825719-0002 CAP H 7E/80-85/17E/19 F-AC-F1



Carrier Access Point with 4-Band Support for High Power LMR 750, USA 700, USA 750, SMR 800, CEL 850, AWS 1700 and PCS 1900 Applications, Fiber Fed with Fan Kit

Product Classification

Product Brand Product Type ERA® Access point

General Specifications

Minimum Software Requirement

Mounting

Note

RF Antenna Port, quantity

Dimensions

Helght

ALC Default Threshold

Electrical Specifications

Electrical Safety Standard

Electromagnetic Compatibility (EMC) Electrical Safety Standard Note

Tatness, inband link

License Band mpedance

Pole | Wall 10N-E SW V27

RF Antenna Port Interface Power Type

High

4.3-10 Female

Detailed Product Specifications are available. Please contact your local CommScope representative.

220 mm | 8.661 in 176 mm | 6.929 in 824 mm | 32.441 in

-45 dBm IEC 62368 | UL 62368

This is not a consumer device. Additional information for US FCC on product label.

EN 301489

±2 dB

50 ohm

AWS 1700 | CEL 850 | LMR 750 | PCS 1900 | SMR 800 | USA 700 | USA

CROWN

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		UPDATE EQUIPMENT	ORIGINAL	DESCRIPTION	- REVISIONS:
		ክ	š	ΒY	1
		GL 05/06/21	MS 04/19/21	DATE	

SCU# 464620	HSQ-009	CASCADE:
		1

JOHN F KENNEDY ST CAMBRIDGE, MA 02138 POLE# 11

HEET DESCRIPTION:

EQUIPMENT DETAILS

A-8

CAP-H 7E/80-85/17E/19 F-AC-F1

Frequency Sub-Range

roquency Range

ELECTRICAL SPECIFICATIONS Low Band

Radome Color Options

GREY, BROWN or BLACK

Dimensions

Connector Type Configuration

Total Connector Count

Electrical Downtilt

ď 360°

20, 40, 60

3%0°

OMNI CONFIGURATION

4.3-10 FEMALE 18 PORTS Azimuth Beamwidth (wg) Polarization

Š

Array

■ R1 ■ R2 (2x) 696-960 4 PORTS

:::: **≾**

※が3

8 PORTS

(4x) 1695-2700

š

15° CONNECTOR SPACING

Frequency Range (MHz)

é

Azimuth Beamwidth (3 dB)
Elevation Beamwidth (3 dB)

96.9° ± 26.7°

360° 5.7 4.2 ± 0.9 696-806

MAX BASTA

Electrical Downtilt

Impedance

Ohms degrees degrees Ö. ₿ | 몵

s 1.5:1

50 (x) 0°

< -153

8 ₹

2C4U3MT360X06Fxys0 1

Input Power

Interband intraband

8 8 8 dBc

Passive Intermodulation
3rd Order for 2x20 W Carriers

Upper Sidelobe Suppression

Amphenol AMTENNA SOLUTIONS

2C4U3MT360X06Fxys0

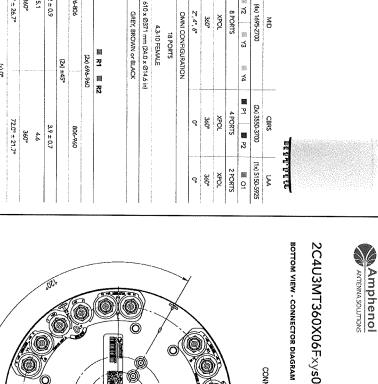
5G Pseudo Omni configuration with 18 connectors ledeal for Small (Call / DAS applications This antenna meets the requirements of the U.NII Available for order with a grey, brown or black radome

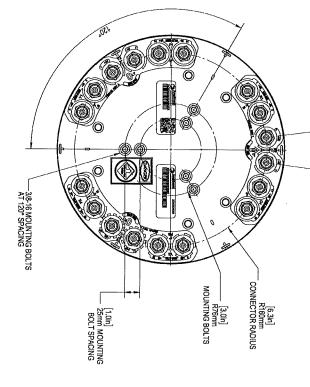
ocuSign Envelope ID: 02E0C79A-AF8F-4D81-B6FA-A8E1E54BF670

18-Port Canister Antenna (2x) 696-960 | (4x) 1695-2700 | (2x) 3550-3700 | (1x) 5150-5925 MHz

24 IN FIXED THE









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18-Port Canister Antenna (2x) 696-960 | (4x) 1695-2700 | (2x) 3550-3700 | (1x) 5150-5925 мнг

OMNI 24 IN PIXED THE

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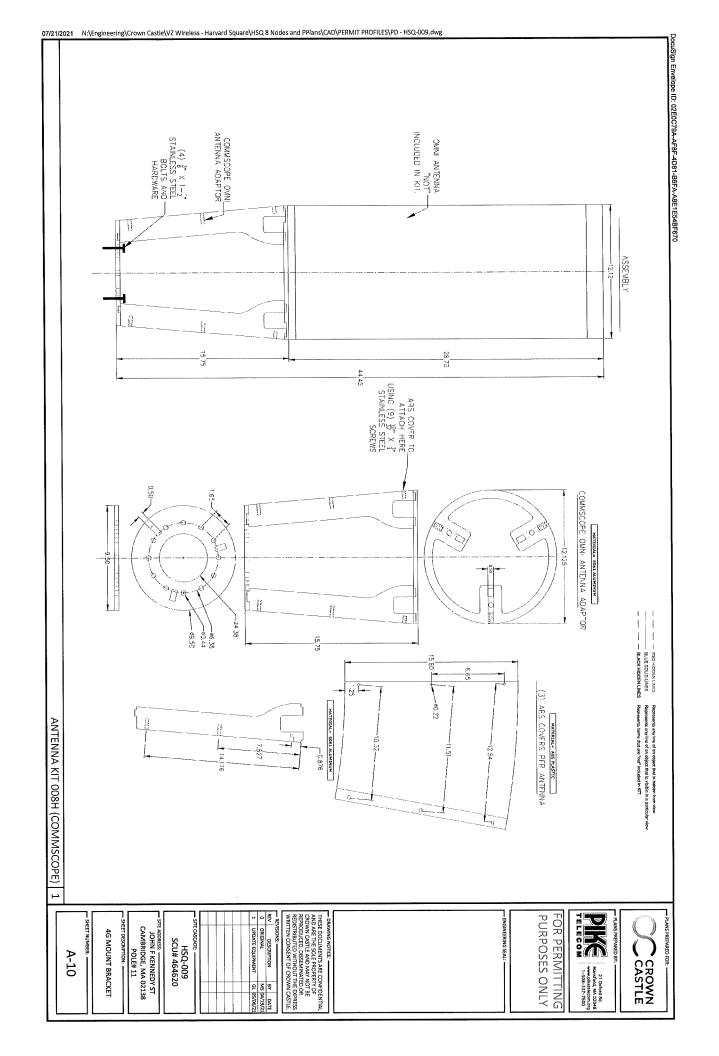
HSQ-009 SCU# 464620

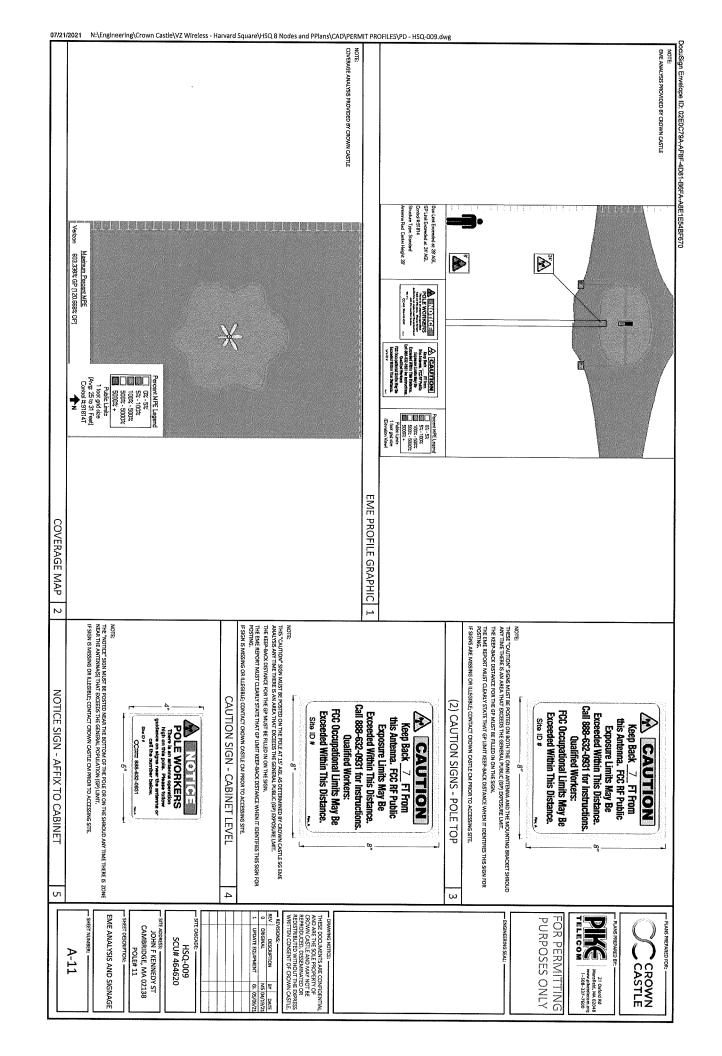
JOHN F KENNEDY ST CAMBRIDGE, MA 02138 POLE# 11

4G ANTENNA DETAILS

A-9

2C4U3MT360X06Fxys0 - PORT DIAGRAM







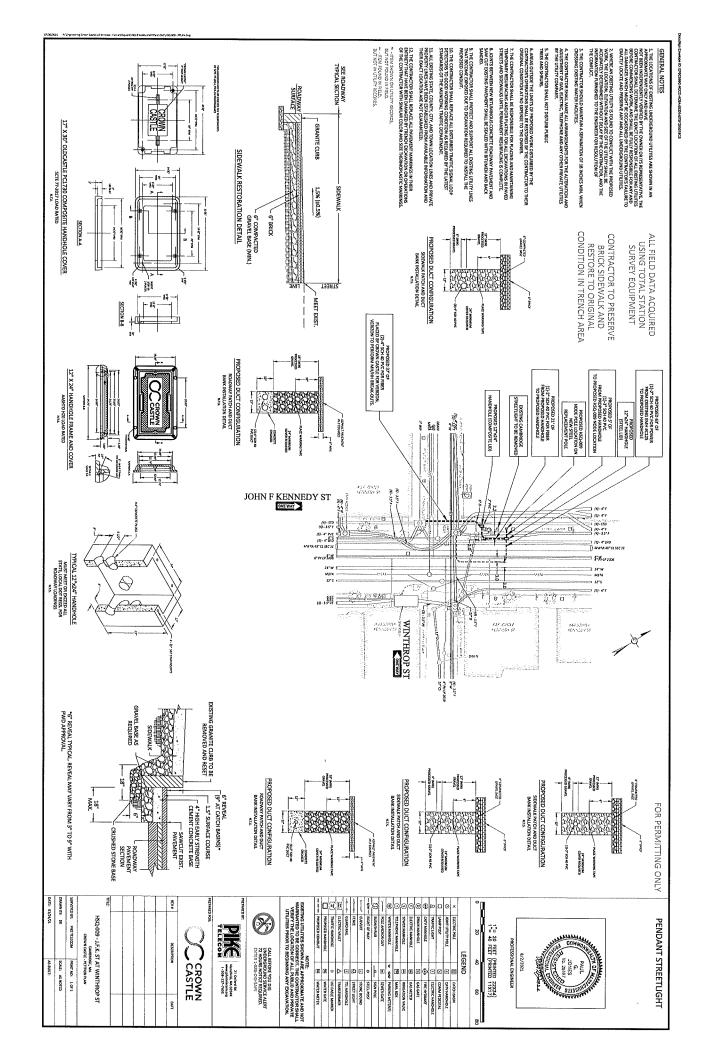
JOHN F. KENNEDY ST AT WINTHROP ST IN THE CITY OF CAMBRIDGE, MA **PETITION PLAN** FOR

SMALL CELL POWER AND FIBER LATERAL NODE HSQ_009



SHEET INDEX

2 P	1 C	SHEET#
PETITION PLAN	COVER STREET	DESCRIPTION





JOHN F. KENNEDY ST AT WINTHROP ST PROPOSED CONDUIT INSTALLATION TRAFFIC MANAGEMENT PLAN FOR

CAMBRIDGE, MA

SMALL CELL POWER AND FIBER LATERAL NODE HSQ_009



SHEET INDEX

DESCRIPTION

COVER SHEET

TRAFFIC MANAGEMENT PLAN - PHASE 1

