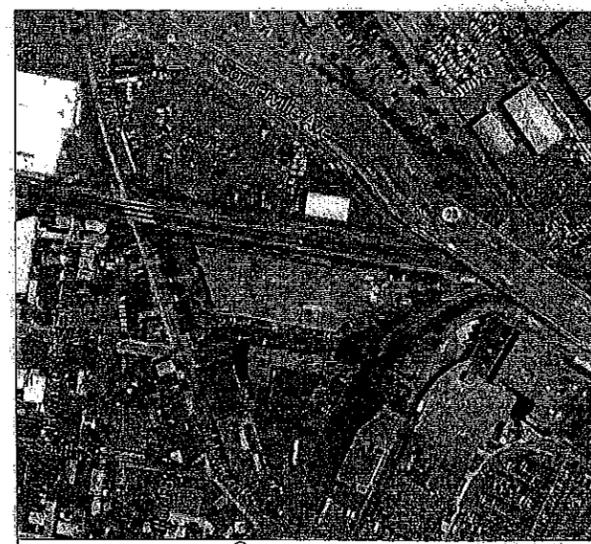




SOMERVILLE-CAMBRIDGE

39R MEDFORD STREET
SOMERVILLE, MA 02143

FOR CONSTRUCTION



GOOGLE MAPS - MAP DATA © 2014 GOOGLE
VICINITY MAP SCALE: N.T.S.

DIRECTIONS TO SITE:
DEPART 285 BILLERICA RD, CHELMSFORD, MA 01824 ON BILLERICA RD (SOUTH-EAST), TAKE RAMP (RIGHT) ONTO US-3 TOWARDS US-3 / BURLINGTON / BOSTON. KEEP STRAIGHT ONTO RAMP. AT EXIT 32B, TAKE RAMP (LEFT) ONTO I-95 [US-3]. AT EXIT 37A, TAKE RAMP (RIGHT) ONTO I-93 TOWARDS I-93 / BOSTON. AT EXIT 30, TURN RIGHT ONTO RAMP TOWARDS RT-2B / RT-38 / MYSTIC AVE / SOMERVILLE. TURN LEFT (SOUTH-EAST) ONTO SR-38 [MYSTIC AVE]. BEAR RIGHT (SOUTH) ONTO SR-28 [MCGRATH HWY]. TURN RIGHT ONTO RAMP TOWARDS SOMERVILLE AVE. BEAR RIGHT (SOUTH) ONTO MEDFORD ST.
ARRIVE 39 MEDFORD ST, SOMERVILLE, MA 02143

DIG SAFE
3 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 888-DIG-SAFE
UNDERGROUND SERVICE ALERT

PROJECT TEAM

PROJECT ENGINEER
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PROJECT DESCRIPTION

- THIS IS AN UNMANNED FACILITY - NO SOLID WASTE. THE SITE WILL CREATE NO TRASH, THUS REQUIRES NO DUMPSTER.
- DEVELOPMENT AND USE OF THIS FACILITY WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.

PROJECT SUMMARY

SITE NAME: SOMERVILLE-CAMBRIDGE
SITE ADDRESS: 39R MEDFORD STREET SOMERVILLE, MA 002143
APPLICANT: BELL ATLANTIC MOBILE OF MASSACHUSETTS CORPORATION, LTD d/b/a VERIZON WIRELESS
ZONING DISTRICT: TD0100 (TRANSIT ORIENTED DISTRICTS)
ZONING JURISDICTION: CITY OF SOMERVILLE, MA
LATITUDE: N 42° 22' 29"
LONGITUDE: W 71° 05' 14"
MAP/BLOCK/LOT: MAP: 113/B/2
BLOCK/PAGE: 22639/139
PROPERTY OWNER: SURE LOCK BUILDING TRUST C/O SLM I P.O.BOX 198 STILLWATER MN 55082
DEED: 22639-139
CONTACT: BRYCE GREFE STORAGE INVESTMENT MANAGEMENT P.O.BOX 91206 WEYMOUTH, MA 02191
PHONE: (617) 908-6559

CODE COMPLIANCE

THE 8TH EDITION OF MASSACHUSETTS STATE BUILDING CODE, IS COMPRISED OF THE FOLLOWING IBC 2009 CODES
INTERNATIONAL BUILDING CODE
WITH 780 CMP-MASSACHUSETTS AMENDMENTS
INTERNATIONAL EXISTING BUILDING CODE
INTERNATIONAL ENERGY CONSERVATION CODE
INTERNATIONAL MECHANICAL CODE
INTERNATIONAL FIRE CODE
527 CMR MA FIRE PREVENTION AND ELECTRICAL REGULATIONS
NATIONAL ELECTRICAL CODE

SHEET INDEX

SHT. NO.	DESCRIPTION
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GN-1	GENERAL NOTES
GN-2	MATERIAL AND FINISH SPECS.
C-1	EXISTING SITE PLAN
C-2	PROPOSED SITE PLAN
D-1	DEMOLITION PLAN
A-1	PROPOSED EQUIPMENT PLAN
A-2	CONSTRUCTION FLOOR PLAN
A-3	EXTERIOR ELEVATIONS
A-4	EQUIPMENT AND LADDER PLANS, AND DETAILS
A-5	TRANSFORMER PLAN, ELEVATIONS, AND DETAILS
A-6	GENERAL NOTES AND EQUIPMENT ISOMETRIC DETAILS
A-7	WALL TYPES, DOOR AND ROOM SCHEDULES
A-8	MISCELLANEOUS DETAILS
A-9	MISCELLANEOUS DETAILS

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TITLE SHEET

REV	DATE	DESCRIPTION	BY	CHK	APP'D
1	7/24/14	ISSUED FOR REVIEW	VT	BGP	JR
1	9/01/14	ISSUED FOR CONSTRUCTION	VT	BGP	JR

SOMERVILLE-CAMBRIDGE
39R MEDFORD STREET
SOMERVILLE, MA 02143

T-1

DIVISION 01000 - GENERAL REQUIREMENTS

PART 1 - GENERAL

REFER TO VERIZON STANDARD CONSTRUCTION SPECIFICATIONS. IN CASE OF A CONFLICT, VERIZON STANDARD CONSTRUCTION SPECIFICATIONS (LATEST EDITION) SHALL BE FOLLOWED.

PART 2 - GENERAL NOTES

- 1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) VERIZON'S REPRESENTATIVE OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK.
4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE THEMSELVES WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS.
6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS / CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S / VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
8. THE CONTRACTOR SHALL MAINTAIN A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUM'S OR CLARIFICATIONS AVAILABLE FOR THE USE OF ALL PERSONNEL INVOLVED WITH THE PROJECT.
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
11. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SITE CONDITIONS DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
12. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE ALL UNNECESSARY MATERIAL.
13. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT SECTIONS OF THE STATE BASIC BUILDING CODE, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT/ENGINEER.
14. THE CONTRACTOR SHALL NOTIFY VERIZON'S REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL THE CONFLICT IS RESOLVED BY VERIZON'S REPRESENTATIVE.
15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
16. THE CONTRACTOR SHALL NOTIFY THE RF ENGINEER FOR ANTENNA AZIMUTH VERIFICATION (DURING ANTENNA INSTALLATION) PRIOR TO CONDUCTING SITE SWEEPING.
17. THE GENERAL CONTRACTOR SHALL IN ALL INSTANCES CONFORM TO THE SPECIFICATIONS ISSUED BY VERIZON.
18. PROVIDE CORE DRILLING AS NECESSARY FOR PENETRATIONS OR RISERS THROUGH THE BUILDING. DO NOT PENETRATE STRUCTURAL MEMBERS WITHOUT STRUCTURAL ENGINEER'S APPROVAL. SLEEVES AND/OR PENETRATIONS IN FIRE RATED CONSTRUCTION SHALL BE PACKED WITH FIRE RATED MATERIAL WHICH SHALL MAINTAIN THE FIRE RATING OF THE STRUCTURE. FILL FOR FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATER, SMOKE FIRE AND GASES. ALL MATERIAL SHALL BE UL APPROVED FOR THIS PURPOSE.

CONCRETE

CAST-IN-PLACE CONCRETE

PART 1 - GENERAL

1.01 DESCRIPTION

WORK INCLUDES CONSTRUCTION OF CAST-IN-PLACE CONCRETE FOUNDATIONS, INCLUDING FURNISHING AND INSTALLING READY-MIX CONCRETE, REINFORCEMENT, FORMWORK, AND ACCESSORY MATERIALS AS SHOWN ON THE DRAWINGS. CAST-IN-PLACE CONCRETE INCLUDES ALL SITE CONCRETE, INCLUDING FOUNDATIONS, SLABS ON GRADE, EQUIPMENT PADS, AND GUARD POST FOUNDATIONS.

1.02 RELATED WORK

- A. COORDINATE UNDER SLAB CONDUITS
B. COORDINATE WITH GROUNDING

1.03 APPLICABLE STANDARDS

- A. ACI-301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS.
B. ACI 347 - GUIDE TO FORMWORK FOR CONCRETE.
C. ASTM C33 - CONCRETE AGGREGATES
D. ASTM C94 - READY-MIXED CONCRETE
E. ASTM C150 - PORTLAND CEMENT
F. ASTM C260 - AIR-ENTRAINING ADMIXTURES FOR CONCRETE.
G. ASTM C309 - LIQUID MEMBRANE FORMING COMPOUNDS FOR CURING CONCRETE.
H. ASTM C494 - CHEMICAL ADMIXTURES FOR CONCRETE.
I. ASTM A618 - DEFORMED STEEL BARS FOR CONCRETE REINFORCEMENT.
J. ASTM A185 - STEEL WELDED WIRE FABRIC FOR CONCRETE REINFORCEMENT.

1.04 QUALITY ASSURANCE

CONCRETE MATERIALS AND OPERATIONS SHALL BE TESTED AND INSPECTED BY THE ENGINEER AS DIRECTED BY VERIZON.

1.05 TESTS

CONCRETE TESTS SHALL BE AS DETAILED BELOW OR AS DIRECTED BY VERIZON. CONCRETE MATERIALS AND OPERATIONS SHALL BE TESTED AND INSPECTED BY THE ENGINEER AS THE WORK PROGRESSES. FAILURE TO DETECT ANY DEFECTIVE WORK OR MATERIAL SHALL NOT IN ANY WAY PREVENT LATER REJECTION WHEN SUCH DEFECT IS DISCOVERED NOR SHALL IT OBLIGATE THE ENGINEER FOR FINAL ACCEPTANCE.

A. THREE CONCRETE TEST CYLINDERS SHALL BE TAKEN OF THE TOWER PIER FOUNDATION. ONE SHALL BE TESTED @ THREE DAYS, ONE @ TWENTY-EIGHT DAYS. THE THIRD CYLINDER SHALL BE KEPT SEPARATELY. (IF REQUIRED TO BE USED IN THE FUTURE)

B. ONE SLUMP TEST SHALL BE TAKEN FOR EACH SET OF TEST CYLINDERS TAKEN. SLUMP SHALL NOT EXCEED 4" UNLESS OTHERWISE NOTED.

PART 2 - PRODUCT

2.01 CONCRETE MATERIALS

CONCRETE SHALL BE COMPOSED OF PORTLAND CEMENT, WATER, FINE AND COARSE AGGREGATES, AND ADMIXTURES AS SPECIFIED BELOW, ALL WELL MIXED AND BROUGHT TO PROPER CONSISTENCY, CLASS 1, II, III, OR V.

A. CEMENT: CEMENT SHALL BE TYPE II, GRAY COLOR, LOW-ALKALI PORTLAND CEMENT CONFORMING TO ASTM C150.
B. FINE AND COARSE AGGREGATES: AGGREGATES FOR USE IN CONCRETE SHALL COMPLY WITH ASTM C33.

C. WATER: WATER FOR MIXING AND CURING CONCRETE SHALL BE FREE FROM SEWAGE, OIL, ACID, ALKALI, AND SALTS AND SHALL BE FREE FROM OBJECTIONABLE QUANTITIES OF SILT, ORGANIC MATTER, AND OTHER DELETERIOUS SUBSTANCES.

2.02 ADMIXTURES

A. CHEMICAL ADMIXTURE: ASTM C494, TYPE A - WATER REDUCING OR TYPE D - WATER REDUCING AND RETARDING.
2.03 CURING COMPOUND: ASTM C309, TYPE 1, CLASS B, TRANSLUCENT.

2.04 ACCESSORIES

A. NONSHRINK GROUT: PREMIXED COMPOUND CONSISTING OF NONMETALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING AGENTS; CAPABLE OF DEVELOPING MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI IN 28 DAYS.

B. JOINT FILLER: BITUMINOUS TYPE, ASTM D1751 OR NON-BITUMINOUS TYPE ASTM D1752.

C. ANCHOR BOLTS: ASTM A307, UNFIRMED.

2.05 CONCRETE MIX

A. CONCRETE SHALL BE PROPORTIONED PER REQUIREMENTS OF ACI 301 & VERIZON CONSTRUCTION SPECIFICATIONS FOR DESIGN STRENGTH & WORKABILITY. CONCRETE SHALL BE DELIVERED WITHIN 45 MINUTES OF ADDITION OF WATER TO MIX.

- B. THE FOLLOWING STRENGTHS SHALL BE USED:
1. FENCE POST FOUNDATIONS - DESIGN COMPRESSIVE STRENGTH AT 28 DAYS OF 3,000 PSI.
2. EQUIPMENT FOUNDATION - DESIGN COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED. (CONTRACTOR FURNISH 4,000 PSI CONCRETE).
3. CONCRETE STRENGTH FOR MONOPOLE OR TOWER FOUNDATION SHALL BE 1,000 PSI MORE THAN THE MANUFACTURER'S RECOMMENDATIONS, 4,000 PSI MINIMUM.

C. USE ACCELERATING ADMIXTURES IN COLD WEATHER AND RETARDING ADMIXTURES IN HOT WEATHER ONLY WHEN APPROVED BY THE ENGINEER.

D. TOTAL AIR CONTENT SHALL BE 6 PERCENT PLUS OR MINUS 1 PERCENT.

PART 3 - EXECUTION

3.01 INSPECTION

THE CONTRACTOR SHALL VERIFY ANCHORS, SEATS, PENETRATIONS, PLATES, REINFORCEMENT, AND OTHER ITEMS TO CAST INTO CONCRETE ARE ACCURATELY PLACED, HELD SECURELY, AND SHALL NOT CAUSE HARSHNESS IN PLACING CONCRETE.

3.02 PREPARATION

A. THE CONTRACTOR SHALL PREPARE PREVIOUSLY PLACED CONCRETE BY CLEANING WITH STEEL BRUSH AND APPLYING BONDING AGENT. APPLY BONDING AGENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

3.03 PLACING CONCRETE

A. THE ENGINEER SHALL BE NOTIFIED NOT LESS THAN 24 HOURS IN ADVANCE OF CONCRETE PLACEMENT. UNLESS INSPECTION IS WAIVED IN EACH CASE, PLACING OF CONCRETE SHALL BE PERFORMED ONLY IN THE PRESENCE OF THE ENGINEER.

CONCRETE SHALL NOT BE PLACED UNTIL ALL FORM WORK, EMBEDDED PARTS, STEEL REINFORCEMENT, FOUNDATION SURFACES, AND JOINTS INVOLVED IN THE PLACING HAVE BEEN APPROVED, AND UNTIL FACILITIES ACCEPTABLE TO THE VERIZON REPRESENTATIVE HAVE BEEN PROVIDED AND MADE READY FOR ACCOMPLISHMENT OF THE WORK AS SPECIFIED. CONCRETE MAY NOT BE ORDERED FOR PLACEMENT UNTIL ALL ITEMS HAVE BEEN APPROVED AND VERIZON HAS PERFORMED A FINAL INSPECTION AND GIVEN APPROVAL TO START PLACEMENT IN WRITING.

B. UNLESS SPECIFIED TO BE BEVELED, EXPOSED EDGES OF FLOATED OR TROWELED SURFACES SHALL BE EDGED WITH A TOOL HAVING A 1/4" CORNER RADIUS.

C. PLACEMENT OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301.

D. THE CONTRACTOR SHALL ENSURE THAT REINFORCEMENT, INSERTS, EMBEDDED PARTS, FORMED JOINTS AND VAPOR BARRIERS ARE NOT DISTURBED DURING CONCRETE PLACEMENT.

E. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST EARTH.....3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 AND LARGER.....2 IN.
#5 AND SMALLER & WWF.....1 1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
SLAB AND WALL.....3/4 IN.
BEAMS AND COLUMNS.....1 1/2 IN.

3.04 SURFACE FINISHES

A. SURFACES AGAINST WHICH BACK FILL OR CONCRETE SHALL BE PLACED REQUIRE NO TREATMENT EXCEPT REPAIR OF DEFECTIVE AREAS.

B. SURFACES THAT WILL BE PERMANENTLY EXPOSED SHALL PRESENT A UNIFORM FINISH PROVIDED BY THE REMOVAL OF FINES AND THE FILLING OF HOLES AND OTHER IRREGULARITIES WITH DRY PACK GROUT, OR BY SACKING WITH UTILITY OR ORDINARY GROUT.

C. SURFACES THAT WOULD NORMALLY BE LEVEL AND WHICH WILL BE PERMANENTLY EXPOSED TO THE WEATHER SHALL BE SLOPED FOR DRAINAGE. UNLESS ENGINEER'S DESIGN DRAWING SPECIFIES A HORIZONTAL SURFACE OR SHOWS THE SLOPE REQUIRED, THE TOPS OF NARROW SURFACES, SUCH AS STAIR TREADS, WALLS, CURBS, AND PARAPETS SHALL BE SLOPED APPROXIMATELY 3/8" / FT OF WIDTH. BROADER SURFACES SUCH AS WALKS, ROADS, PARKING AREAS AND PLATFORMS SHALL BE SLOPED APPROXIMATELY 1/4" / FT.

D. SURFACES THAT WILL BE COVERED BY BACKFILL OR CONCRETE SHALL BE SMOOTH SCREEDED.

E. EXPOSED SLAB SURFACES SHALL BE CONSOLIDATED, SCREEDED, FLOATED, AND "STEEL TROWELED." HAND OR POWER-DRIVEN EQUIPMENT MAY BE USED FOR FLOATINGS WHICH SHALL BE STARTED AS SOON AS THE SCREEDED SURFACE HAS ATTAINED A STIFFNESS TO PERMIT FINISHING OPERATIONS. ALL EDGES MUST HAVE A 3/4" CHAMFER. CONCRETE EXPANSION ANCHORS AND EPOXY ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS, SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. MANUFACTURER'S MINIMUM CONCRETE EDGE DISTANCE SHALL BE MAINTAINED DURING INSTALLATION.

3.05 PATCHING

THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY UPON REMOVAL OF THE FORMS TO OBSERVE CONCRETE SURFACE CONDITIONS. IMPERFECTIONS SHALL BE PATCHED ACCORDING TO THE ENGINEER'S DIRECTION.

3.06 DEFECTIVE CONCRETE

THE CONTRACTOR SHALL MODIFY OR REPLACE CONCRETE NOT CONFORMING TO REQUIRED LEVELS AND LINES, DETAILS, AND ELEVATIONS AS SPECIFIED IN ACI 301.

3.07 PROTECTION

A. IMMEDIATELY AFTER PLACEMENT, THE CONTRACTOR SHALL PROTECT THE CONCRETE FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES, AND MECHANICAL INJURY. FINISHED WORK SHALL BE PROTECTED.

B. CONCRETE SHALL BE MAINTAINED WITH MINIMAL MOISTURE LOSS AT RELATIVELY CONSTANT TEMPERATURE FOR PERIOD NECESSARY FOR HYDRATION OF CEMENT AND HARDENING OF CONCRETE.

C. ALL CONCRETE SHALL BE WATER CURED PER ACCEPTABLE PRACTICES SPECIFIED BY ACI CODE.

METALS

PART 1 - GENERAL

1.01 WORK INCLUDED

A. THE WORK CONSISTS OF THE FABRICATION AND INSTALLATION OF ALL MATERIALS TO BE FURNISHED, AND WITHOUT LIMITING THE GENERALITY THEREOF, INCLUDES ALL EQUIPMENT, LABOR AND SERVICES REQUIRED FOR ALL STRUCTURAL STEEL WORK, INCLUDING ALL ITEMS INCIDENTAL THERETO AS SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS. INCLUDING:
1. STEEL FRAMING INCLUDING BEAMS, ANGLES, CHANNELS AND PLATES.
2. WELDING AND BOLTING OF ATTACHMENTS.

1.02 REFERENCE STANDARDS

A. THE WORK SHALL CONFORM TO THE CODES AND STANDARDS OF THE FOLLOWING AGENCIES AS FURTHER CITED HEREIN:

- 1. ASTM: AMERICAN SOCIETY FOR TESTING AND MATERIALS, AS PUBLISHED IN "COMPILATION OF ASTM STANDARDS IN BUILDING CODES"
2. AWS: AMERICAN WELDING SOCIETY INC., AS PUBLISHED IN "STANDARD D1.1-2008, STRUCTURAL WELDING CODE".
3. AISI: AMERICAN INSTITUTE FOR STEEL CONSTRUCTION, AS PUBLISHED IN "CODE FOR STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
4. AIA/ITA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES.

PART 2 - STRUCTURAL NOTES

ALL STEEL WORK SHALL BE PAINTED OR GALVANIZED IN ACCORDANCE WITH THE DRAWINGS AND VERIZON SPECIFICATIONS UNLESS OTHERWISE NOTED. STRUCTURAL STEEL SHALL BE ASTM A992-50 UNLESS OTHERWISE NOTED ON THE SITE SPECIFIC DRAWINGS. STEEL DESIGN, INSTALLATION AND BOLTING SHALL BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION", MISC. STEEL TO BE A36.

1. DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, AISC/ITA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES.

2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER OF RECORD.

3. DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".

4. STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.

5. STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAN HARDENED WASHERS", UNLESS OTHERWISE NOTED. ALL BOLTS SHALL BE 5/8" DIA TYPE X.

6. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.

7. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-DIP (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.

8. FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A700. GALVANIZING REPAIR PAINT SHALL HAVE 85 PERCENT ZINC BY WEIGHT, ZRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT LESS THAN 2 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.

9. CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AWS AND D11, WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE U2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 13TH EDITION.

10. INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION, ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.

11. UNISTRUTS SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP, WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION FOR EXTERNAL USE APPLICATIONS.

12. UNLESS OTHERWISE NOTED, EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF 1/2" DIAMETER STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS, AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND AN EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE Hilti-HIT HY-20 AND OR HY-150 SYSTEMS (AS SPECIFIED ON DWG), OR ENGINEERS APPROVED EQUAL WITH 4-1/4" MIN. EMBEDMENT DEPTH.

13. UNLESS OTHERWISE NOTED, EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWIK BOLT II OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE THREE AND ONE HALF (3 1/2) INCHES.

14. WHERE ROOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE RELATED WORK WITH THE BUILDING OWNER AND THE EXISTING ROOF INSTALLER. WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO NOT VOID THE EXISTING ROOF WARRANTY.

WOOD

- 1. PLYWOOD SHALL MEET THE RECOMMENDATIONS OF THE A.P.A.
2. ALL LUMBER SHALL BE SPRUCE-PIKE-FIR (SPF) #1 GRADE.
3. ALL LUMBER SHALL BE PRESURE TREATED WITH PRESERVATIVES. ALLOWABLE BENDING STRESS: fb min = 1,000 PSI. MODULUS OF ELASTICITY: 1.6x10^6 PSI
4. ALL JOIST HANGERS, CLIP ANGLES AND PLATES TO BE HEAVY GALVANIZED AS MANUFACTURED BY SIMPSON CO., OR APPROVED EQUAL.
5. ALL LUMBER TO BE MANUFACTURED BY BOSE CASCADE OR APPROVED EQUAL.

SPECIAL CONSTRUCTION ANTENNA INSTALLATION

PART 1 - GENERAL

1.01 WORK INCLUDED

A. ANTENNAS, FIBER AND COAXIAL CABLES SHALL BE AS SPECIFIED ON THESE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND PROPERTY. STRICT ADHERENCE TO OSHA STANDARDS IS MANDATED.

B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND VERIZON SPECIFICATIONS.

C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.

D. INSTALL FIBER, COAXIAL CABLES AND TERMINATION'S BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY POINT LOCATION UNLESS OTHERWISE STATED.

E. ANTENNA MOUNTS AND HARDWARE SHALL BE PAINTED TO MATCH EXISTING CONDITIONS.

F. ANTENNA AND COAXIAL CABLE GROUNDING:
1. ALL EXTERIOR #6 GREEN GROUND WIRE "DMSY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED.
2. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS).

ROOF WORK

1. IF ROOF WORK IS REQUIRED, CAUTION SHALL BE EXERCISED WHILE WORKING ON THE ROOF. EVERY EFFORT MUST BE MADE TO PRESERVE THE ROOF WARRANTY.

2. WHEN ROOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE THE WORK WITH THE BUILDING OWNER AND THE EXISTING ROOFING INSTALLER.

RELATED WORK (ROOF TOP SITES)

FURNISH THE FOLLOWING WORK AS SPECIFIED UNDER CONSTRUCTION DOCUMENTS, BUT COORDINATE WITH OTHER TRADES PRIOR TO BID:

- 1. FLASHING OF OPENING INTO OUTSIDE WALLS
2. SEALING AND CAULKING ALL OPENINGS
3. PAINTING
4. CUTTING AND PATCHING

1.03 - REQUIREMENTS OR REGULATOR AGENCIES

A. FURNISH U.L. LISTED EQUIPMENT WHERE SUCH LABEL IS AVAILABLE. INSTALL IN CONFORMANCE WITH U.L. STANDARDS WHERE APPLICABLE.

B. INSTALL ANTENNA, ANTENNA CABLES, GROUNDING SYSTEM IN ACCORDANCE WITH DRAWINGS AND SPECIFICATION IN EFFECT AT PROJECT LOCATION AND RECOMMENDATIONS OF STATE AND LOCAL BUILDING CODES, AND SPECIAL CODES HAVING JURISDICTION OVER SPECIFIC PORTIONS OF WORK. THIS WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

- 1. AIA/ITA - ELECTRONIC INDUSTRIES ASSOCIATION RS - 222. STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES.
2. FAA - FEDERAL AVIATION ADMINISTRATION ADVISORY CIRCULAR AC 70/7460-1H, OBSTRUCTION MARKING AND LIGHTING.
3. FCC - FEDERAL COMMUNICATIONS COMMISSION RULES AND REGULATIONS FORM 715, OBSTRUCTION MARKING AND LIGHTING SPECIFICATION FOR ANTENNA STRUCTURES AND FORM 715A, HIGH INTENSITY OBSTRUCTION LIGHTING SPECIFICATIONS FOR ANTENNA STRUCTURES.
4. NEC - NATIONAL ELECTRICAL CODE
5. UL - UNDERWRITER'S LABORATORIES APPROVED ELECTRICAL PRODUCTS.
6. IN ALL CASES, PART 77 OF THE FAA RULES AND PARTS 17 AND 22 OF THE FCC RULES ARE APPLICABLE AND IN THE EVENT OF CONFLICT, SUPERSEDE ANY OTHER STANDARDS OR SPECIFICATIONS.

IF ASSUMED EXISTING CONDITION DIFFERS, ENGINEER MUST BE INFORMED OF ACTUAL FIELD CONDITION. SUBCONTRACTOR TO VERIFY EXISTING DIMENSIONS PRIOR TO STEEL FABRICATION.

ALL COAX SHALL BE PLENUM RATED.

verizon wireless logo and address: 400 FRIBERG PARKWAY WESTPORTHOUGH, MA 01881 (508) 553-5330 TEL.

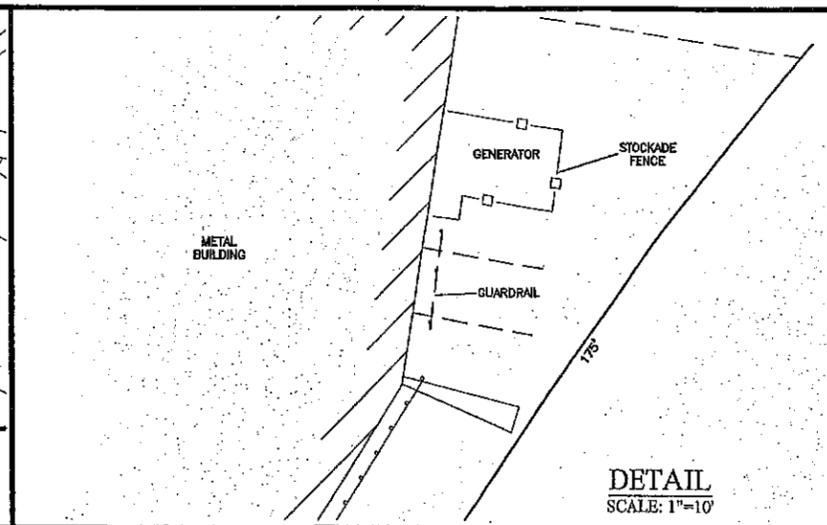
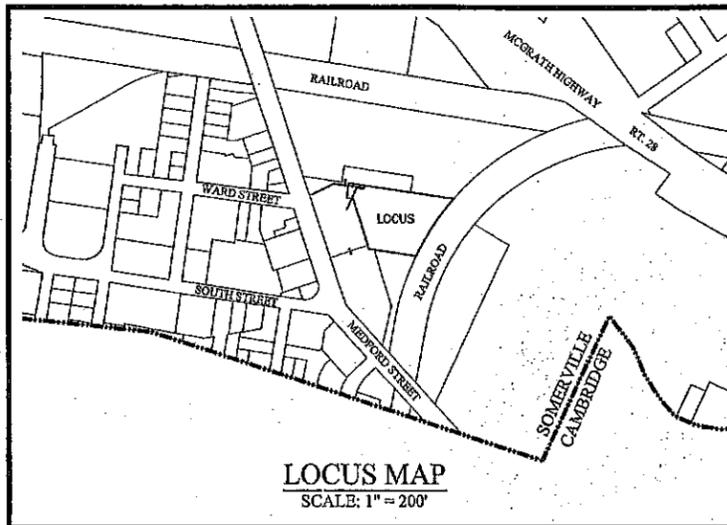
Hudson Design Group logo and address: 1600 CHICAGO STREET BUILDING 20 NORTH, SUITE 2070 N.ANDOVER, MA 01845 TEL: (978) 537-5555 FAX: (978) 537-5555

GENERAL NOTES table with columns: REV, DATE, DESCRIPTION, ISSUED FOR REVIEW, ISSUED FOR CONSTRUCTION. Includes entries for 7/24/14 and 9/07/14.

REGISTERED ENGINEER stamp for Brian E. O'Donnell, State of Massachusetts, No. 4161, Exp. 12/31/14.

SOMERVILLE-CAMBRIDGE 39R MEDFORD STREET SOMERVILLE, MA 02143

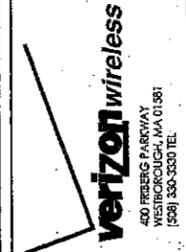
GN-1



CITY OF SOMERVILLE
PLANNING BOARD

SITE SPECIFIC NOTES:

- FIELD SURVEY DATE: 07-10-2014
- HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83)
- VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
- OWNER: TRUST SURE LOCK BUILDING
C/O SIMI
PO BOX 198
STILLWATER, MN 55082
- SITE NAME: SOMERVILLE-CAMBRIDGE
- SITE ADDRESS: 39R MEDFORD STREET
SOMERVILLE, MA 02143
- APPLICANT: BELL ATLANTIC MOBILE OF MASSACHUSETTS CORPORATION, LTD.,
d/b/a VERIZON WIRELESS,
400 FRIEBERG PARKWAY,
WESTBOROUGH, MA 01581
- JURISDICTION: CITY OF SOMERVILLE
MIDDLESEX COUNTY
- JAX ID: 113-B-2
- DEED REFERENCE: BOOK 22639 PAGE 139
- PLAN REFERENCE: PLAN 1584 OF 1980
- THE HORIZONTAL DATUM AND VERTICAL DATUM WERE DERIVED FROM A DUAL FREQUENCY GPS SURVEY.
- ALL UNDERGROUND UTILITY INFORMATION PRESENTED HEREON WAS DETERMINED FROM SURFACE EVIDENCE AND PLANS OF RECORD. ALL UNDERGROUND UTILITIES SHOULD BE LOCATED IN THE FIELD PRIOR TO COMMENCEMENT OF ALL SITE WORK. CALL DISSAFE 1-800-322-4844 A MINIMUM OF 72 HOURS PRIOR TO PLANNED ACTIVITY.
- ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, THE MAJOR IMPROVEMENTS ON THIS PROPERTY ARE LOCATED IN AN AREA DESIGNATED AS ZONE X (UNSHADED), AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
COMMUNITY PANEL NO. 25017C0577E
EFFECTIVE DATE: 06-04-2010
- FIELD SURVEY BY EDM TOTAL STATION.
- THIS IS NOT A BOUNDARY SURVEY. THE PURPOSE OF THIS PLAN IS TO REPRODUCE THE PROPERTY LINES THAT FALL NEAR THE PROJECT AREA. THE LINES FOR THE RAILROAD ARE BASED UPON PLAN 1906 OF 1961 AND OFFSETTING THE WIDTH OF THE RAILROAD 5 FEET (82.5'). ALL OTHER LINES ARE BASED ON MONUMENTS FOUND, BUILDING FACES, AND THE ± DISTANCES SHOWN ON VARIOUS PLANS OF THE LOCUS PROPERTY.
- ALL ABUTTING PROPERTY LINES SHOWN ARE APPROXIMATE ONLY.



400 FRIEBERG PARKWAY
WESTBOROUGH, MA 01581
(978) 330-3530 TEL

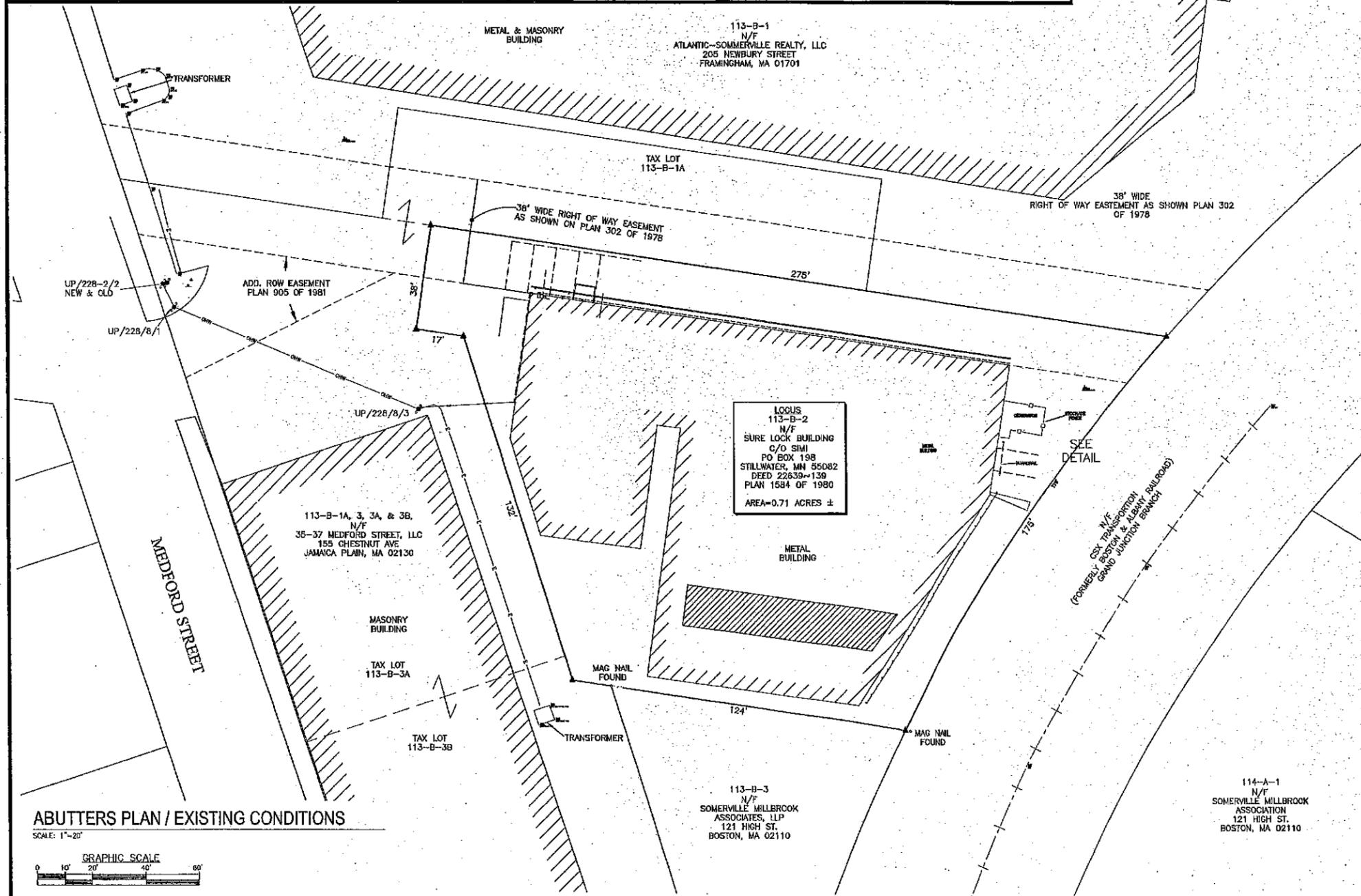


1620 OSGOOD STREET
BUILDING 20 NORTH SUITE 300
N. ANDOVER, MA 01861
TEL: (978) 557-5553
FAX: (978) 559-5588

PREPARED FOR:

ABUTTERS PLAN / EXISTING CONDITIONS

REV	DATE	DESCRIPTION	BY	CHK	APP'D
0	7/16/14	ISSUED FOR REVIEW	JED	BCF	DPS
1	9/01/14	ISSUED FOR CONSTRUCTION	VT	BOF	JK

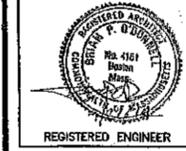


LEGEND

---	PROPERTY LINE - SUBJECT PARCEL
---	PROPERTY LINE - ABUTTERS
---	PROPERTY LINE - EASEMENT
---	ASSESSOR'S LOT LINE
---	PAINTED YELLOW LINE
---	MAG NAIL FOUND

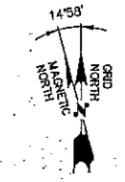
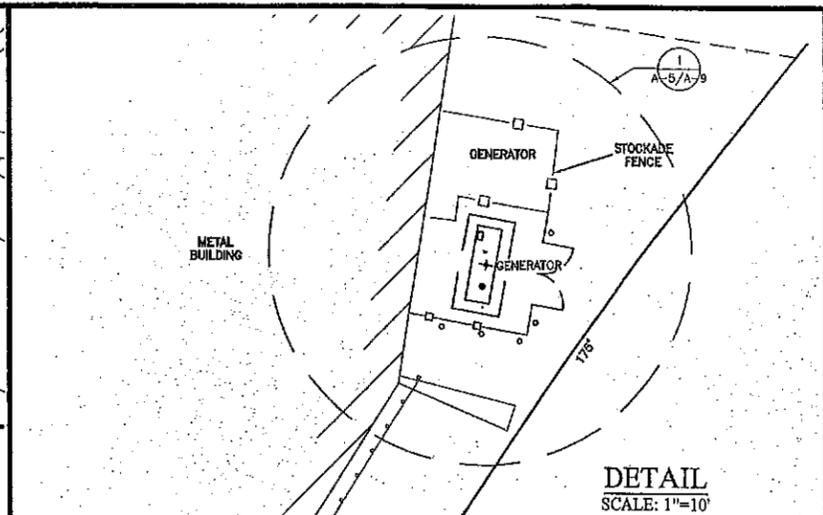
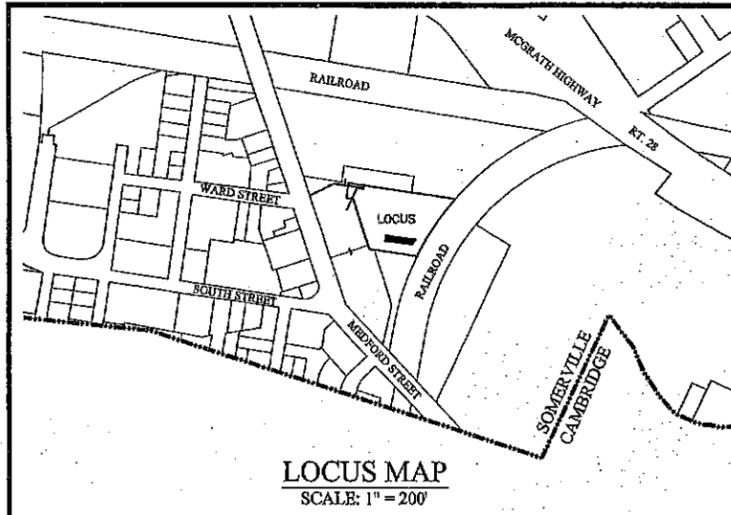
ZONING INFORMATION

JURISDICTION:	CITY OF SOMERVILLE, MA	
ZONING DISTRICT TYPE:	TOD100 (TRANSIT ORIENTED DISTRICTS)	
DIMENSION REQUIREMENTS:	REQUIRED	PROPOSED±
MINIMUM LOT AREA:	25,000 S.F.	-
MINIMUM LOT FRONTAGE:	140'	-
FRONT YARD SETBACK:	0'	-
SIDE YARD SETBACK:	0'	-
REAR YARD SETBACK:	0'	-
MAX. BUILDING HEIGHT:	85'/100(GREEN)	N/A



SOMERVILLE-CAMBRIDGE
39R MEDFORD STREET
SOMERVILLE, MA 02143

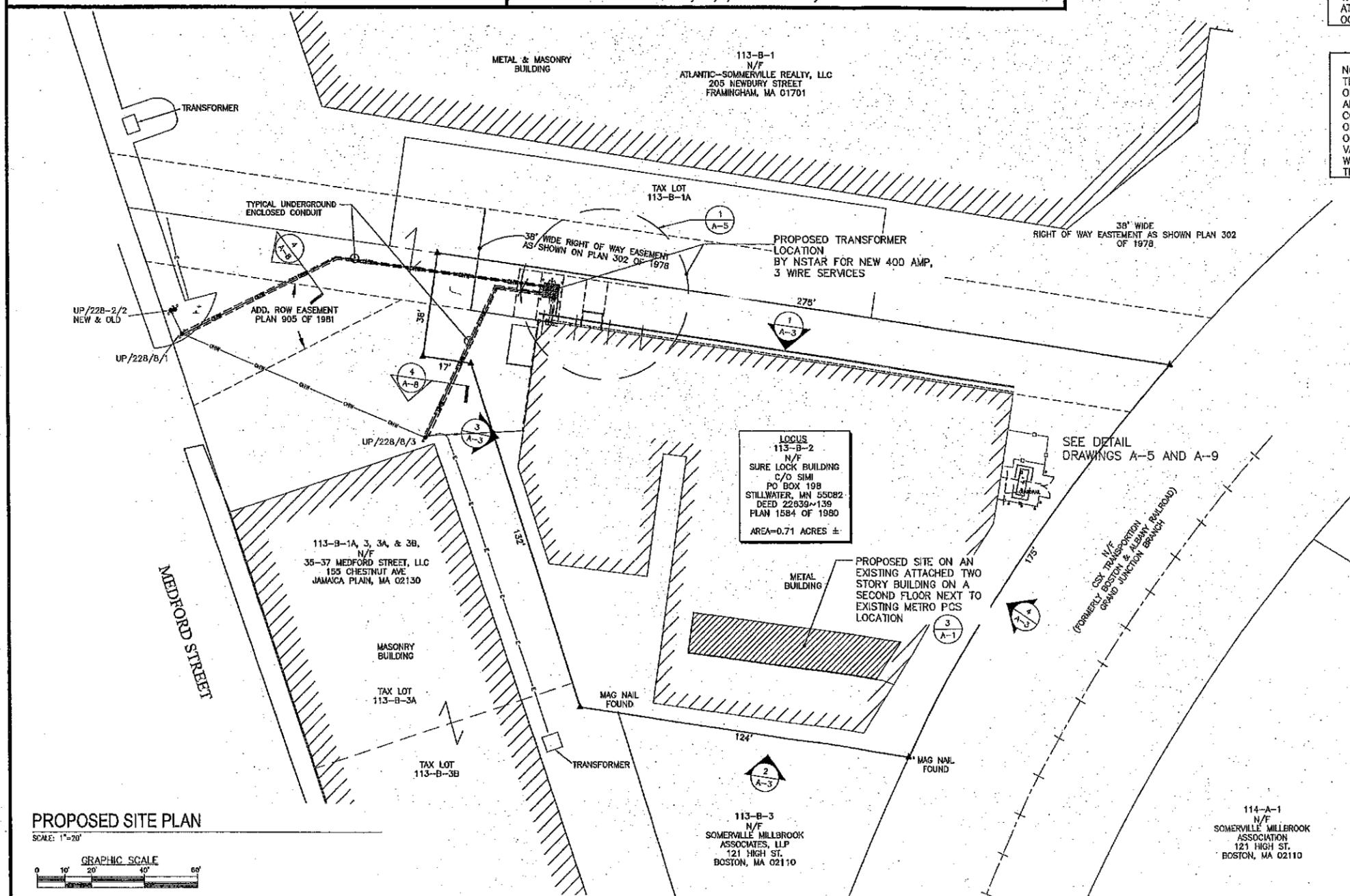
C-1



CITY OF SOMERVILLE
PLANNING BOARD

NOTE:
ANY STRUCTURE CONSTRUCTED ON THE LOT SHALL BE SUBJECT TO AN IMPACT FEE FROM THE CITY OF CAMBRIDGE, MA. SAID FEE SHALL BE CALCULATED AT THE TIME OF BUILDING PERMIT APPLICATION AND DUE AT THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

NOTE:
THE ZONING ORDINANCE AND SITE PLAN REVIEW REGULATIONS OF THE CITY OF CAMBRIDGE, MA ARE A PART OF THIS PLAT, AND APPROVAL OF THIS PLAT IS CONTINGENT UPON COMPLETION OF ALL OF THE REQUIREMENTS OF SAID ZONING ORDINANCE AND SITE PLAN REVIEW REGULATIONS, EXCEPTING ONLY ANY WAIVERS GRANTED BY THE PLANNING BOARD, OR VARIANCES GRANTED BY THE ZONING BOARD OF ADJUSTMENT, WHICH MAY BE ACKNOWLEDGED IN NOTES APPEARING ON THIS PLAT.



LEGEND

---	PROPERTY LINE - SUBJECT PARCEL
---	PROPERTY LINE - ABUTTERS
---	PROPERTY LINE - EASEMENT
---	ASSESSOR'S LOT LINE
---	PAINTED YELLOW LINE
•	MAG NAIL FOUND

ZONING INFORMATION

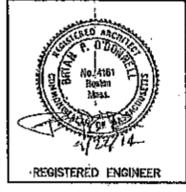
JURISDICTION: CITY OF SOMERVILLE, MA		
ZONING DISTRICT TYPE: TOD100 (TRANSIT ORIENTED DISTRICTS)		
DIMENSION REQUIREMENTS:	REQUIRED	PROPOSED±
MINIMUM LOT AREA:	25,000 S.F.	--
MINIMUM LOT FRONTAGE:	140'	--
FRONT YARD SETBACK:	0'	--
SIDE YARD SETBACK:	0'	--
REAR YARD SETBACK:	0'	--
MAX. BUILDING HEIGHT:	85'/100(GREEN)	N/A

PREPARED FOR:
verizon wireless
400 FRIBERG PARKWAY
SOMERVILLE, MA 01981
(603) 320-3300 TEL.

PREPARED BY:
Hudson Design Group
140 OSGOOD STREET
BUILDING 20 NORTH, SUITE 500
N. ANDOVER, MA 01845
TEL: (978) 527-5553
FAX: (978) 354-5586

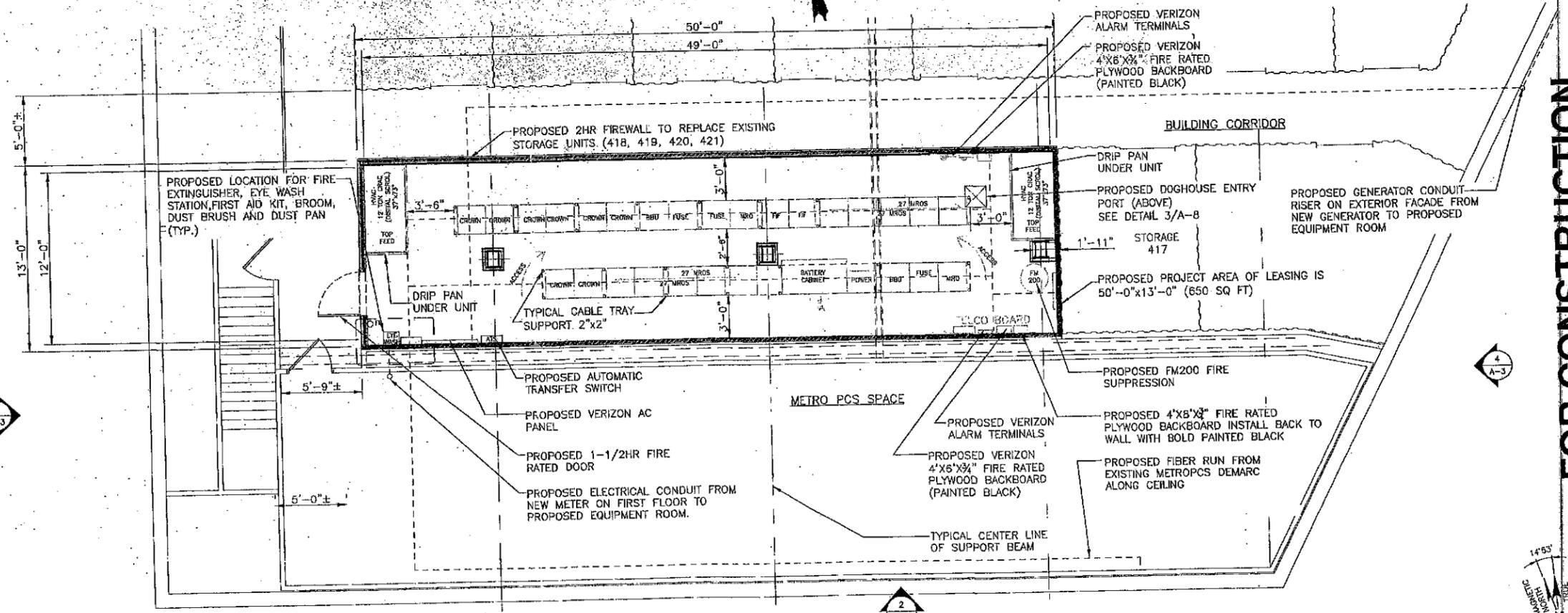
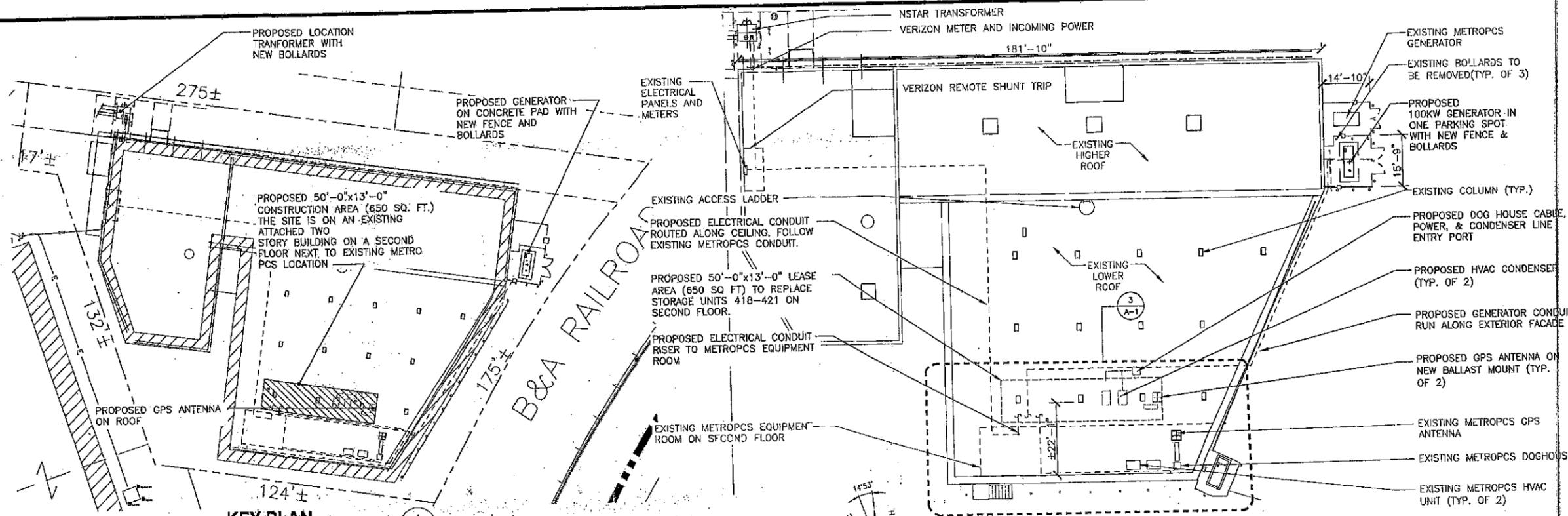
PROPOSED SITE PLAN

REV	DATE	DESCRIPTION	BY	CHK	APP'D
0	7/24/14	ISSUED FOR REVIEW	JJ	BO	JK
1	9/07/14	ISSUED FOR CONSTRUCTION	VT	BOP	JK



SOMERVILLE-CAMBRIDGE
39R MEDFORD STREET
SOMERVILLE, MA 02143

C-2



FOR CONSTRUCTION

verizon wireless
400 FRIBERG PARKWAY
WESTBOROUGH, MA 01581
(508) 350-3320 TEL

PREPARED FOR:

Hudson Design Group, Inc.
1000 CROSBY STREET, SUITE 500
ANDOVER, MA 01845
TEL: (978) 557-5533
FAX: (978) 334-5586

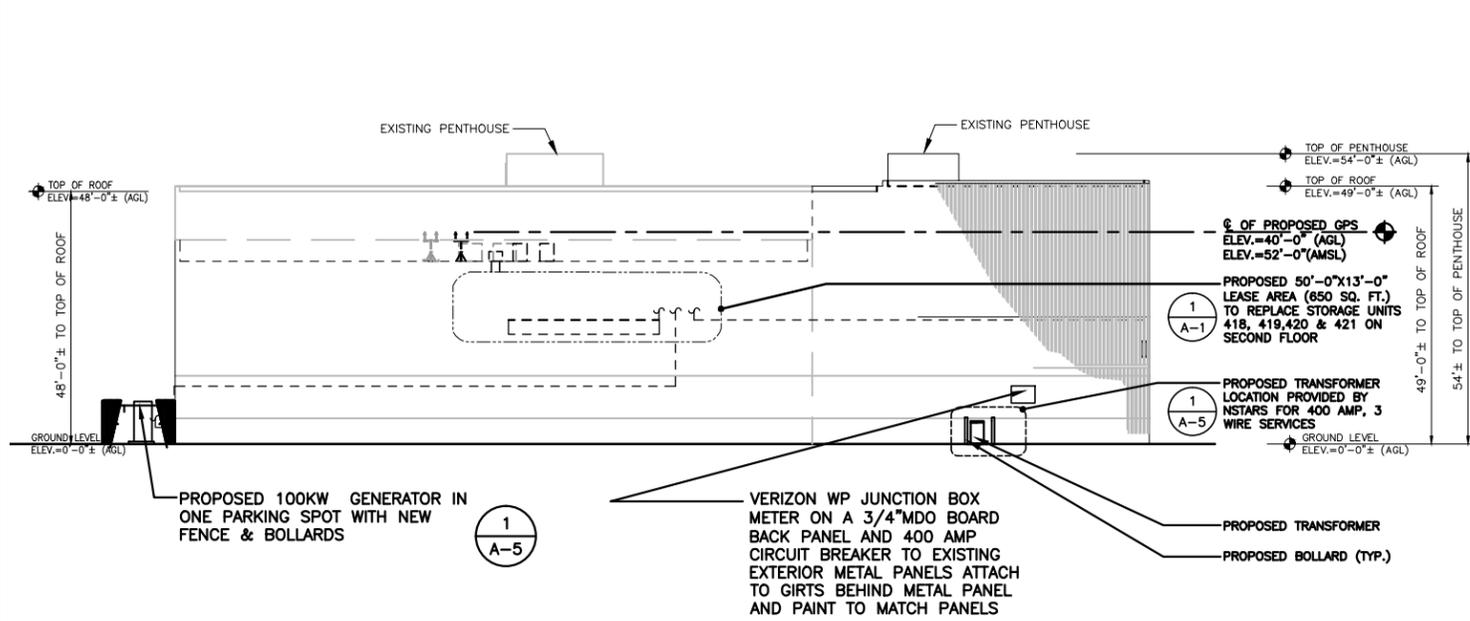
PREPARED BY:

PROPOSED EQUIPMENT FLOOR PLAN			
REV	DATE	DESCRIPTION	CHK APP'D
1	7/24/14	ISSUED FOR REVIEW	JK
2	9/01/14	ISSUED FOR CONSTRUCTION	JK

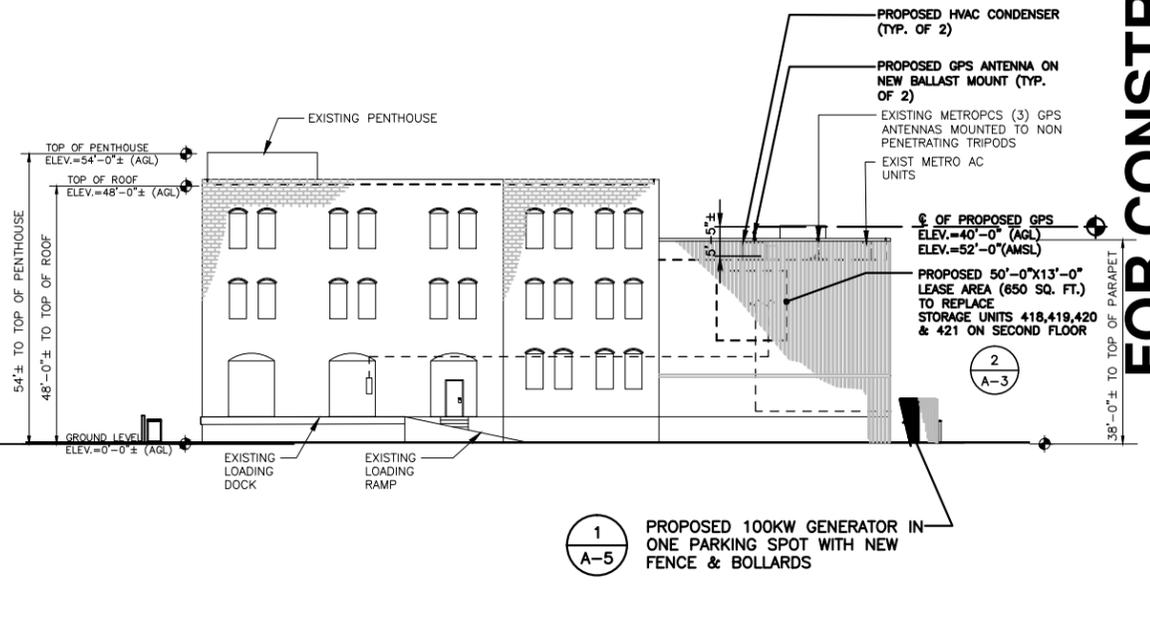
REGISTERED ENGINEER
BRYAN T. O'DONNELL
No. 4181
Professional Seal
STATE OF MASSACHUSETTS
EXPIRES 12/31/2017

SOMERVILLE-CAMBRIDGE
398 MEDFORD STREET
SOMERVILLE, MA 02143

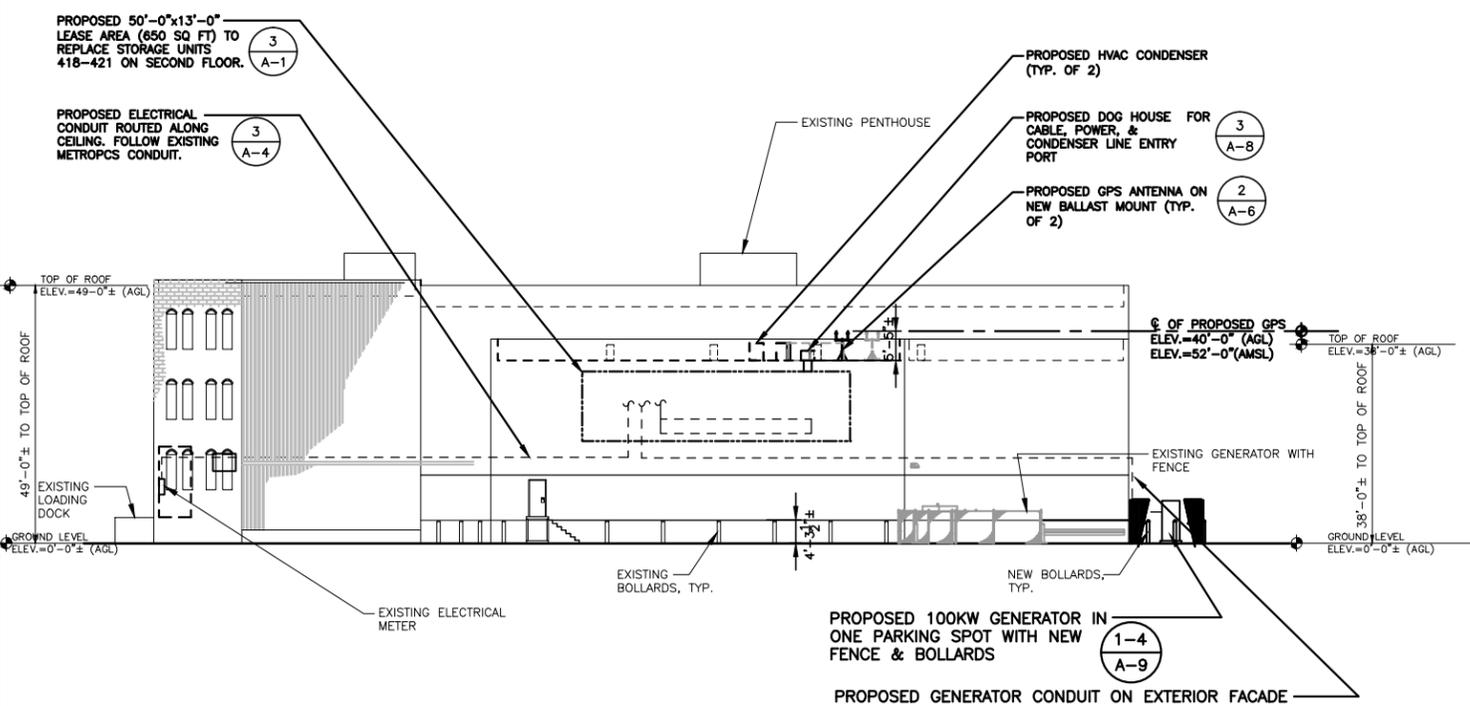
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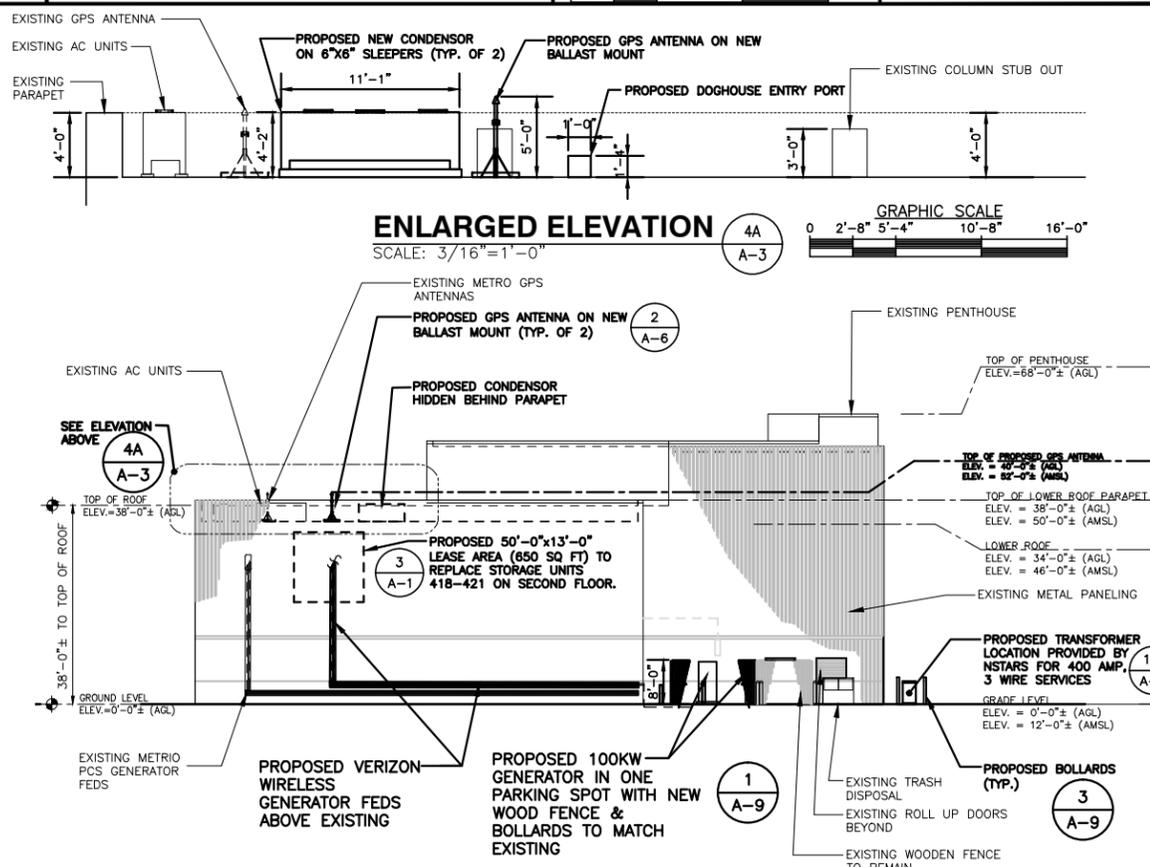
1 NORTH ELEVATION
 GRAPHIC SCALE 0 8 16 32 48 FEET
 SCALE: 1/16" = 1'-0"



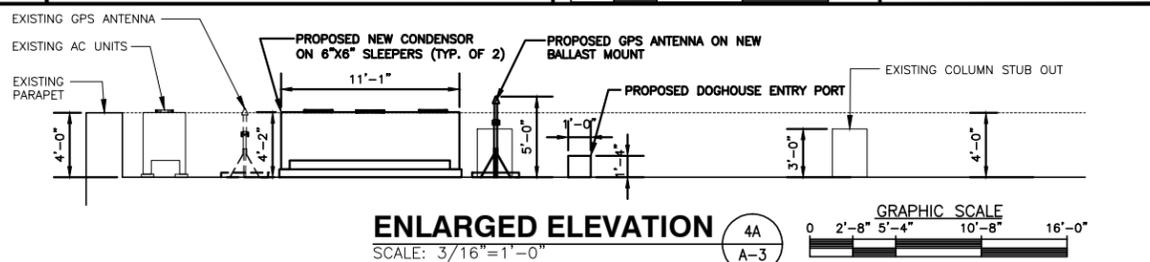
3 WEST ELEVATION
 GRAPHIC SCALE 0 8 16 32 48 FEET
 SCALE: 1/16" = 1'-0"



2 SOUTH ELEVATION
 GRAPHIC SCALE 0 8 16 32 48 FEET
 SCALE: 1/16" = 1'-0"



4 EAST ELEVATION
 GRAPHIC SCALE 0 8 16 32 48 FEET
 SCALE: 1/16" = 1'-0"



ENLARGED ELEVATION
 SCALE: 3/16" = 1'-0"
 GRAPHIC SCALE 0 2'-8" 5'-4" 10'-8" 16'-0"

FOR CONSTRUCTION



PREPARED FOR:
 400 FRIBERG PARKWAY
 WESTBOROUGH, MA 01581
 (508) 330-3330 TEL



PREPARED BY:
 1600 OSGOOD STREET
 BUILDING 20 NORTH, SUITE 3090
 N. ANDOVER, MA 01845
 TEL: (978) 557-5553
 FAX: (978) 356-5586

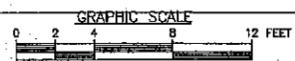
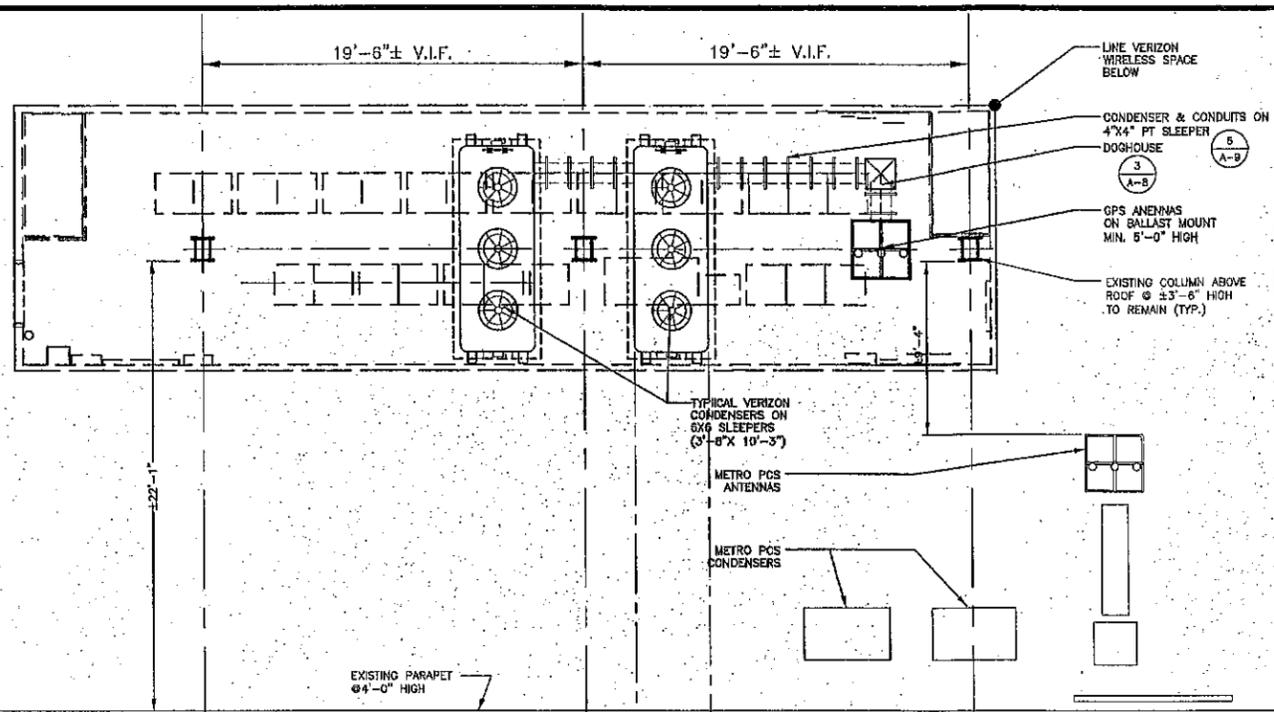
EXTERIOR ELEVATIONS

REV	DATE	DESCRIPTION	BY	CHK	APP'D
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1	9/01/14	ISSUED FOR CONSTRUCTION			

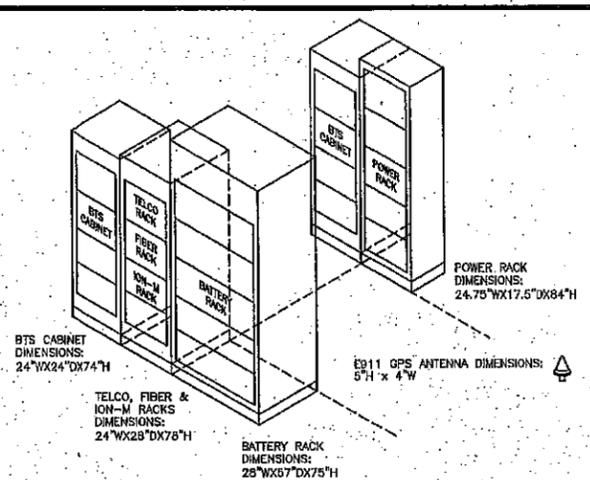
REGISTERED ENGINEER

SOMERVILLE-CAMBRIDGE
 39R MEDFORD STREET
 SOMERVILLE, MA 02143

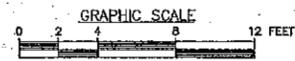
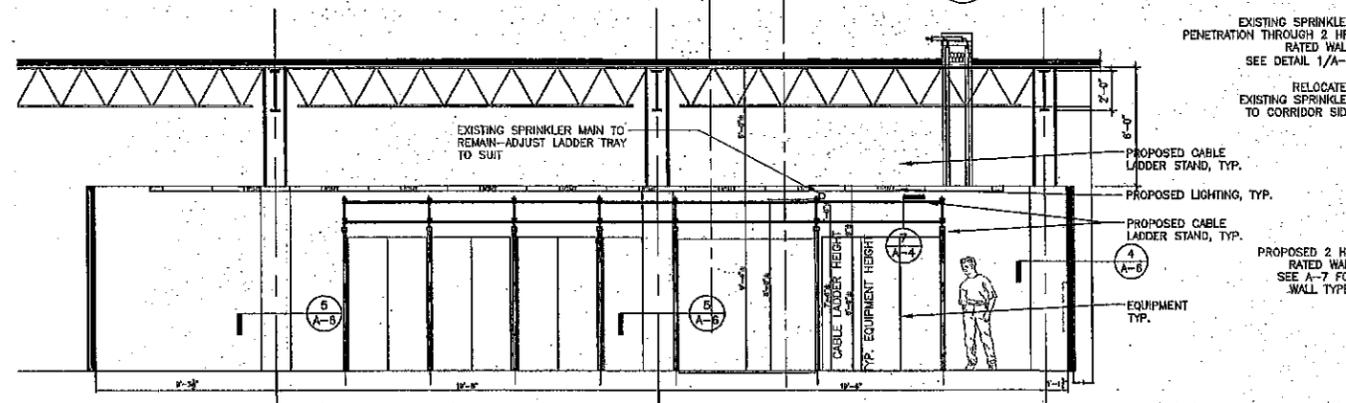
A-3



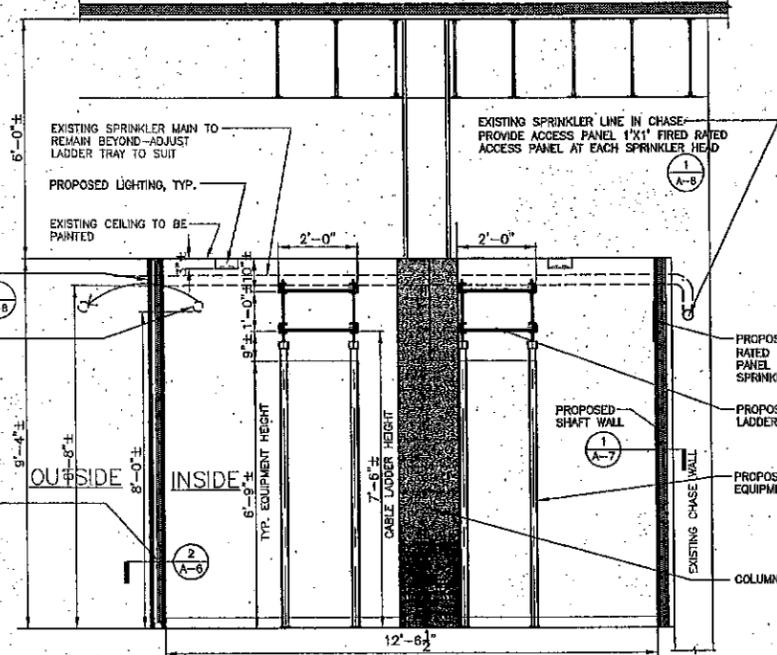
ROOF PLAN
SCALE: 1/4"=1'-0"



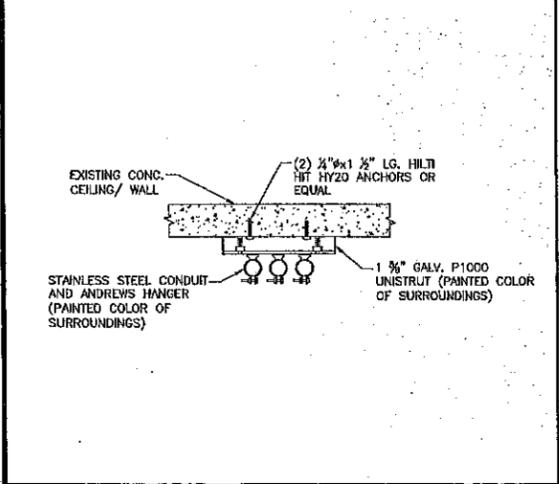
EQUIPMENT ISOMETRIC
SCALE: N.T.S.



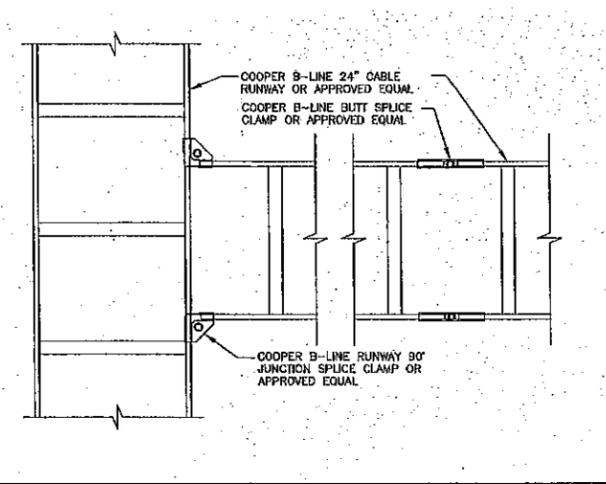
ROOM SECTION
SCALE: 1/4"=1'-0"



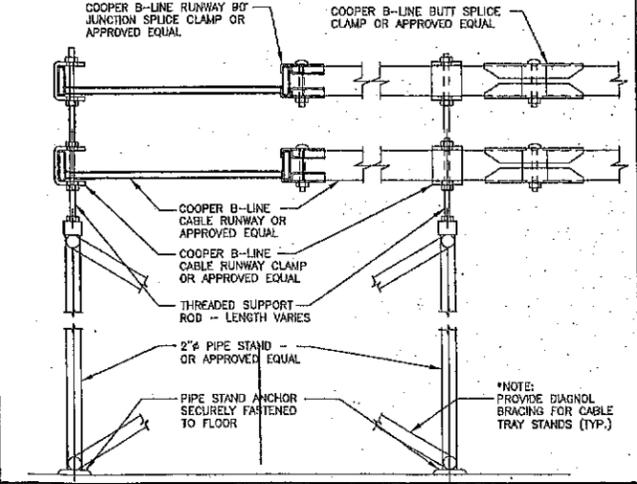
ROOM SECTION
SCALE: 1/2"=1'-0"



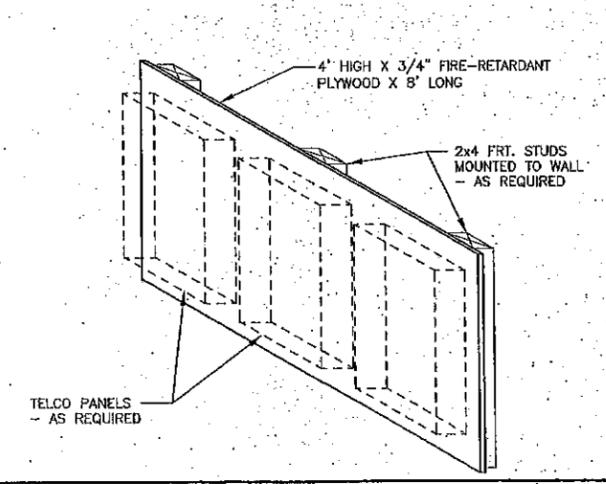
5 INTERIOR CONDUIT RUN SCALE: N.T.S.



6 CABLE LADDER DETAIL SCALE: N.T.S.



7 CABLE LADDER MOUNTING DETAILS SCALE: N.T.S.



8 TELCO BACKBOARD SCALE: N.T.S.

verizon wireless
400 BRISBEG PARKWAY
WESTROCKVILLE, MA 01881
(508) 330-3330 TEL

PREPARED FOR:

Hudson Design Group
160 OSCEOLA STREET
BUILDING 20 NORTH SUITE 300
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 552-5556

PREPARED BY:

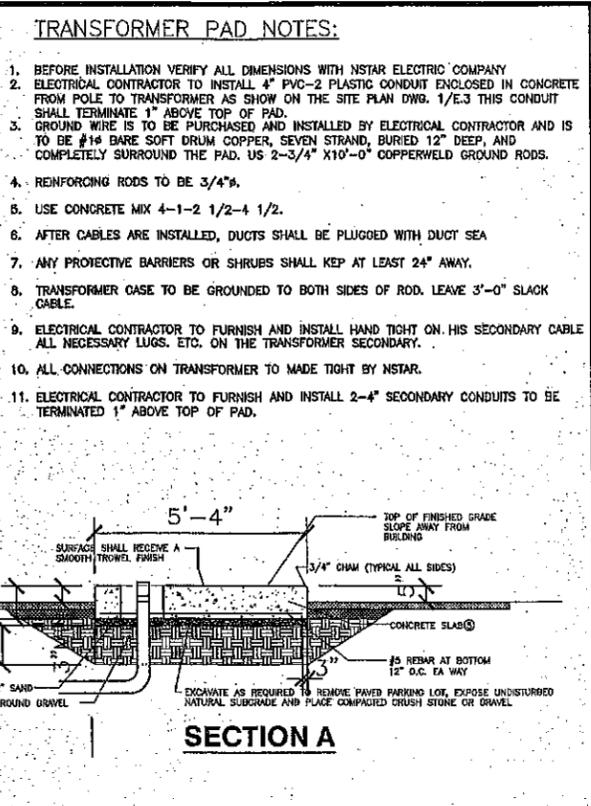
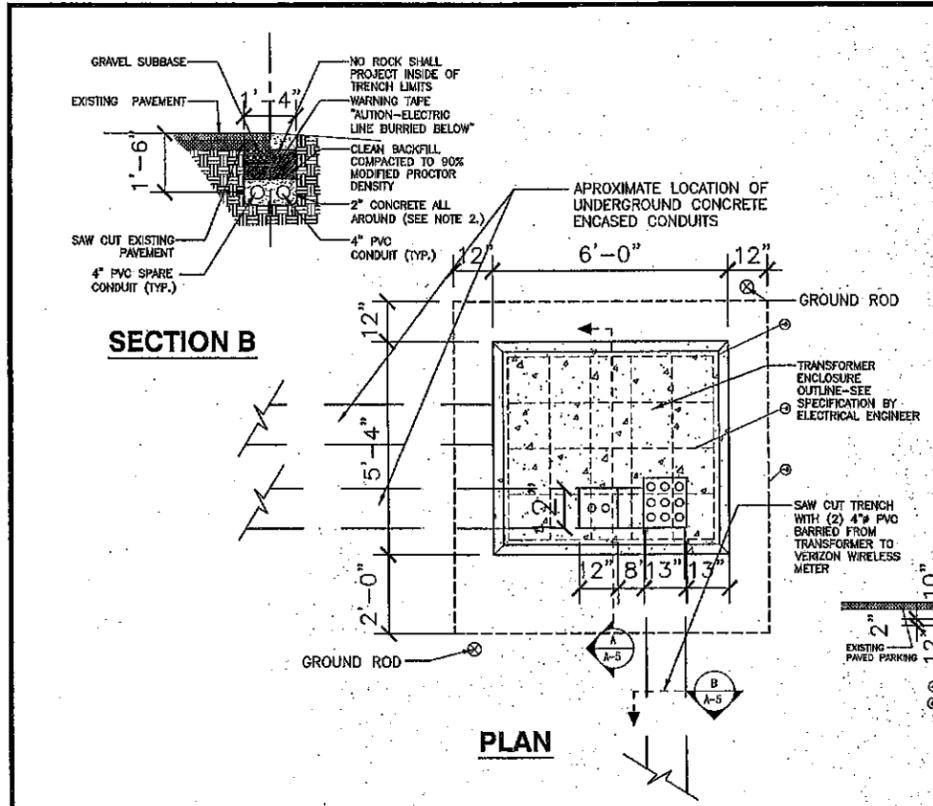
EQUIPMENT & LADDER PLANS, DETAILS

REV	DATE	DESCRIPTION	BY	CHK	APP'D
1	7/24/14	ISSUED FOR REVIEW	VT	BJP	JX
1	9/01/14	ISSUED FOR CONSTRUCTION			

REGISTERED ENGINEER
BRIAN E. O'BRIEN
No. 418
State of Massachusetts
Professional Seal

SOMERVILLE-CAMBRIDGE
38R MEDFORD STREET
SOMERVILLE, MA 02143

A-4



- TRANSFORMER PAD NOTES:**
- BEFORE INSTALLATION VERIFY ALL DIMENSIONS WITH NSTAR ELECTRIC COMPANY ELECTRICAL CONTRACTOR TO INSTALL 4" PVC-2 PLASTIC CONDUIT ENCLOSED IN CONCRETE FROM POLE TO TRANSFORMER AS SHOW ON THE SITE PLAN DWG. 1/E.3 THIS CONDUIT SHALL TERMINATE 1" ABOVE TOP OF PAD.
 - GROUND WIRE IS TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR AND IS TO BE #14 BARE SOFT DRUM COPPER, SEVEN STRAND, BURIED 12" DEEP, AND COMPLETELY SURROUND THE PAD. US 2-3/4" X10'-0" COPPERWELD GROUND RODS.
 - REINFORCING RODS TO BE 3/4"φ.
 - USE CONCRETE MIX 4-1-2 1/2-4 1/2.
 - AFTER CABLES ARE INSTALLED, DUCTS SHALL BE PLUGGED WITH DUCT SEA.
 - ANY PROJECTIVE BARRIERS OR SHRUBS SHALL KEEP AT LEAST 24" AWAY.
 - TRANSFORMER CASE TO BE GROUNDED TO BOTH SIDES OF ROD. LEAVE 3'-0" SLACK CABLE.
 - ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL HAND TIGHT ON HIS SECONDARY CABLE ALL NECESSARY LUGS, ETC. ON THE TRANSFORMER SECONDARY.
 - ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL 2-4" SECONDARY CONDUITS TO BE TERMINATED 1" ABOVE TOP OF PAD.

- GENERAL CONSTRUCTION NOTES:**
- ALL DIMENSIONS SHOWN THUS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WHICH EFFECT THE CONTRACTORS WORK. CONTRACTOR TO VERIFY ALL DISCREPANCIES WITH OWNER PRIOR TO CONSTRUCTION.
 - THE CONTRACTOR AND OR HIS SUB CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTRY OR LOCAL GOVERNMENT AUTHORITY.
 - CABLE CONNECTORS AND EQUIPMENT SHALL BE PROVIDED BY THE OWNER AND IS NOT INCLUDED IN THESE CONSTRUCTION DOCUMENTS. ALL OTHER HARDWARE TO BE PROVIDED BY THE CONTRACTOR. CONNECTION HARDWARE SHALL BE STAINLESS STEEL.
 - COORDINATION, LAYOUT, AND FURNISHING OF CONDUIT, CABLE AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 - ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF UTILITY COMPANY ENGINEERING.
 - ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.

ABBREVIATIONS

ADJ	ADJUSTABLE	MAX	MAXIMUM
APPROX	APPROXIMATE	MECH	MECHANICAL
BTS	BASE TRANSMISSION STATION	MFR	MANUFACTURER
C	CONDUIT	MGB	MASTER GROUND BAR
CMU	CONCRETE MASONRY UNIT	MIN	MINIMUM
CONC	CONCRETE	MTL	METAL
CONT	CONTINUOUS	NIC	NOT IN CONTRACT
CJ	CONSTRUCTION JOINT	NTS	NOT TO SCALE
DIA	DIAMETER	OC	ON CENTER
DWG	DRAWING	OPP	OPPOSITE
EGB	EQUIPMENT GROUND BAR	SF	SQUARE FOOT
EA	EACH	SHT	SHEET
ELEC	ELECTRICAL	SIM	SIMILAR
EL	ELEVATION	STL	STEEL
EQ	EQUAL	TOC	TOP OF CONCRETE
EQUIP	EQUIPMENT	TOM	TOP OF MASONRY
EX	EXISTING	TYP	TYPICAL
EXT	EXTERIOR	VF	VERIFY IN FIELD
FF	FINISHED FLOOR	LG	LONG
FG	FINISHED GRADE	W/WF	WELDED WIRE FABRIC
GA	GAUGE	W/	WITH
GALV	GALVANIZED	LNA	LOW NOISE AMPLIFIER
GC	GENERAL CONTRACTOR	PL	PLATE
GWB	GYPSON WALLBOARD	&	AND
UON	UNLESS OTHERWISE NOTED	@	AT
PCS	PERSONAL COMMUNICATIONS	RB	RESILIENT BASE
SERV.	SERVICES	VCT	VINYL COMPOSITION TILE

PREPARED FOR:

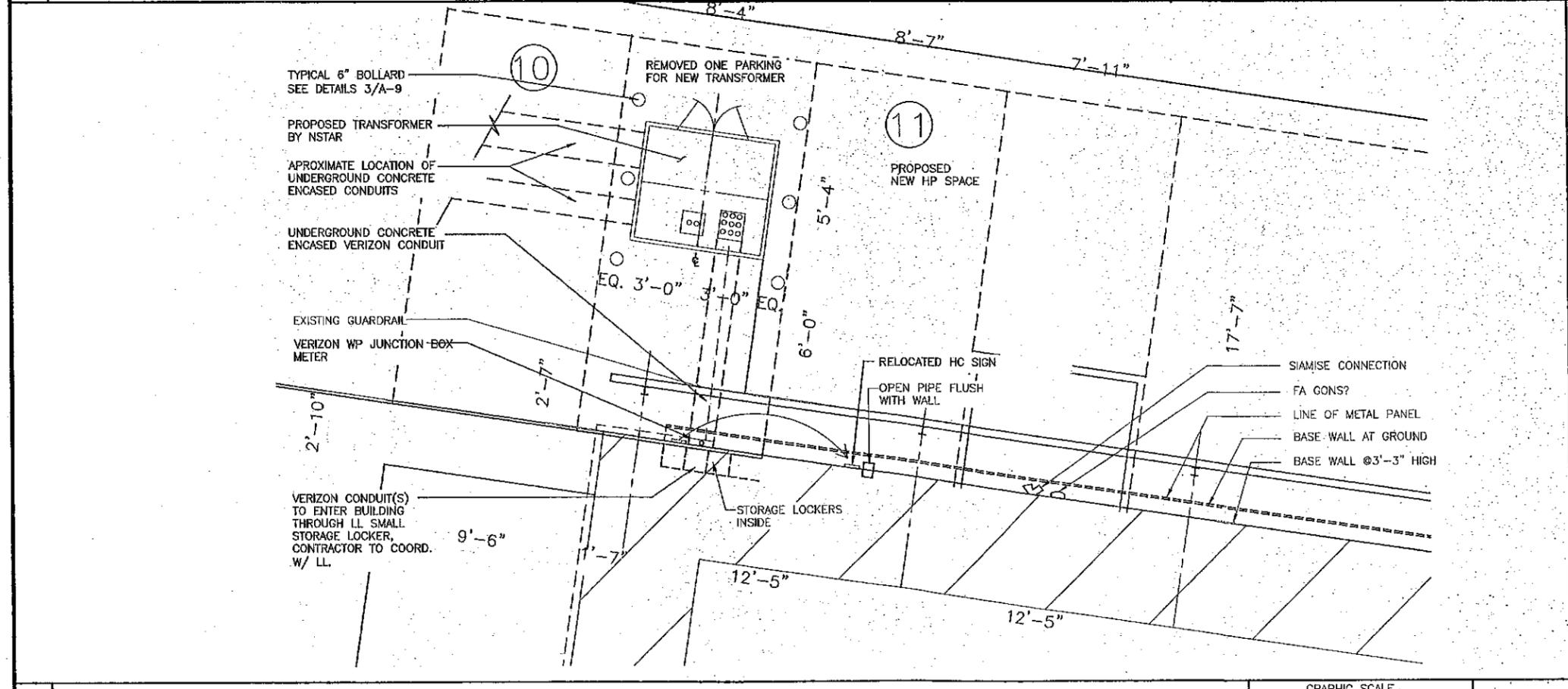
400 RIVERBANK PARKWAY
WESTBOROUGH, MA 01581
(508) 330-3300 TEL

PREPARED BY:

1600 OSCEOLA STREET
BUILDING 20 NORTH, SUITE 3070
N. ANDOVER, MA 01845
TEL: (978) 557-5553
FAX: (978) 556-5556

2 TRANSFORMER PLAN & SECTIONS SCALE: N.T.S.

2 GENERAL CONSTRUCTION NOTES



SYMBOLS AND MATERIALS

	NEW ANTENNA		GROUT OR PLASTER
	EXISTING ANTENNAS		GWB
	ASPHALT		EXISTING CONSTRUCTION
	NEW ACCESS EASEMENT		CONCRETE
	CONCRETE		EARTH
	ELECTRIC BOX		GRAVEL
	LIGHT POLE		PLYWOOD
	FND. MONUMENT		SAND
	SPOT ELEVATION		WOOD CONT.
	SET POINT		WOOD BLOCKING
	REVISION		STEEL
	GRID REFERENCE		CENTER LINE
	DETAIL REFERENCE		PROPERTY LINE
	ELEVATION		STEPPED FOOTING
	SECTIONS & DETAILS		MATCH LINE
	WALL SECTIONS		WORK POINT
	DOOR TYPES		GROUND WIRE
	EXISTING DOOR TO REMAIN		COAXIAL CABLE
	EXISTING DOOR TO BE REMOVED		CHAIN LINK FENCE
	NEW DOOR & FRAME		EXISTING WALL TO REMAIN
			EXISTING WALL TO BE REMOVED
			NEW 1 HR. FIRE RATED PARTITION
			NEW 2 HR. FIRE RATED PARTITION
			NEW NON-RATED DRYWALL PARTITION
			WORK ITEM NOTE

LEGEND

	PROPERTY LINE - SUBJECT PARCEL
	PROPERTY LINE - ABUTTERS
	ZONING
	ASSESSORS PARCEL I.D. NO.
	EXISTING BUILDINGS

TRANSFORMER PLAN, ELEVATIONS, DETAIL

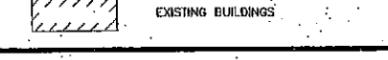
REV	DATE	DESCRIPTION	BY	CHK	APP'D
1	7/24/14	ISSUED FOR REVIEW	VT	BOP	JK
1	9/01/14	ISSUED FOR CONSTRUCTION			

REGISTERED ENGINEER

SOMERVILLE-CAMBRIDGE
39R MEDFORD STREET
SOMERVILLE, MA 02143

A-5

1 TRANSFORMER LOCATION PLAN



ROOM FINISH SCHEDULE										
ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING	CL'S HGT	REMARKS
				1	2	3	4			
102	EQUIPMENT ROOM	VCT	VINYL	GWB/PT-1	GWB/PT-1	GWB/PT-1	GWB/PT-1	EX. PAINTED	9'-4"	

DOOR SCHEDULE	
DOOR NUMBER	1
WIDTH	3/0
HEIGHT	7/0
THICKNESS	1-3/4
DOOR TYPE	A
HARDWARE SET	1
DOOR FINISH	PTD./PT-2
FRAME TYPE	H.M.
FRAME FINISH	PTD./PT-2
U.L. LABEL	B LABEL-(1 1/2 HR)
THRESHOLD	X
GASKET	X
LINTEL	
LOUVER	
1" UNDERCUT	
LOCKSET	X
PRIVACY	
PASSAGE	
LATCH GUARD	X
CLOSER	X
BUTTS	X
B/B BUTTS	
PIVOT HINGES	
SILENCERS	1 SET

HARDWARE SETS:
SET NO. 1

1-1/2 PR. EA. HINGES: STANLEY CB 1900 - 4-1/2", 3 KNUCKLE, STANDARD WEIGHT HINGE, OR EQUAL

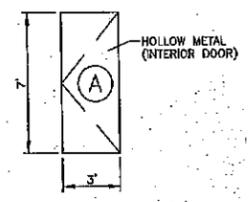
1 EA. LOCKSET: SCHLAGE L6000 SERIES W/O3 LEVER & 2-1/2" ROSE & ANSI F07 FEATURE

1 EA. DOOR CLOSER: LCN 4010N/4110N SERIES, OR EQUAL, ON ACTIVE LEAF

1 EA. GASKET: PEMKO S88, OR EQUAL

1 EA. THRESHOLD: PEMKO 2005A, OR EQUAL

1 EA. DOOR STOP: YES 408/439/435 WALL OR FLOOR STOP, AS APPLICABLE, OR EQUAL



DOOR TYPES
SCALE: N.T.S.

FINISH SCHEDULE KEY:

ACT ACoustICAL CEILING TILE: SEE CONSTRUCTION NOTES, DWG A-1.

CONC CONCRETE

HDWD HARDWOOD

EXIST EXISTING

EXP EXPOSED STRUCTURE

GWB GYPSUM WALL BOARD

PT-1 PAINT, SEMI-GLOSS LATEX: ICI DULEX PAINTS ULTRA-HIDE LATEX SEMI-GLOSS, SUBMIT COLOR SAMPLES TO CM FOR APPROVAL. 1 COAT PRIMER & 2 COATS FINISH MIN.

PT-2 PAINT, SEMI-GLOSS LATEX: ICI DULEX PAINTS ULTRA-HIDE LATEX SEMI-GLOSS, SUBMIT COLOR SAMPLES TO CONSTRUCTION MANAGER FOR APPROVAL. 1 COAT PRIMER & 2 COATS FINISH MIN.

VB VINYL BASE: JOHNSONITE RUBBER COVE WALL BASE, COLOR TCD, 4" HIGH. SUBMIT SAMPLES TO CONSTRUCTION MANAGER FOR APPROVAL - STANDARD COLORS.

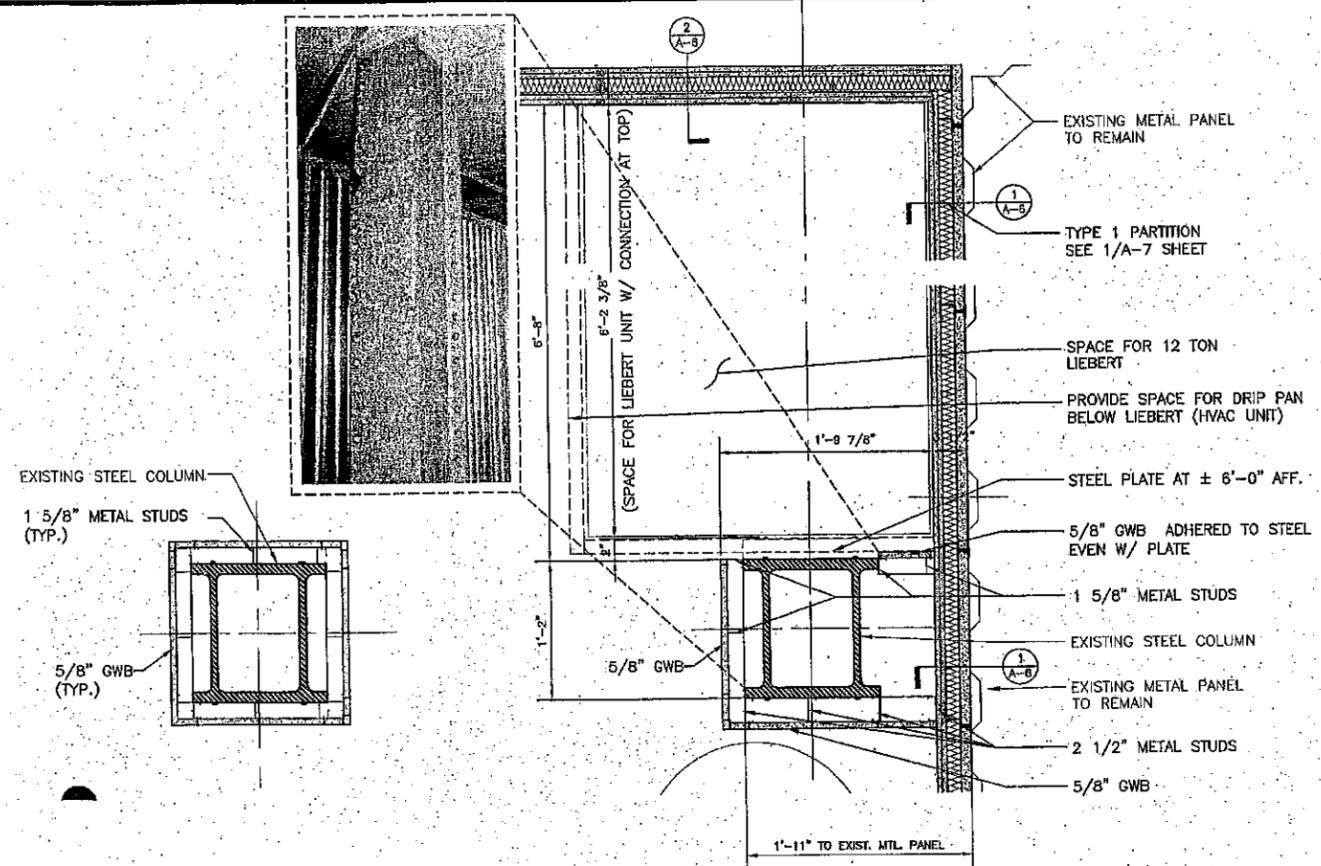
VCT VINYL COMPOSITION TILE: ARMSTRONG WORLD INDUSTRIES, INC. EXCELON IMPERIAL TEXTURE VINYL COMPOSITION TILE, COLOR TRD. SUBMIT SAMPLES TO CONSTRUCTION MANAGER FOR APPROVAL - STANDARD COLORS. 12"x12"x1/8".

FINISH NOTES:

1. PROVIDE & INSTALL MANUFACTURERS MATERIALS SPECIFIED ALONG WITH RECOMMENDED PREPARATION, ACCESSORIES, TRIM, EDGE STRIPS, PRIMERS, ADHESIVES, LEVELING COMPOUNDS, SEALANTS, ETC. AS REQUIRED TO PROVIDE COMPLETE UNIFORM INSTALLATION PER MANUFACTURERS INSTRUCTIONS.
2. LEAVE FINISHED INSTALLATION CLEAN & FREE OF CRACKED, CHIPPED, BROKEN, UNCOVED OR OTHERWISE DEFECTIVE WORK.

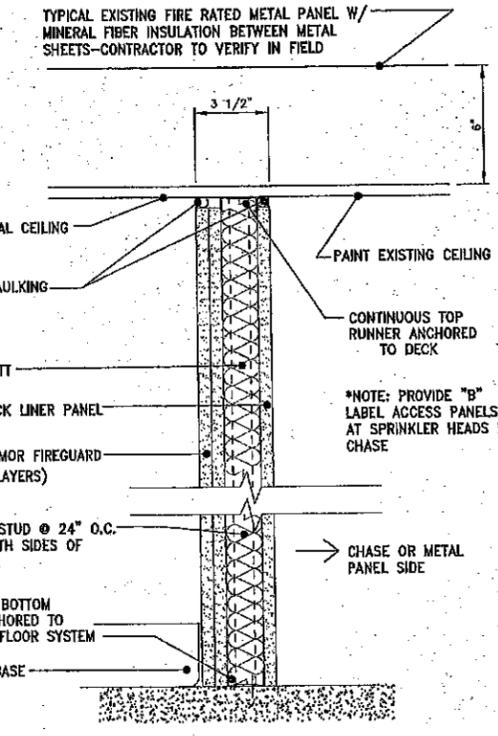
PAINTING NOTES:

1. PROVIDE MANUFACTURER'S BEST QUALITY PAINT MATERIAL OF THE VARIOUS COATING TYPES SPECIFIED. FOLLOW MANUFACTURERS RECOMMENDED SURFACE PREPARATION, PRIMERS & THICKNESSES, FURNISHED IN ORIGINAL MANUFACTURERS CONTAINERS.
2. NEW INTERIOR HOLLOW METAL DOORS, DOOR & WINDOW FRAMES TO BE PAINTED PT-2.
3. REFURBISH EXISTING WALLS THAT ARE TO BE PAINTED AS REQUIRED TO ACHIEVE LIKE-NEW APPEARANCE.

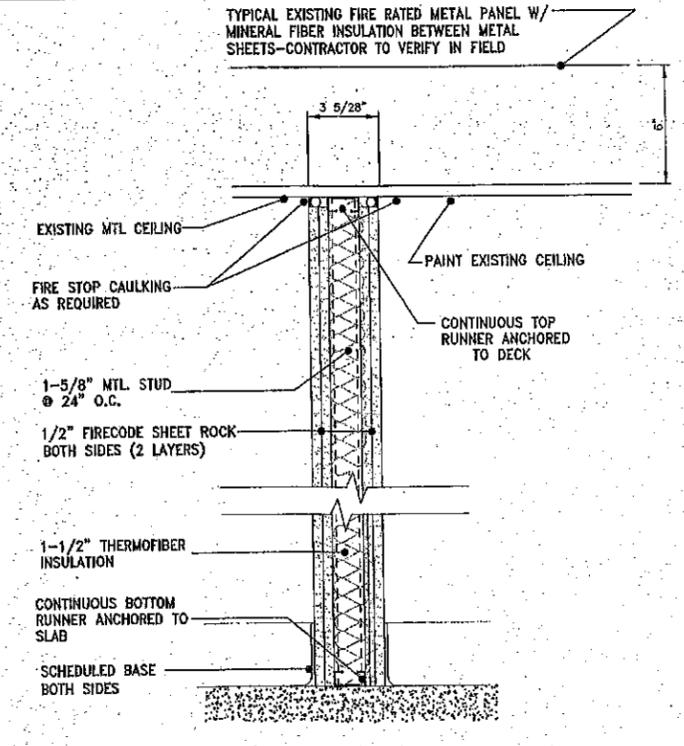


COLUMN DETAIL @ B1 & B2 (5) A-6

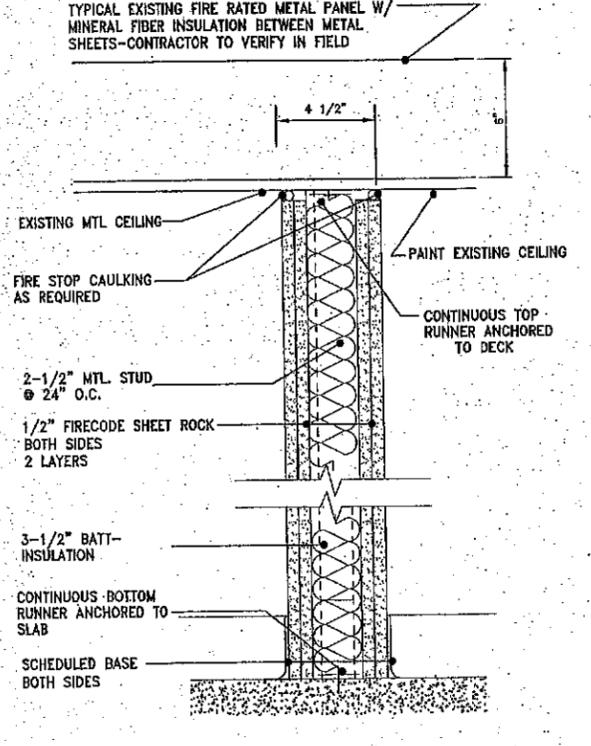
COLUMN PLAN DETAIL @ B3 (4) A-6



PARTITION TYPE 1: 2HR. RATED SHAFT WALL (1) A-6
SCALE: 3"=1'-0"



PARTITION TYPE 2: 2HR. RATED WALL (2) A-6
SCALE: 3"=1'-0"



PARTITION TYPE 3: 2HR. RATED WALL (3) A-6
SCALE: 3"=1'-0"

FOR CONSTRUCTION

PREPARED FOR:

verizon wireless

400 FRIBERG PARKWAY
WESTBOROUGH, MA 01581
(978) 330-3330 TEL

PREPARED BY:

Hudson Design Group

1500 OSBORN STREET
BUILDING 20 NORTH SUITE 3090
N. ANDOVER, MA 01862
TEL: (978) 557-5553
FAX: (978) 555-5556

WALL TYPE & SCHEDULES

REV	DATE	DESCRIPTION	CHK	APP'D
1	7/24/14	ISSUED FOR REVIEW	VT	JX
1	9/01/14	ISSUED FOR CONSTRUCTION	VT	JX

REGISTERED ARCHITECT

BRUCE P. O'DONNELL

No. 4181
Boston
Mass.

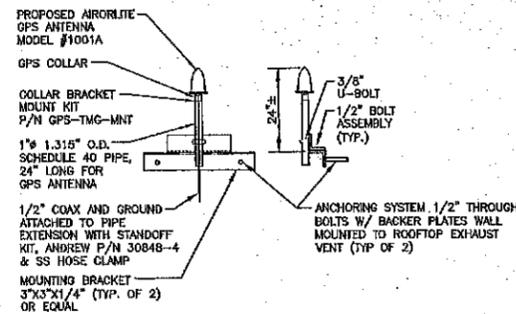
REGISTERED ENGINEER

SOMERVILLE-CAMBRIDGE
39R MEDFORD STREET
SOMERVILLE, MA 02143

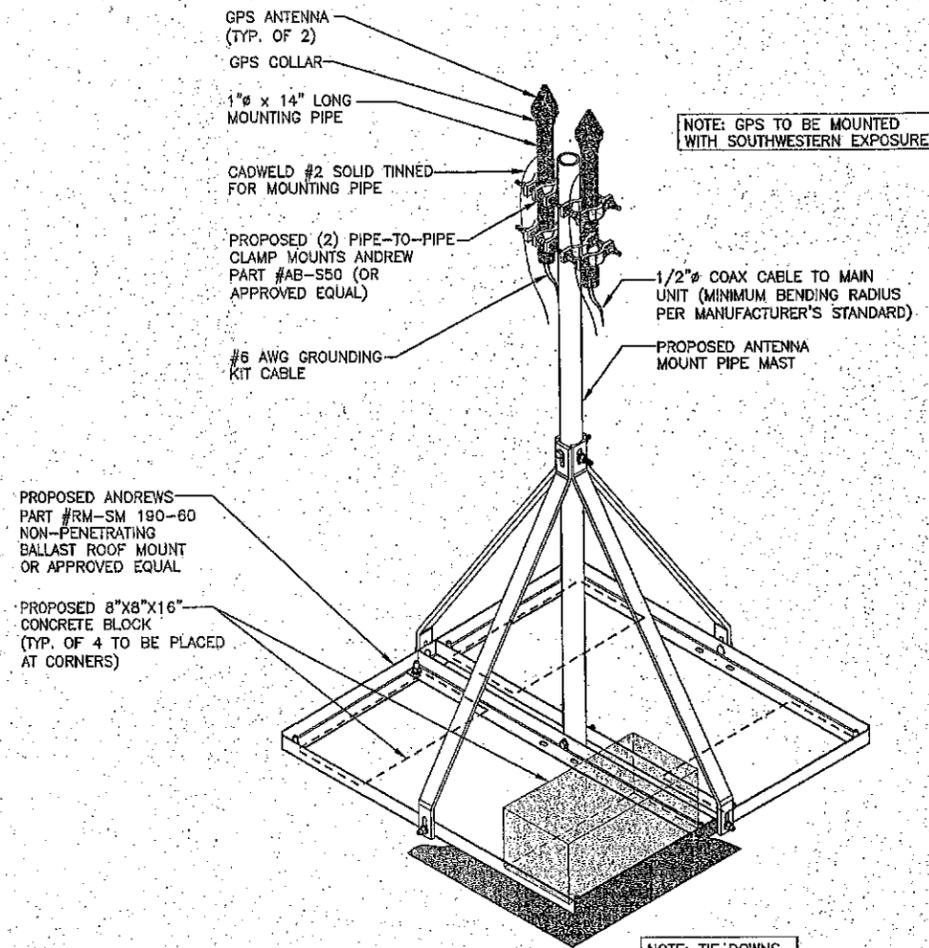
A-6

GENERAL NOTES

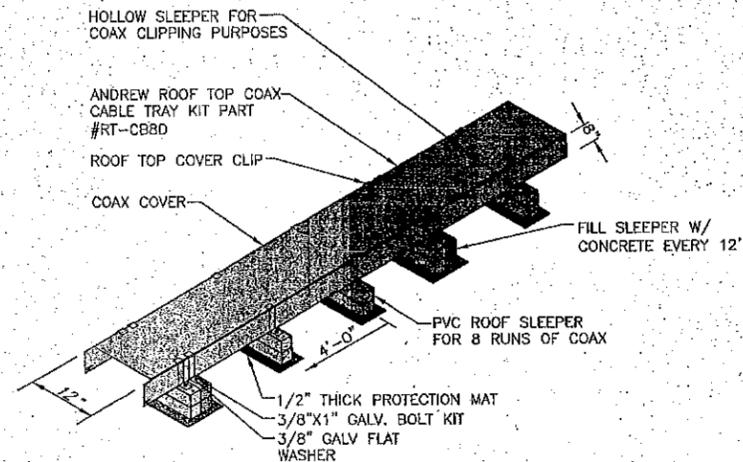
1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.
2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) LESSEE'S REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK.
4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS / CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S / VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
8. THE CONTRACTOR SHALL MAINTAIN A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
11. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
12. THE CONTRACTOR SHALL PROVIDE A DUMPSTER KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
13. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT SECTIONS OF THE LOCAL BUILDING CODE CMR 780, LATEST EDITION, AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
14. THE CONTRACTOR SHALL NOTIFY LESSEE'S REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY LESSEE'S REPRESENTATIVE.
15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.
16. MATERIALS AND EQUIPMENT INSTALLED SHALL BE NEW.
17. ANY DISTURBED EXISTING CONDITION SHALL BE CORRECTED AND REPAIRED.
18. THE FACILITY SHALL NOT REQUIRE ANY WATER SERVICE, SANITARY FACILITIES AND IS NOT DESIGNED FOR HABITATION.
19. SHOP DRAWING, CATALOGS, ETC., SHALL BE GIVEN TO THE PROJECT MANAGER AT THE JOB COMPLETION.
20. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH FIRE CODE (UL) APPROVED MATERIALS.
21. THE DOOR SHALL BE A STEEL DOOR. PROVIDE WEATHER STRIPPING, ALUMINUM THRESHOLD, HINGES AND LOCK SET. DOOR AND P.M. FRAME SHALL BE PAINTED AND HAVE A 1 1/2 HOUR (MIN.) FIRE RATING.
22. FINISH ALL DRYWALL SCREWS (FASTENERS) AND JOINTS. U.O.N. APPLY ONE COAT OF LATEX PRIMER AND FINISH WITH TWO COATS OF INTERIOR SEMI GLOSS LATEX PAINT.
23. ALL CABLE PORTS MUST BE WEATHER PROOFED DURING INSTALLATION USING SILICON SEALANT.
24. ALL GYPSUM WALL BOARD SHALL BE 5/8" FIRE-RATED GYPSUM PANEL TYPE "X".
25. AN AUTHORIZED APPLICATOR MUST PERFORM ALL WORK ON THE EXISTING WARRANTED ROOF THE MANUFACTURE SHALL BE NOTIFIED BY THE CONTRACTOR ONCE PENETRATIONS ARE COMPLETED TO ENABLE MANUFACTURE TO VALIDATE THE WARRANTY OF THE WORK.
26. PROPOSED 4'-0"x8'-0" FIRE RATED 3/4" PLYWOOD BACKER BOARD FOR: G.C. SUPPLIER: FIRE EXTINGUISHER, EYE WASH STATION, DOCUMENT HOLDER, FIRST AID KIT, BROOM, DUST BRUSH AND DUST PAN.



GPS ANTENNA MOUNTING DETAIL 3
SCALE: N.T.S.



GPS ANTENNA MOUNTING DETAIL 2
SCALE: N.T.S.



CABLE TRAY DETAIL 1
SCALE: N.T.S.

FOR CONSTRUCTION

PREPARED FOR:

verizon wireless

400 RIBERG PARKWAY
WESTBOROUGH, MA 01581
(508) 330-3500 TEL

PREPARED BY:

Hudson Design Group

1800 OSGOOD STREET
BURLINGTON, MA 01803
TEL: (978) 557-6553
FAX: (978) 326-5596

EQUIPMENT DETAILS		BY:	CHK:	APP'D:
REV	DATE	DESCRIPTION	ISSUED FOR REVIEW	ISSUED FOR CONSTRUCTION
-	7/24/14		VT	BOP JK
1	9/01/14			

REGISTERED ARCHITECT

SHAWN P. O'DONNELL

No. 4161

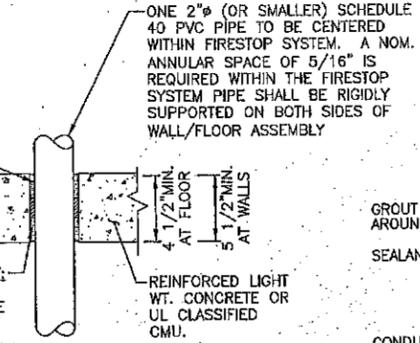
Seals

REGISTERED ENGINEER

SOMERVILLE--CAMBRIDGE
39R MEDFORD STREET
SOMERVILLE, MA 02143

A-7

PACKING MATERIAL: MIN 1-1/2 in. THICKNESS OF MIN 6 pcf MINERAL WOOL BATT INSULATION FIRMLY PACKED INTO OPENING AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.

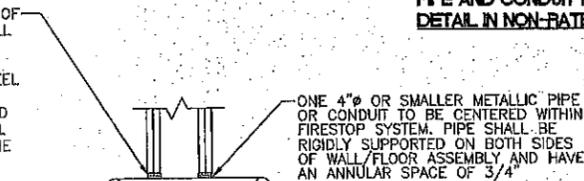


FILL VOID OR CAVITY MATERIAL - SEALANT: MIN 2 in. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH THE TOP SURFACE OF FLOOR OR WITH BOTH SURFACES OF WALL.

SPECIFIED TECHNOLOGIES, INC. UL SYSTEM NUMBER: C-AJ-2057
SPECSEAL SERIES SSS SEALANT OR SPECSEAL LCI SEALANT. F RATING - 2 HR.

PVC CONDUIT PENETRATION DETAIL IN CONCRETE OR MASONRY

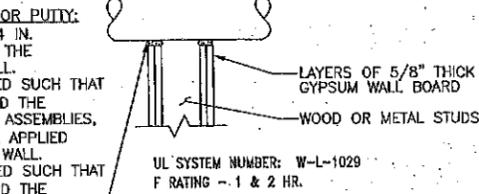
PACKING MATERIAL: MIN. 1 in. THICKNESS OF MIN. 3.5 pcf FIBERGLASS INSULATION SHALL BE WRAPPED AROUND THE THROUGH-PENETRANT AND SECURED TOGETHER BY MEANS OF NO. 24 AWG STEEL TIE WIRE. PACKING MATERIAL SHALL BE CENTERED AT MID-DEPTH OF OPENING AND RECESSED FROM BOTH SURFACES OF WALL ASSEMBLY REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF FILL MATERIAL.



NOTE: CORE HOLE 1 1/2" LARGER THAN THE DIAMETER OF THE CONDUIT. CORE DRILLS TO BE SEALED WITH ELASTOMERIC SEALANT.

PIPE AND CONDUIT PENETRATION DETAIL IN NON-RATED PARTITION

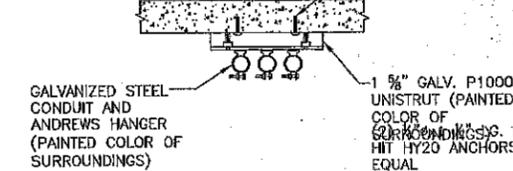
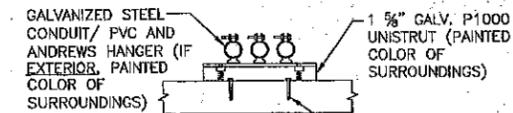
FILL VOID OR CAVITY MATERIAL - CAULK OR PUTTY: IN 2 HR FIRE RATED ASSEMBLIES MIN 3/4 in. THICKNESS FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH BOTH SURFACES OF WALL. ADDITIONAL FILL MATERIAL TO BE INSTALLED SUCH THAT A MIN 1/4 in. CROWN IS FORMED AROUND THE PENETRATING ITEM. IN 1 HR FIRE RATED ASSEMBLIES, MIN 5/8 in. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS ON BOTH SURFACES OF WALL. ADDITIONAL FILL MATERIAL TO BE INSTALLED SUCH THAT A MIN 3/8 in. CROWN IS FORMED AROUND THE PERIPHERY OF THE OPENING.



UL SYSTEM NUMBER: W-L-1029
F RATING - 1 & 2 HR.

PIPE AND CONDUIT PENETRATION DETAIL IN GYPSUM WALLBOARD

SPECIFIED TECHNOLOGIES, INC. SPECSEAL SERIES SSS SEALANT, SPECSEAL LCI SEALANT OR SPECSEAL PUTTY.



CONDUIT RUN DETAIL
SCALE: N.T.S.

NOTE:

CABLES IN VERTICAL RUNS. CABLES INSTALLED IN VERTICAL RUNS AND PENETRATING MORE THAN ONE FLOOR, OR CABLES INSTALLED IN VERTICAL RUNS IN A SHAFT, SHALL BE TYPE CMR. FLOOR PENETRATIONS REQUIRING TYPE CMR SHALL CONTAIN ONLY CABLES SUITABLE FOR RISER OR PLENUM USE. LISTED RISER COMMUNICATIONS RACEWAYS AND LISTED PLENUM COMMUNICATIONS RACEWAYS SHALL BE PERMITTED TO BE INSTALLED IN VERTICAL RISER RUNS IN A SHAFT FROM FLOOR TO FLOOR. ONLY TYPE CMR CABLES SHALL BE PERMITTED TO BE INSTALLED IN THESE RISERS. ONLY CMP CABLES SHALL BE PERMITTED TO BE INSTALLED IN PLENUMS.

METAL RACEWAYS OR FIREPROOF SHAFTS. LISTED COMMUNICATIONS CABLES SHALL BE ENCASED IN A METAL RACEWAY OR LOCATED IN A FIREPROOF SHAFT HAVING FIRESTOPS AT EACH FLOOR.

NOTE: FOR MORE THAN 2 CONDUITS - FABRICATE ENCLOSURE WITH PORTS ON OPPOSITE SIDE - STAGGERED

UTILITY CONDUIT PENETRATION DETAIL
SCALE: N.T.S.

FLOOR OR WALL	MIN FLOOR OR WALL THKNS. (in.)	MAX DIAM OF STEEL PIPE OR CONDUIT (in.)	MIN ANNULAR SPACE (in.)	MAX ANNULAR SPACE (in.)	MIN FILL MTL THKNS (in.)	MIN FORMING MTL THKNS (in.)	F RATING (HOURS)	T RATING (HOURS)
FLOOR	3-3/4	1-1/2	3/8	2-1/8	1	2-3/4	2	0
FLOOR	3-3/4	6	3/8	3/4	1	2-3/4	2	0
FLOOR	3-3/4	6	3/8	1	2	1-3/4	2	0
FLOOR	4-1/2	1-1/2	3/8	2-1/8	1	3-1/2	3	3/4
FLOOR	4-1/2	6	3/8	3/4	1	3-1/2	3	0
FLOOR	4-1/2	6	3/8	1	2	2-1/2	3	0
WALL	5-1/2	1-1/2	3/8	2-1/8	1	3-1/2	3	3/4
WALL	5-1/2	6	3/8	3/4	1	3-1/2	3	0
WALL	6-1/2	1-1/2	3/8	2-1/8	2	2-1/2	3	1
WALL	6-1/2	6	3/8	1	2	2-1/2	3	0

CONCRETE FLOOR OR WALL ASSEMBLY, MINIMUM 3-3/4 in. THICKNESS FLOOR/ MINIMUM 6-1/2 in. WALL

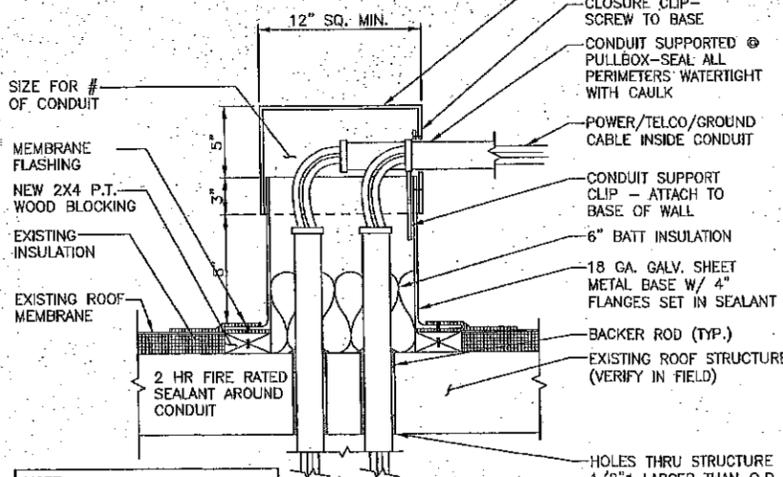
TYPE AS OR TYPE SS: MINIMUM THICKNESS OF SEALANT AS SPECIFIED IN THE TABLE ABOVE, APPLIED WITHIN THE OPENING, FLUSH WITH THE TOP SURFACE OF THE FLOOR OR BOTH SURFACES OF THE WALL.

FORMING MATERIAL: MINERAL WOOL BATT INSULATION (MINIMUM 4.0 pcf) FIRMLY PACKED INTO THE OPENING AS A PERMANENT FORM; SEE TABLE FOR MINIMUM REQUIRED THICKNESS

METALLIC PIPE: STEEL PIPE: 6" (OR SMALLER) SCHEDULE 10 (OR HEAVIER) STEEL PIPE. CONDUIT: 4" (OR SMALLER) ELECTRICAL METALLIC TUBING (EMT) OR 6" RIGID STEEL CONDUIT.

UL SYSTEM NUMBER: C-AJ-1020
F RATING - 3 HR. (FOR PIPES GREATER THAN 4")
F RATING - 2 HR. (FOR PIPES LESS THAN 4")

PIPE AND CONDUIT PENETRATION DETAIL IN CONCRETE OR MASONRY



NOTE: DETAIL AS SHOWN IS FOR SECONDARY ELECTRIC SERVICE. PRIMARY HIGH VOLTAGE SERVICE REQUIRES 4" CONCRETE ENCASEMENT.

SCHEDULE 40 CONDUITS FOR NEW ELECTRICAL AND TELEPHONE SERVICES. SEE UTILITY AND SITE PLANS. PROVIDE APPROVED PULL BOXES AS REQUIRED, AND COORDINATE INSTALLATION W/ ALL UTILITY COMPANIES FOR INTERFACING AT TERMINATION POINTS. PROVIDE FULL LENGTH PULL ROPES (TYP.).

UTILITY CONDUIT PENETRATION DETAIL
SCALE: N.T.S.

WALL HR	MAX DIAM OF THROUGH PENETRANT in.	T RATING HR
1	2	1-1/2
2	1-1/4	1-1/2

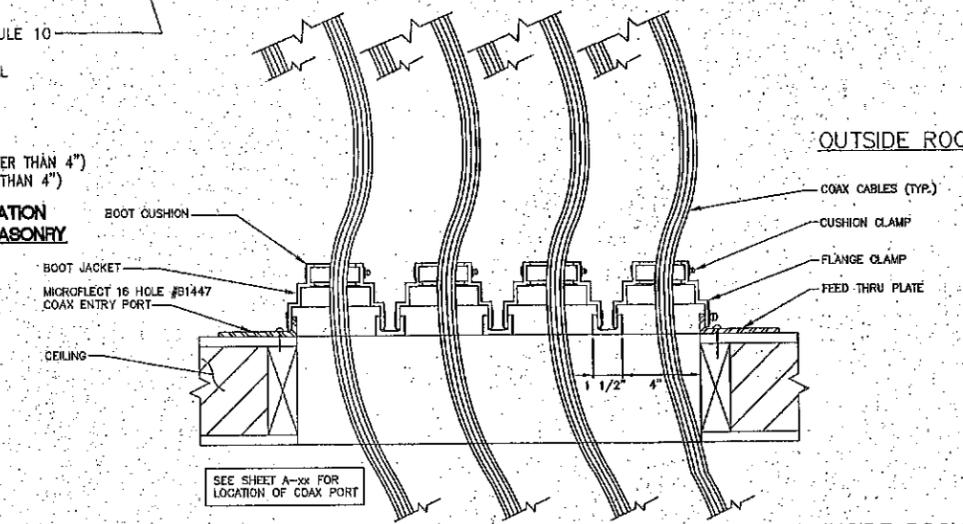
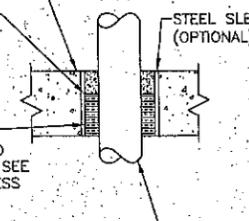
THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.

THROUGH PENETRANTS: ONE 2" NONMETALLIC PIPE, CONDUIT OR RACEWAY TO BE CENTERED WITHIN THE FIRESTOP SYSTEM. A NOM ANNULAR SPACE OF 5/16 in. IS REQUIRED WITHIN THE FIRESTOP SYSTEM. PIPE, CONDUIT OR RACEWAY TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR OR WALL ASSEMBLY.

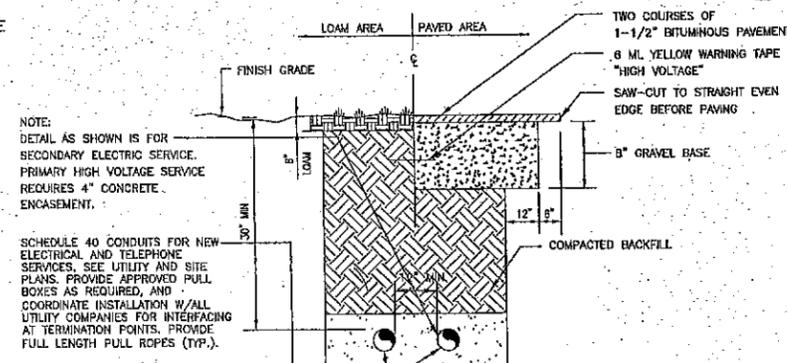
FILL VOID OR CAVITY MATERIAL - SEALANT: MIN 5/8 in. THICKNESS OF FILL MATERIAL APPLIED WITHIN ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. ADDITIONAL FILL MATERIAL TO BE INSTALLED SUCH THAT A MIN 1/4 in. THICK CROWN IS FORMED AROUND THE PENETRATING ITEM AND LAPPING 1 in. BEYOND THE PERIPHERY OF THE OPENING.

SPECIFIED TECHNOLOGIES, INC. UL SYSTEM NUMBER: W-L-2093
SPECSEAL SERIES SSS SEALANT, SPECSEAL LCI SEALANT. F RATING - 1 & 2 HR.

PVC CONDUIT PENETRATION DETAIL IN GYPSUM WALLBOARD



CABLE ENTRY PLATE (THRU EQUIP. ROOM CEILING)
SCALE: N.T.S.



TYPICAL BURIED CONDUIT DETAIL
SCALE: N.T.S.

FOR CONSTRUCTION

PREPARED FOR: **verizon wireless**
400 FRIBERG PARKWAY
FRIBERG, MA 01501
(508) 353-8330 TEL

PREPARED BY: **Hudson Design Group, Inc.**
1600 OSGOOD STREET SUITE 300
PLAINVILLE, MA 01861
TEL: (978) 527-5553
FAX: (978) 324-5586

MISCELLANEOUS DETAILS

REV	DATE	DESCRIPTION	BY	CHKD	APP'D
1	7/24/14	ISSUED FOR REVIEW	VT	JK	
1	9/01/14	ISSUED FOR CONSTRUCTION	VT	JK	

REGISTERED ENGINEER
Somerville, MA

SOMERVILLE-CAMBRIDGE
39R MEDFORD STREET
SOMERVILLE, MA 02143

A-8

FOR CONSTRUCTION



MISCELLANEOUS DETAILS

REV	DATE	DESCRIPTION	BY	CHK	APPD
1	7/24/14	ISSUED FOR REVIEW	VT	BJP	JK
2	8/01/14	ISSUED FOR CONSTRUCTION			

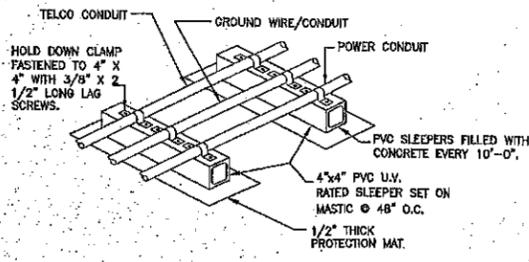


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39R MEDFORD STREET
SOMERVILLE, MA 02143

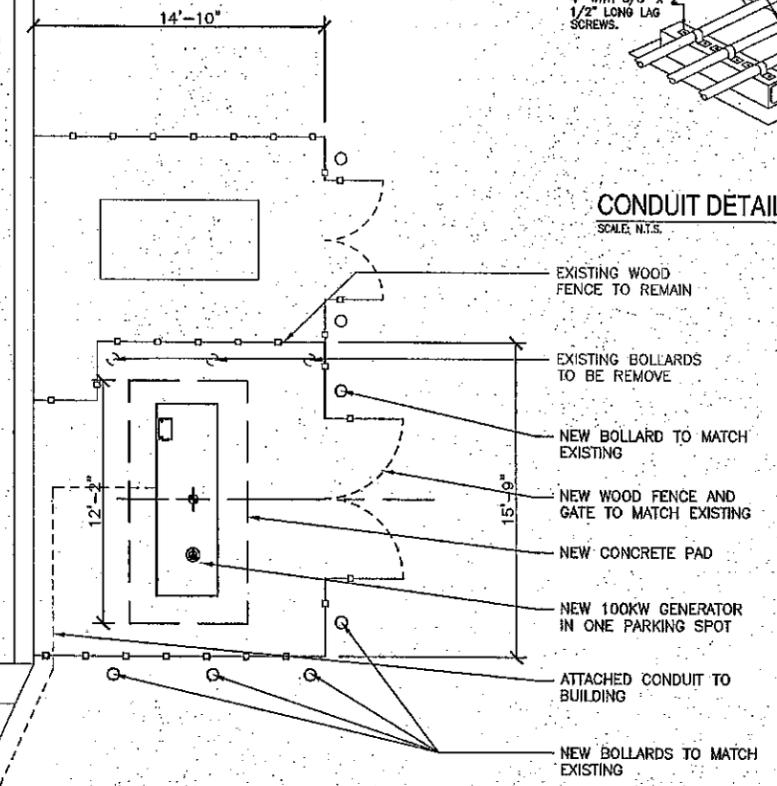
A-9

FOUNDATION NOTES & CONCRETE SPECIFICATIONS

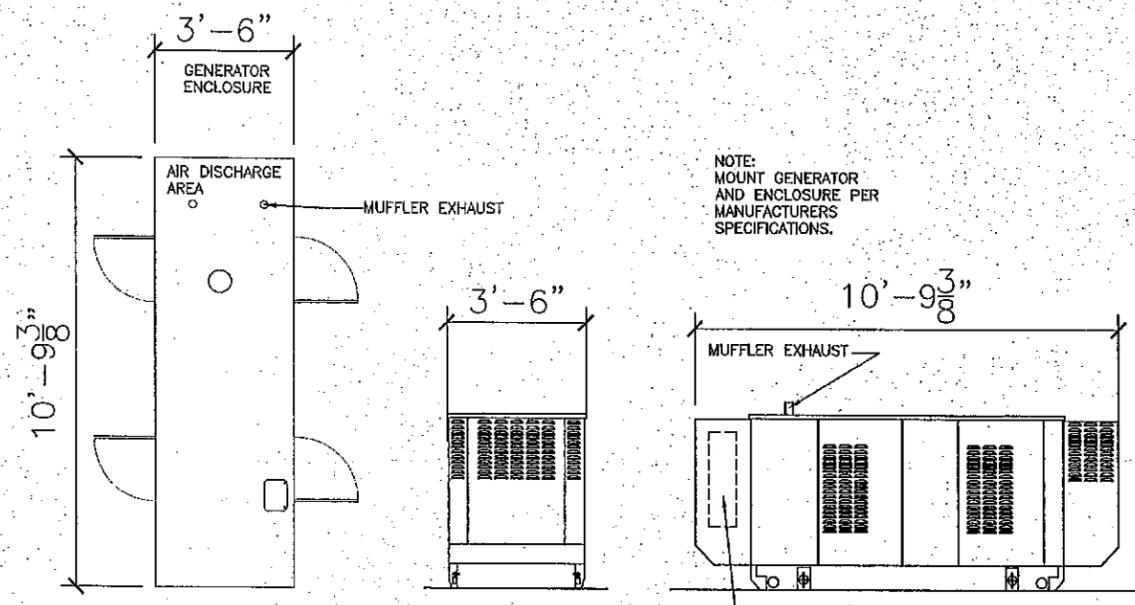
- FOUNDATION AREA SHALL BE EXCAVATED TO THE DEPTH AND DIMENSIONS SHOWN ON THE PLANS. EXISTING LEDGE AND ALL OTHER EXISTING UNSUITABLE MATERIAL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE. THE SUBGRADE SHALL BE ROLLED WITH A 1-TON, VIBRATORY, WALK-BEHIND ROLLER AT A SPEED OF LESS THAN 2 FPS, 8 PASSES MINIMUM, TO PROVIDE UNYIELDING SURFACE.
- UNDERCUT SOFT OR "WEAVING" AREAS A MINIMUM OF 12 INCHES DEEP. BACKFILL UNDERCUT AREA WITH FILL MEETING THE SPECIFICATIONS OF STRUCTURAL FILL.
- CONCRETE TO HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH (f'_c)=4000 psi. CONCRETE TO BE AIR ENTRAINED, DESIRED AIR CONTENT TO BE 6% (PLUS OR MINUS 2%).
- REINFORCING BAR TO BE ASTM A615 GRADE 60.
- WELDED WIRE FABRIC TO CONFORM TO THE REQUIREMENTS OF ASTM A185. WIRES FOR FABRIC TO CONFORM TO THE REQUIREMENTS OF ASTM A82.
- COORDINATE WITH MANUFACTURER OF PREFABRICATED SHELTER FOR LOCATION OF ATTACHMENTS TO BASE SLAB.
- ALL REINFORCING TO HAVE MINIMUM CONCRETE COVER PER ACI SPECIFICATIONS.
- ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO LATEST EDITION OF ACI 318 AND APPLICABLE STATE BUILDING CODE.



CONDUIT DETAIL
SCALE: N.T.S.

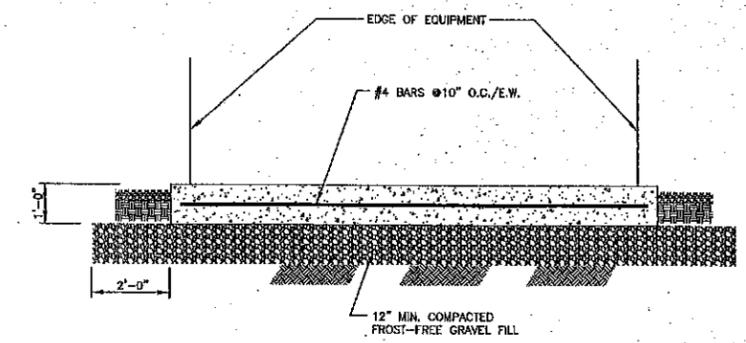


GENERATOR LOCATION PLAN
SCALE: 1/4"=1'-0"

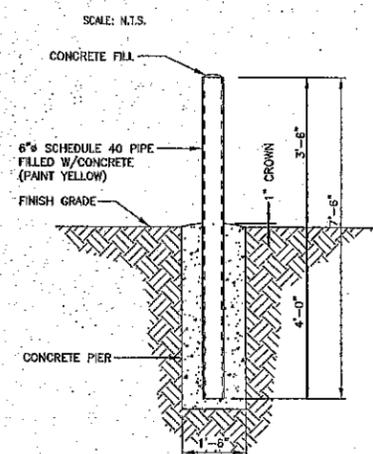


PLAN **ELEVATION (SIDES)** **ELEVATION (FRONT & BACK)**

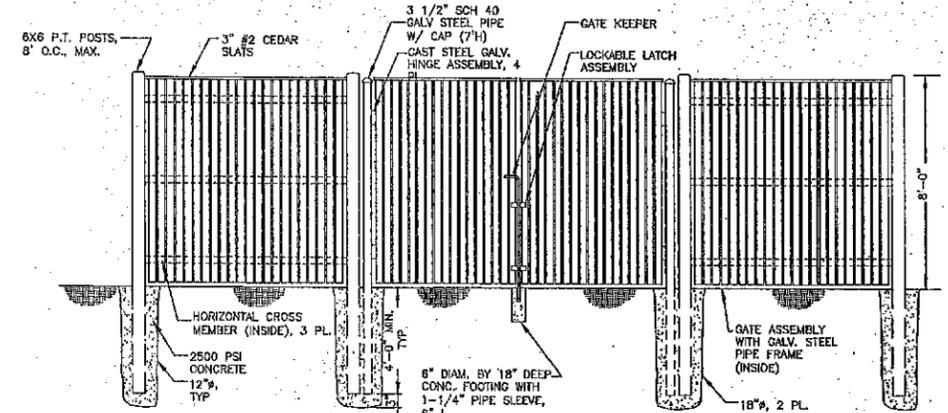
NOTE:
MOUNT GENERATOR
AND ENCLOSURE PER
MANUFACTURERS
SPECIFICATIONS.



CONCRETE PAD DETAIL
SCALE: N.T.S.

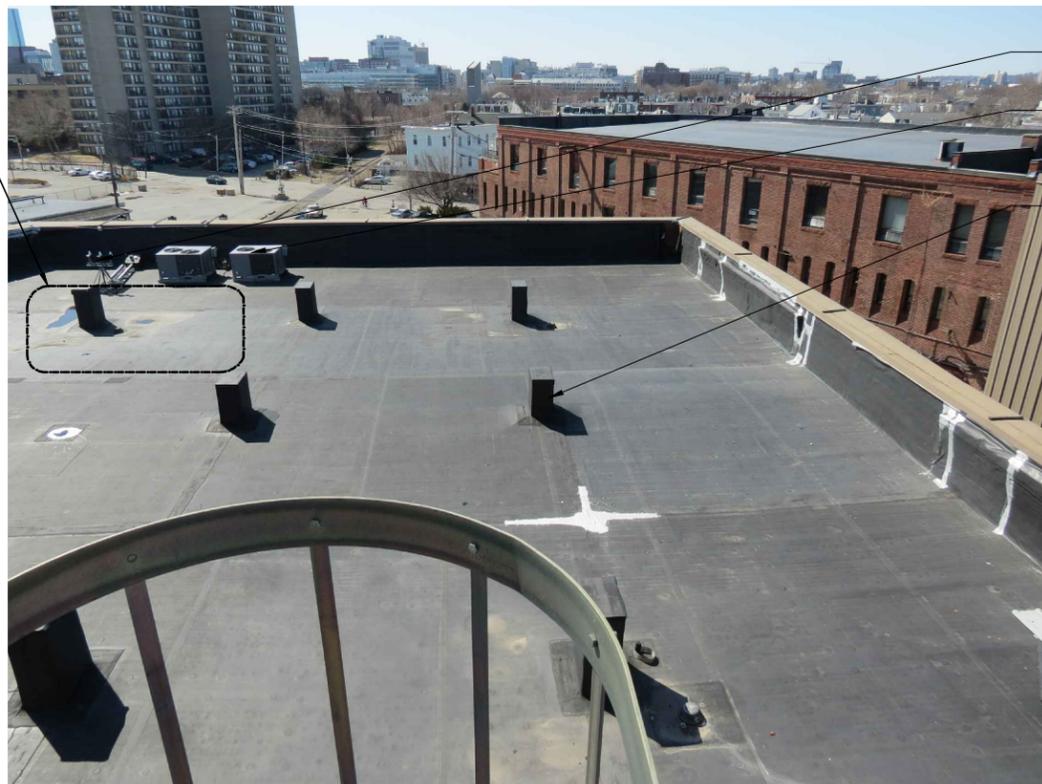


CONCRETE FILLED BOLLARD
SCALE: N.T.S.



FENCE DETAIL (OR APPROVED EQUAL)
SCALE: N.T.S.

PROPOSED VERIZON ROOFTOP EQUIPMENT AREA

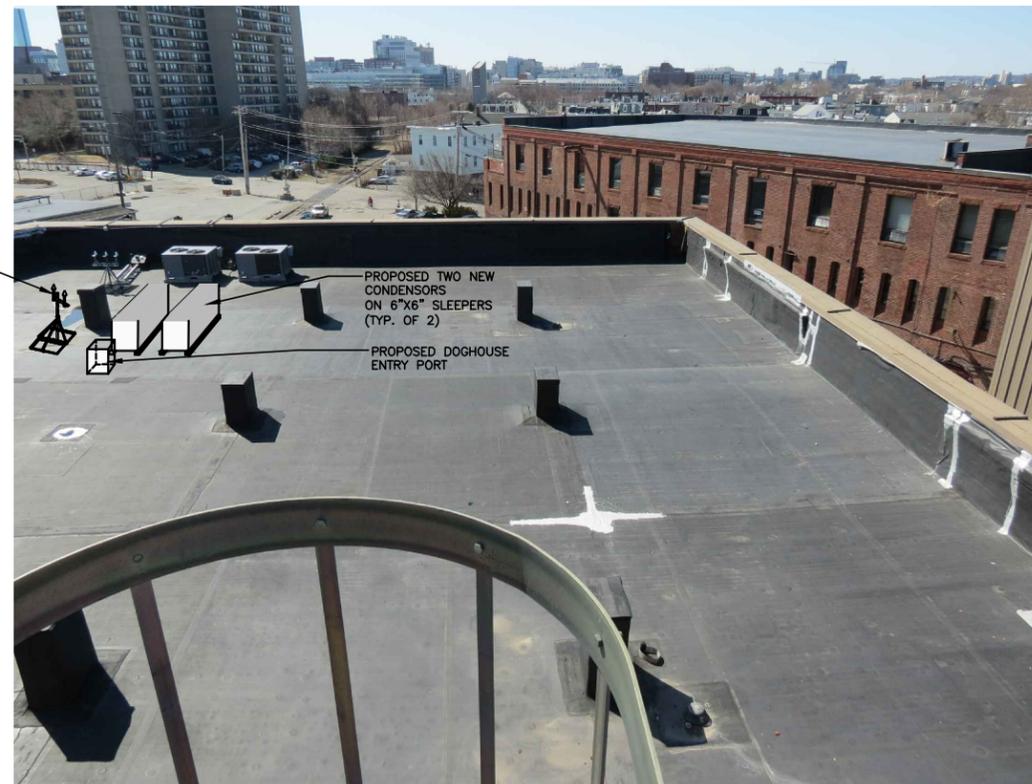


EXISTING METRO PCS GPS ANTENNA
 EXISTING METRO PCS CONDENSORS
 EXISTING COLUMN STUB OUT
 PROPOSED VERIZON WIRELESS GPS ANTENNA ON NEW BALLAST MOUNT

EXISTING PHOTO ROOF VIEW

3
A-10

SCALE: N.T.S.

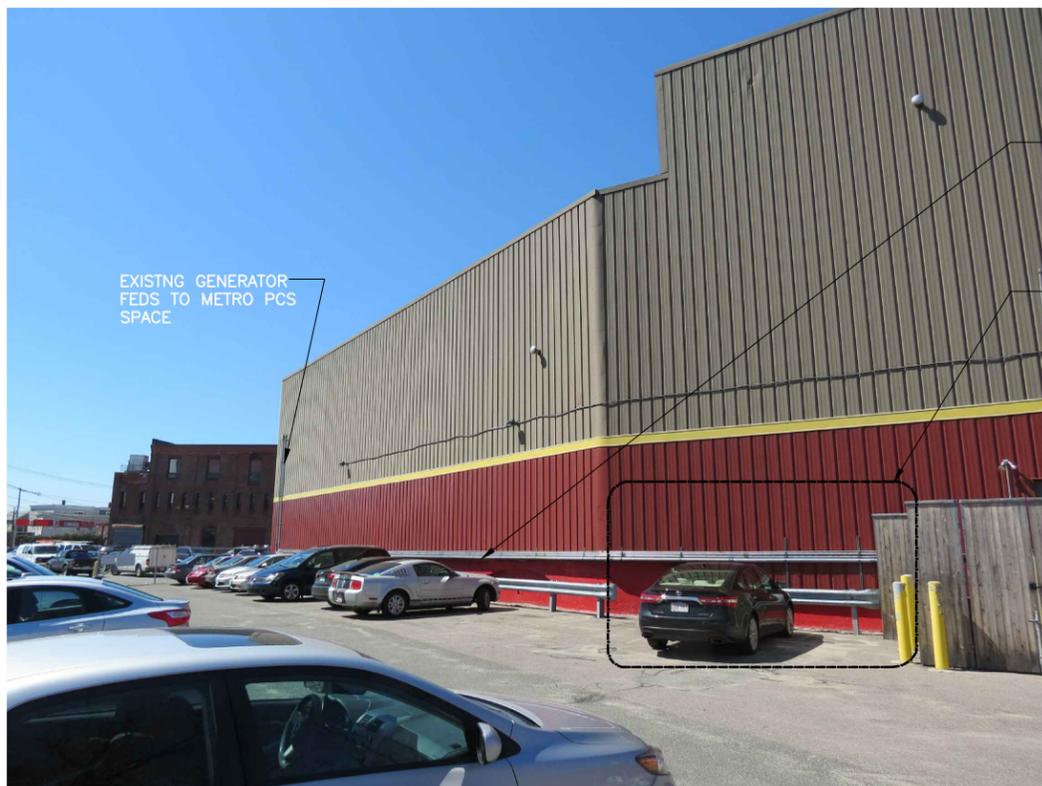


PROPOSED TWO NEW CONDENSORS ON 6"x6" SLEEPERS (TYP. OF 2)
 PROPOSED DOGHOUSE ENTRY PORT

PROPOSED PHOTO ROOF VIEW

4
A-10

SCALE: N.T.S.



EXISTING GENERATOR FEDS TO METRO PCS SPACE

EXISTING GENERATOR FEDS
 EXISTING PARKING TO BE PROPOSED FOR NEW GENERATOR

PROPOSED GENERATOR FEDS TO VERIZON WIRELESS SPACE

EXISTING PHOTO VIEW

1
A-10

SCALE: N.T.S.



PROPOSED VZW GENERATOR FEDS ABOVE EXISTING

PROPOSED VZW GENERATOR AND FENCE ENCLOSURE TO MATCH EXISTING 8' FENCE. GENERATOR IS ABOUT 6' HIGH AND WILL BE HIDDEN BEHIND FENCE

PROPOSED PHOTO SIMULATION VIEW

2
A-10

SCALE: N.T.S.

PREPARED FOR:

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PREPARED BY:

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 N. ANDOVER, MA 01845
 TEL: (978) 557-5553
 FAX: (978) 336-5586

PHOTO ELEVATIONS SIMULATION

REV	DATE	DESCRIPTION	BY	CHK	APP'D
-	7/24/14	ISSUED FOR REVIEW	-	-	-
-	9/01/14	ISSUED FOR CONSTRUCTION	VT	BOP	JX

REGISTERED ENGINEER

SOMERVILLE-CAMBRIDGE
 39R MEDFORD STREET
 SOMERVILLE, MA 02143

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