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Lucia Chiochio  
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9/15/20

VIA ELECTRONIC MAIL

Melanie A. Bachman, Esq.  
Executive Director/Staff Attorney  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

Re: PETITION NO. 1411 - New Cingular Wireless PCS, LLC (AT&T) petition for a declaratory ruling, pursuant to Connecticut General Statutes §4-176 and §16-50k, for the proposed installation of a small cell wireless telecommunications facility on the roof of an existing commercial building located at 132 Greenwood Avenue, Bethel, Connecticut.

Dear Ms. Bachman:

This letter and enclosure are respectfully submitted on behalf of New Cingular Wireless PCS LLC ("AT&T") in connection with the August 14, 2020 approval of the above- referenced Petition ("August 14, 2020 Approval").

In accordance with condition no. 2 of the August 14, 2020 Approval, please find enclosed drawings prepared by Hudson Design Group LLC dated 9/9/20 depicting screening/concealment of AT&T's canister antenna for the Council's review and approval.

Should Staff or the Council have any questions regarding this information, please do not hesitate to contact me.

Very truly yours,

A handwritten signature in blue ink that reads 'Lucia Chiochio'.

Lucia Chiochio

Enclosure

cc: The Honorable Matthew S. Knickerbocker, First Selectman, Town of Bethel; Beth Cavagna, Director/Town Planner, Town of Bethel; AT&T; Centerline Communications; Riddar Nget



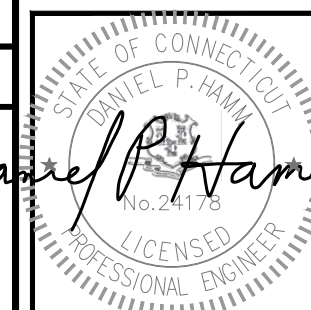
**AT&T SITE ID: CRAN\_RCTB\_DRBY\_004**  
**132 GREENWOOD AVE.**  
**BETHEL, CT 06801**

500 ENTERPRISE DRIVE, SUITE 3A  
 ROCKY HILL, CT 06067

750 WEST CENTER STREET,  
 SUITE# 301  
 WEST BRIDGEWATER, MA 02379

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

**PERMIT ONLY (NOT FOR CONSTRUCTION)**



CHECKED BY: AT  
 APPROVED BY: DPH

SUBMITTALS			
REV.	DATE	DESCRIPTION	BY
A	09/09/20	ISSUED FOR REVIEW	MR

CLUSTER AND NODE NUMBER:  
 CRAN\_RCTB\_DRBY\_004  
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 FAIRFIELD COUNTY

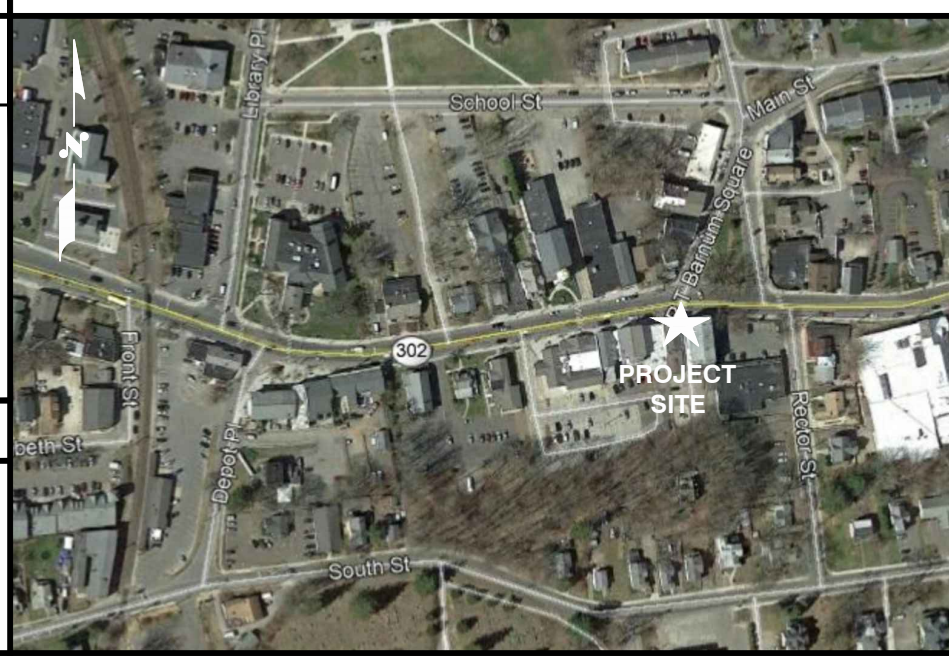
SHEET TITLE  
 TITLE SHEET

SHEET NUMBER  
**T-1**

**SHEET INDEX**

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**VICINITY MAP (NOT TO SCALE)**



**GENERAL NOTES**

1. THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
2. THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T MOBILITY REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
4. CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN.

*Daniel P. Hamm*

**PROJECT DESCRIPTION**

1. INSTALLATION OF ANTENNA AND ASSOCIATED EQUIPMENT ON EXISTING ROOFTOP.
2. THIS IS AN UNMANNED AND RESTRICTED ACCESS EQUIPMENT SITE AND WILL BE USED FOR THE TRANSMISSION OF RADIO SIGNALS FOR THE PURPOSE OF IMPROVING CELLULAR AND WIRELESS INTERNET SERVICE.

**DO NOT SCALE DRAWINGS**

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNER'S REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

**PROJECT SUMMARY**

SITE ADDRESS: 132 GREENWOOD AVE.  
 BETHEL, CT 06801  
 COUNTY: FAIRFIELD  
 LATITUDE: 41.371121° N  
 LONGITUDE: 73.411861° W  
 ARCHITECT/ENGINEER: HUDSON DESIGN GROUP LLC  
 45 BEECHWOOD DRIVE  
 NORTH ANDOVER, MA 01845

**DRIVING DIRECTIONS**

FROM ROCKY HILL CT:  
 HEAD SOUTHEAST TOWARD CAPITAL BLVD. TURN LEFT ONTO CAPITAL BLVD. TURN LEFT ONTO STATE HWY 411 TURN LEFT TO MERGE ONTO I-91 S. MERGE ONTO I-91 S. TAKE EXIT 18 FOR I-691 W TOWARD MERIDEN/WATERBURY. CONTINUE ONTO I-691 W. TAKE EXIT 1 ON THE LEFT FOR I-84 W TOWARD WATERBURY/DANBURY. MERGE INTO I-84. TAKE EXIT 11 TOWARD T-34/DERBY/NEW HAVEN. TURN LEFT ONTO WASSEMAN WAY. CONTINUE ONTO MILE HILL RD. TURN RIGHT ONTO CT-25 N/S MAIN ST. TURN LEFT ONTO CT-302 W/ SUGAR ST. TURN LEFT ONTO GREENWOOD AVE.

**72 HOURS**

**CALL BEFORE YOU DIG**  
 CALL TOLL FREE 1-800-922-4455  
 OR CALL 811

**UNDERGROUND SERVICE ALERT**

**GENERAL NOTES**

- FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:  
 CONTRACTOR – CENTERLINE  
 SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)  
 OWNER – AT&T MOBILITY
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
- UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
- THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
- SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
- THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
- SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
- ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
- ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
- CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T SITES."
- SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

18. APPLICABLE BUILDING CODES:  
 SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

**BUILDING CODE: IBC 2015 WITH 2018 CT SUPPLEMENT**  
**ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE (NFPA 70-2017)**

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

**AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;**

**AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)**

**MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION;**

**TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.**

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

19. CONSTRUCTION TO BE COMPLETED IN ACCORDANCE WITH THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION'S LOW RISK HANDBOOK FOR EROSION PROTECTION AND SEDIMENT CONTROL

20. CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR ANY REQUIRED RIGHT OF WAY PERMITS FOR INSTALLATION IN PUBLIC RIGHT OF WAY.

**GROUNDING NOTES**

- THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTNING PROTECTION CODE, AND GENERAL COMPLIANCE WITH ERICSSON AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
- THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81 STANDARDS) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
- METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
- EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS AND #2 AWG STRANDED COPPER FOR OUTDOOR BTS.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO GROUND BAR.
- ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50



500 ENTERPRISE DRIVE, SUITE 3A  
 ROCKY HILL, CT 06067



750 WEST CENTER STREET,  
 SUITE# 301  
 WEST BRIDGEWATER, MA 02379



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



*Daniel P. Haman*

CHECKED BY: AT

APPROVED BY: DPH

**SUBMITTALS**

REV.	DATE	DESCRIPTION	BY
A	09/09/20	ISSUED FOR REVIEW	MR

CLUSTER AND NODE NUMBER:  
 CRAN\_RCTB\_DRBY\_004

SITE ID:  
 CRAN\_RCTB\_DRBY\_004

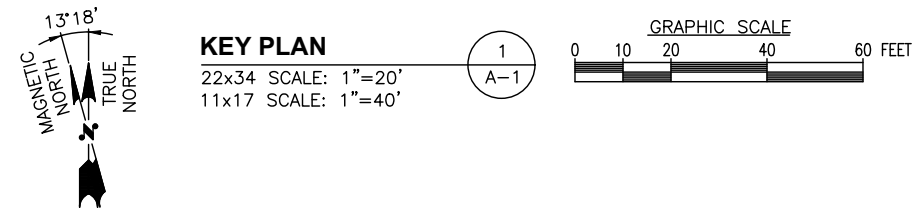
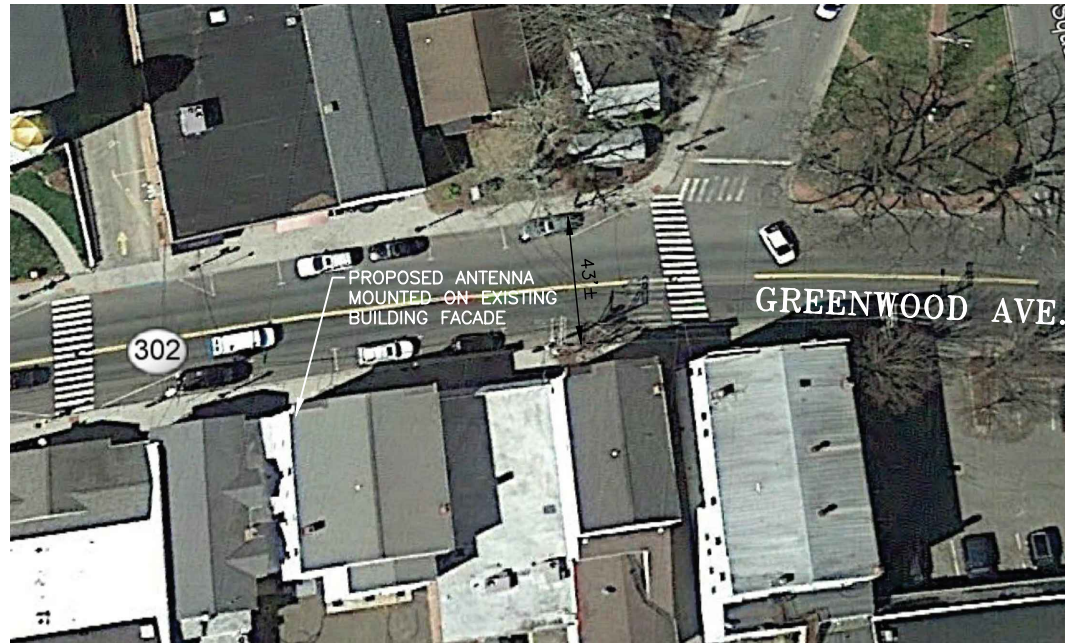
SITE ADDRESS:  
 132 GREENWOOD AVE.  
 BETHEL, CT 06801  
 FAIRFIELD COUNTY

SHEET TITLE  
 GENERAL NOTES

SHEET NUMBER  
**GN-1**

**ABBREVIATIONS**

AGL	ABOVE GRADE LEVEL	EQ	EQUAL	REQ	REQUIRED
AWG	AMERICAN WIRE GAUGE	GC	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
BBU	BATTERY BACKUP UNIT	GRC	GALVANIZED RIGID CONDUIT	TBD	TO BE DETERMINED
BTCW	BARE TINNED SOLID COPPER WIRE	MGB	MASTER GROUND BAR	TBR	TO BE REMOVED
BGR	BURIED GROUND RING	MIN	MINIMUM	TBRR	TO BE REMOVED AND REPLACED
BTS	BASE TRANSCEIVER STATION	P	PROPOSED	TYP	TYPICAL
E	EXISTING	NTS	NOT TO SCALE	UG	UNDER GROUND
EGB	EQUIPMENT GROUND BAR	RAD	RADIATION CENTER LINE (ANTENNA)	VIF	VERIFY IN FIELD
EGR	EQUIPMENT GROUND RING	REF	REFERENCE		



**NOTE:**  
 1. THE WIRELESS COMMUNICATIONS OPERATOR IS RESPONSIBLE FOR PLACING A WARNING SIGN ON THE POWER SUPPLY COMMUNICATING THE RF EMISSIONS IN COMPLIANCE WITH THE CURRENT EDITION OF IEEE STANDARD C95.2. THIS SIGN MUST ALSO HAVE A 24-HOUR CONTACT PHONE NUMBER IN CASE OF EMERGENCY. THIS NUMBER MUST BE VISIBLE FROM THE GROUND.

APPROXIMATE COORDINATES: LAT: 41.371121° N LONG: 73.411861° W

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Daniel P. Hamm  
 No. 24178  
 LICENSED PROFESSIONAL ENGINEER

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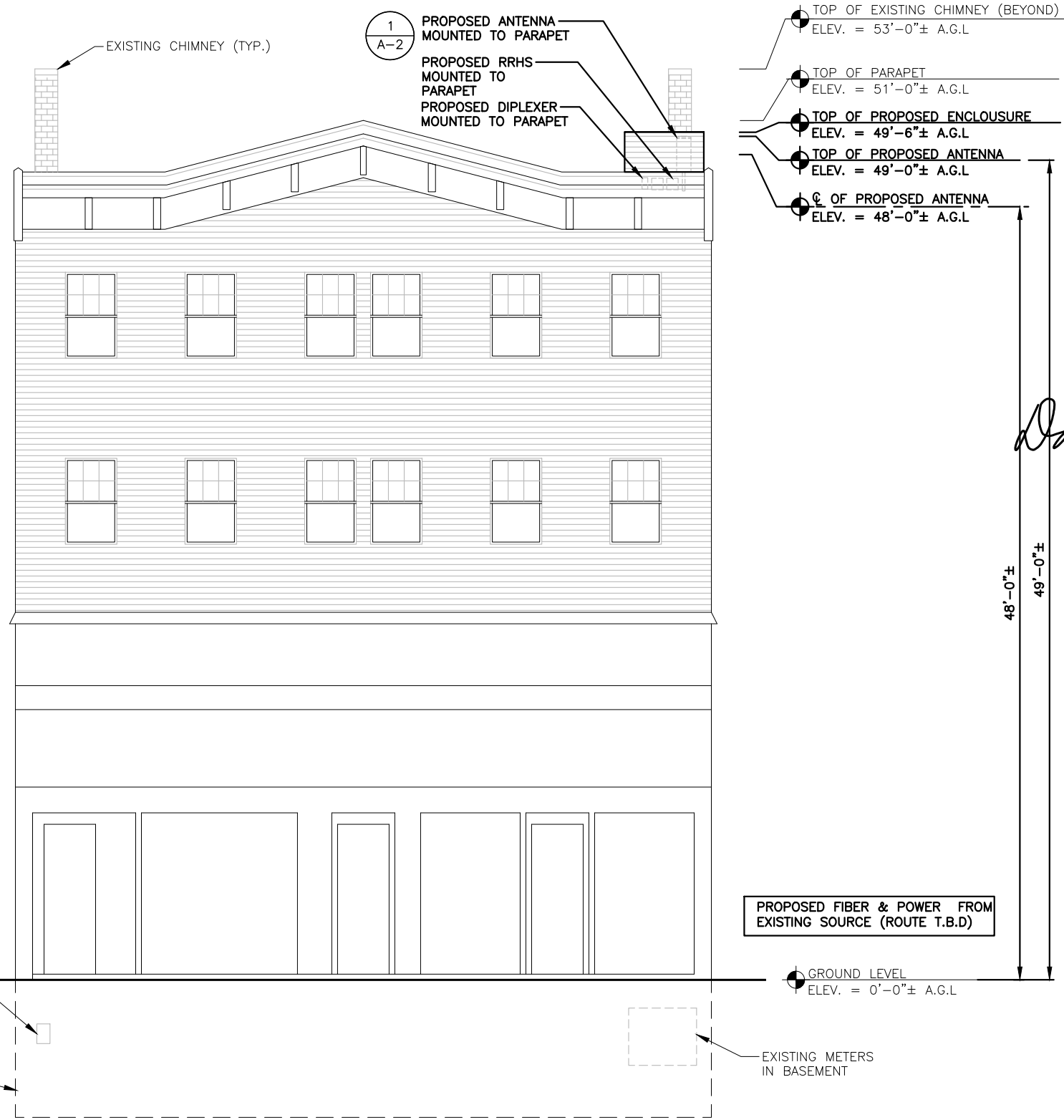
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SHEET TITLE  
 KEY PLAN AND ELEVATION

SHEET NUMBER  
**A-1**



**EXISTING CONDITIONS PHOTO DETAIL**  
 SCALE: N.T.S.

**ELEVATION**  
 22x34 SCALE: 1/4"=1'-0"  
 11x17 SCALE: 1/8"=1'-0"



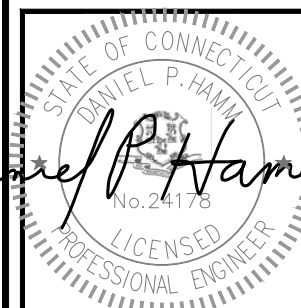
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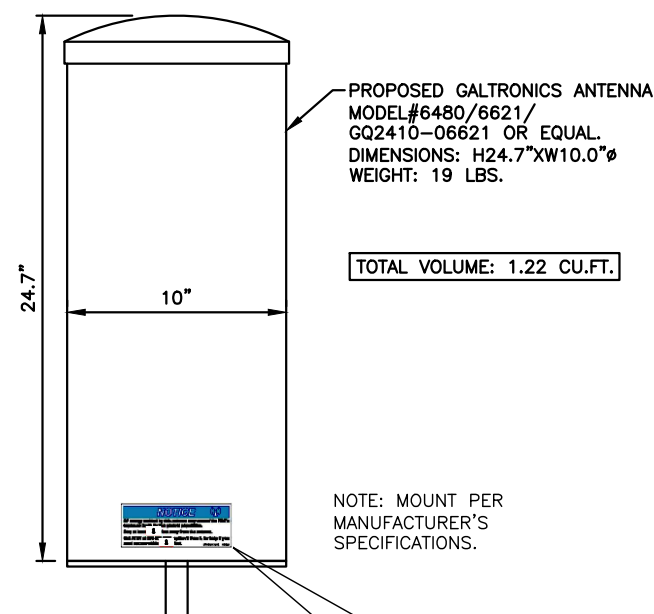
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SHEET TITLE

EQUIPMENT DETAILS

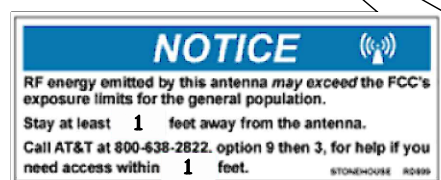
SHEET NUMBER

A-2



TOTAL VOLUME: 1.22 CU.FT.

NOTE: MOUNT PER MANUFACTURER'S SPECIFICATIONS.

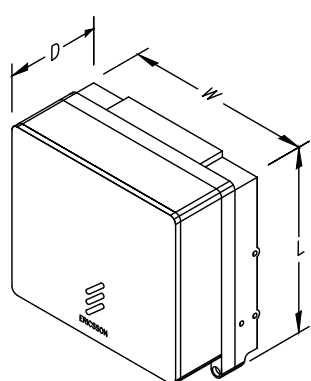


STONEHOUSE SIGNS INC. P/N RD899  
SIGN DIMENSIONS 2.5"x6.5"  
TWO NOTICE STICKERS MUST BE PLACED OPPOSITE EACH OTHER ON THE ANTENNA

**ANTENNA DETAIL**

SCALE: N.T.S

1  
A-2



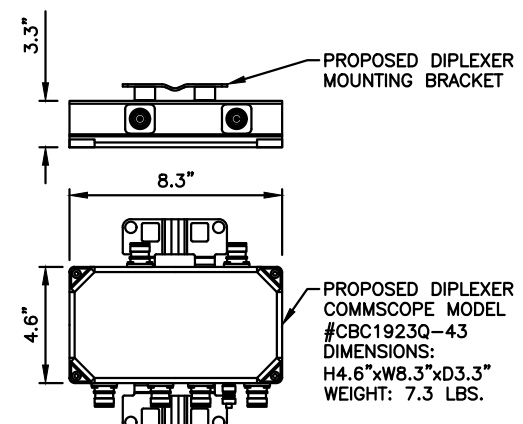
MODEL	QTY.	L	W	D	WGT.
4402	2	8.0"	8.0"	4.0"	11 LBS
2205	1	8.0"	8.0"	4.0"	11 LBS

NOTE: MOUNT PER MANUFACTURER'S SPECIFICATIONS.

**RRH DETAIL**

SCALE: N.T.S

2  
A-2

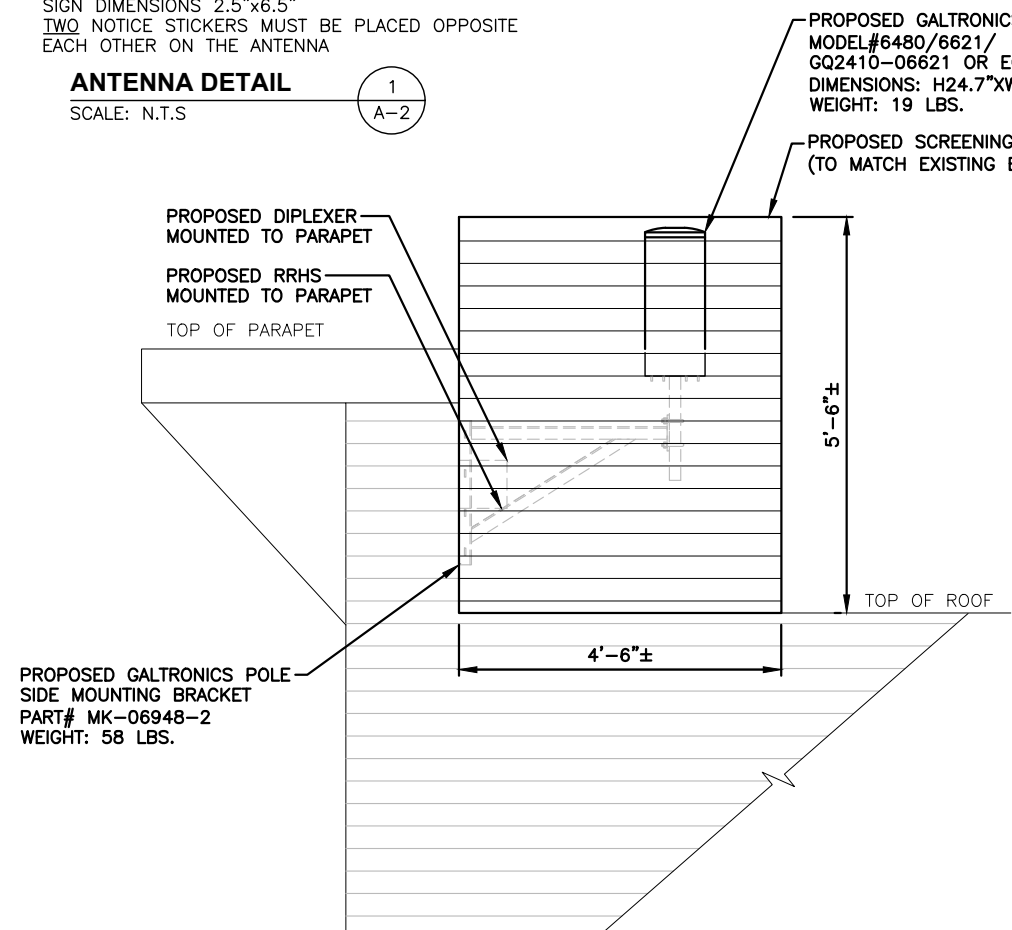


NOTE: MOUNT PER MANUFACTURER'S SPECIFICATIONS.

**DIPLEXER DETAIL (AS REQUIRED)**

SCALE: N.T.S

3  
A-2

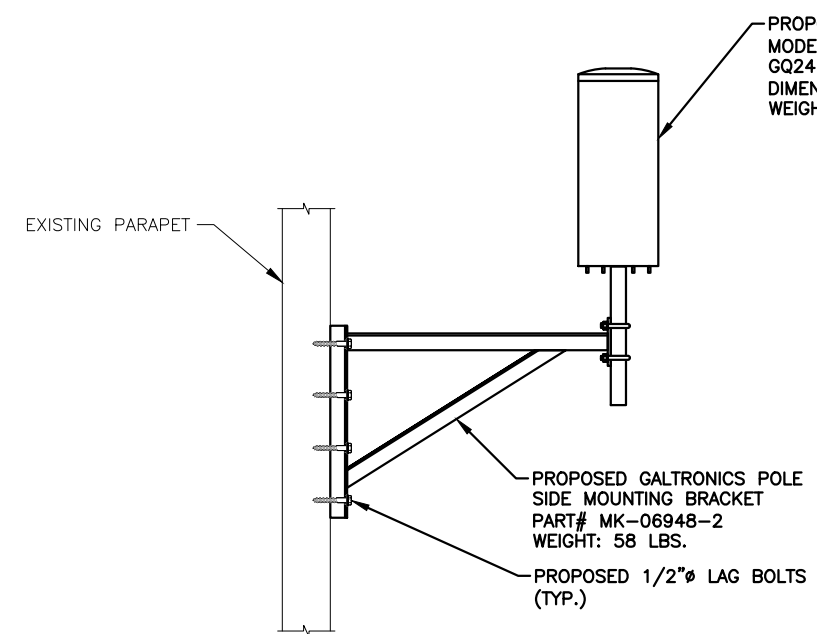


NOTE: MOUNT PER MANUFACTURER'S SPECIFICATIONS.

**ANTENNA MOUNT DETAIL**

SCALE: N.T.S

4  
A-2

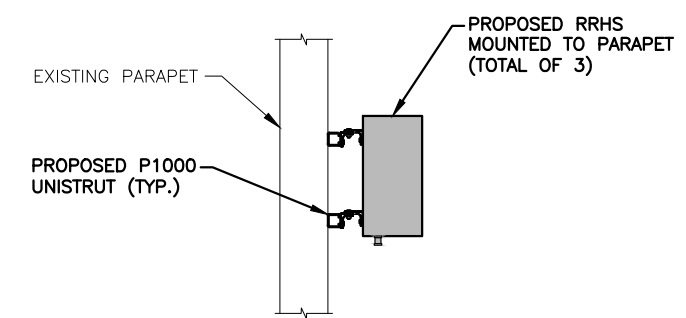


NOTE: MOUNT PER MANUFACTURER'S SPECIFICATIONS.

**PROPOSED ANTENNA MOUNTING DETAIL**

SCALE: N.T.S

5  
A-2



**PROPOSED RRHS MOUNTING DETAIL**

SCALE: N.T.S

6  
A-2



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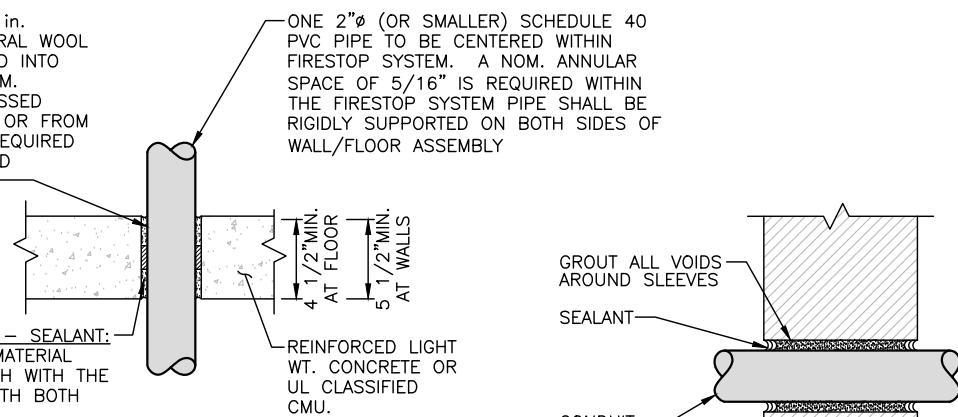
PENETRATION DETAILS

SHEET NUMBER

**A-3**

**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.

ONE 2"Ø (OR SMALLER) SCHEDULE 40 PVC PIPE TO BE CENTERED WITHIN FIRESTOP SYSTEM. A NOM. ANNULAR SPACE OF 5/16" IS REQUIRED WITHIN THE FIRESTOP SYSTEM PIPE SHALL BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL/FLOOR ASSEMBLY



**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.:**  
SPECSEAL SERIES SSS SEALANT  
OR SPECSEAL LCI SEALANT.

**UL SYSTEM NUMBER:** C-AJ-2057  
**F RATING - 2 HR.**

**PVC CONDUIT PENETRATION  
DETAIL IN CONCRETE OR MASONRY**

**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**

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.

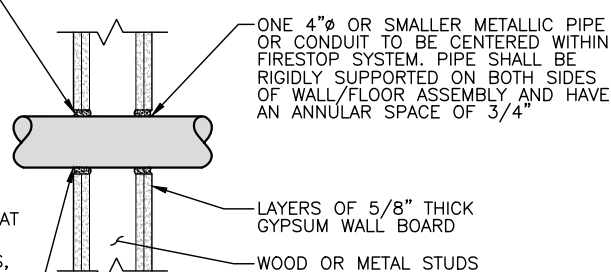
**FORMING MATERIAL:**  
MINERAL WOOL BATT INSULATION (MINIMUM 4.0 pcf) FIRMLY PACKED INTO THE OPENING AS A PERMANENT FORM; SEE TABLE FOR MINIMUM REQUIRED THICKNESS

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

**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.



**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 PENETRATING ITEM AND LAPPING 1 in. BEYOND 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.

**ALL CORES THROUGH ELECTRIC  
ROOMS TO BE FIRE-STOPPED.**

**USE FULL CONDUIT RUNS  
THROUGH PENETRATIONS**

**PENETRATION DETAILS**

SCALE: N.T.S



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

**UL SYSTEM NUMBER:** W-L-2093  
**F RATING - 1 & 2 HR.**

**SPECIFIED TECHNOLOGIES INC.:**  
SPECSEAL SERIES SSS SEALANT,  
SPECSEAL LCI SEALANT.

**PVC CONDUIT PENETRATION  
DETAIL IN GYPSUM WALLBOARD**

**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.



500 ENTERPRISE DRIVE, SUITE 3A  
ROCKY HILL, CT 06067



750 WEST CENTER STREET,  
SUITE# 301  
WEST BRIDGEWATER, MA 02379



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



*Daniel P. Hamm*

CHECKED BY: AT

APPROVED BY: DPH

SUBMITTALS

REV.	DATE	DESCRIPTION	BY
A	09/09/20	ISSUED FOR REVIEW	MR

CLUSTER AND NODE NUMBER:

CRAN\_RCTB\_DRBY\_004

SITE ID:

CRAN\_RCTB\_DRBY\_004

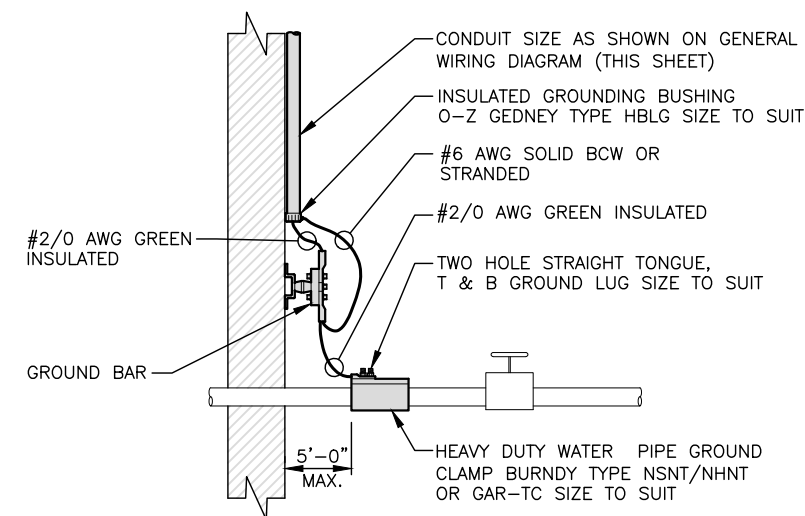
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132 GREENWOOD AVE.  
BETHEL, CT 06801  
FAIRFIELD COUNTY

SHEET TITLE

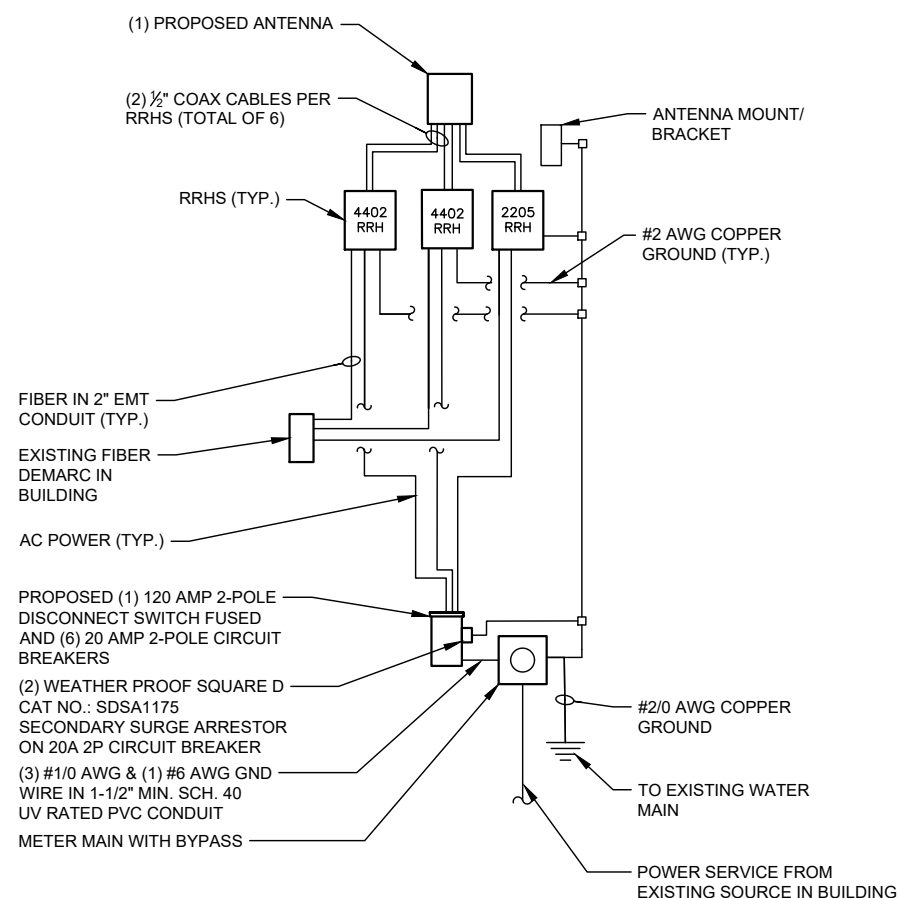
ELECTRICAL &  
GROUNDING DETAILS

SHEET NUMBER

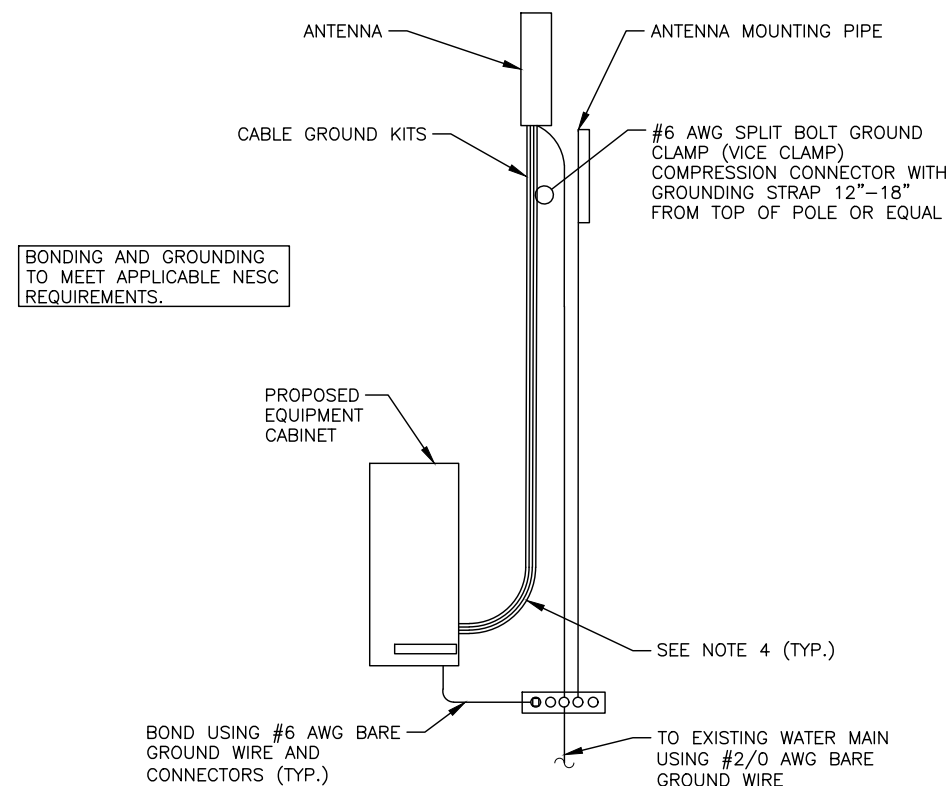
E-1



**WATER MAIN GROUNDING** 2  
SCALE: N.T.S. E-1

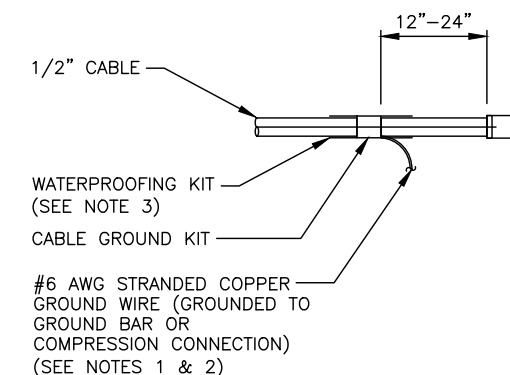


**GENERAL WIRING DIAGRAM** 1  
SCALE: N.T.S. E-1



BONDING AND GROUNDING TO MEET APPLICABLE NESC REQUIREMENTS.

**GROUNDING ONE LINE DIAGRAM** 3  
SCALE: N.T.S. E-1



- NOTES:
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR, OR COMPRESSION CONNECTION.
  - GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
  - WEATHERPROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.
  - MINIMUM BENDING RADIUS SHOULD BE 12 TIMES CONDUCTOR DIAMETER

**ANTENNA CABLE GROUND KIT** 4  
SCALE: N.T.S. E-1