



PORTLAND 6 ME

25 CHURCH AVE

PEAKS ISLAND, ME 04108



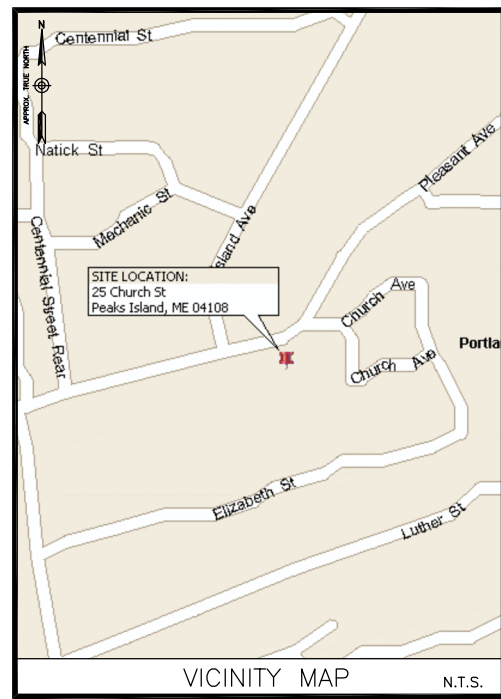
VERIZON WIRELESS
400 FRIBERG PARKWAY
WESTBOROUGH, MA 01581-3956

PORTLAND 6 ME

CONSTRUCTION DRAWINGS	
A	08/18/14 FOR COMMENT



Dewberry Engineers Inc.
280 SUMMER STREET
10TH FLOOR
BOSTON, MA 02210
PHONE: 617.695.3400
FAX: 617.695.3310



VICINITY MAP N.T.S.

ENGINEER
DEWBERRY ENGINEERS INC.
280 SUMMER ST.
10TH FLOOR
BOSTON, MA 02210
PHONE # (617) 695-3400
FAX # (617) 695-3310
CONTACT: MATTHEW F. TILDEN

SITE ACQUISITION
VERIZON WIRELESS
400 FRIBERG PARKWAY
WESTBOROUGH, MA 01581-3956
PHONE # (603) 505-0700
CONTACT: TODD WHITE

CONSULTANT TEAM

SITE NAME:
PORTLAND 6 ME

PROPERTY OWNER:
METHODIST EPISCOPAL SOCIETY
PEAKS ISLAND
JOHN F BRACKETT ET AL, TRUSTEES
25 CHURCH AVE
PEAKS ISLAND, ME 04108

APPLICANT
BELL ATLANTIC MOBILE OF MASSACHUSETTS
CORPORATION, LTD., D/B/A
VERIZON WIRELESS
400 FRIBERG PARKWAY
WESTBOROUGH, MA 01581-3956

CBL ID:
087 M009001
087 M007001
087 M010001

ELECTRIC UTILITY:
CENTRAL MAINE POWER
(800) 565-3181

TELEPHONE UTILITY:
FAIRPOINT COMMUNICATION
(866) 984-3001

COORDINATES*:
LATITUDE: 43° 39' 38.76" N
LONGITUDE: 70° 11' 45.06" W
*PER FAA-1A

PROJECT SUMMARY

SITE ADDRESS:
25 CHURCH AVE
PEAKS ISLAND, ME 04108

ZONING DISTRICT:
IR-2: ISLAND RESIDENTIAL

PROJECT DIRECTORY

THE SITE WILL CONSIST OF INSTALLING (6) PANEL ANTENNAS AND ASSOCIATED EQUIPMENT INSIDE THE EXISTING CHURCH STEEPLE AND REPLACING EXTERIOR LOUVERS WITH RF TRANSPARENT MATERIAL TO MATCH THE EXISTING LOUVERS. A 12'x15' EQUIPMENT ROOM AND DIESEL GENERATOR WILL BE INSTALLED AT GRADE. POWER AND TELCO WILL COME FROM EXISTING SOURCES ON SITE.

PROJECT DESCRIPTION

THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN OTHER CONDITIONS PERTAIN. REUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.

A.D.A. COMPLIANCE:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.

SHT. NO.	DESCRIPTION
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C-6	CONSTRUCTION DETAILS - III
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SHEET INDEX

DIRECTIONS FROM WESTBOROUGH:

TAKE MA-9 E/BOSTON WORCESTER TURNPIKE/TURNPIKE RD. MERGE ONTO I-495 N. MERGE ONTO I-95 N. KEEP LEFT TO CONTINUE MERGE ONTO I-95 N. KEEP RIGHT TO CONTINUE ON I-295 N. TAKE EXIT 7 FOR US 1/FRANKLIN ST. TURN RIGHT ONTO FRANKLIN ST. TURN LEFT ONTO MAINE STATE PIER. TURN RIGHT. TAKE THE PORTLAND-PEAKS ISLAND FERRY. CONTINUE STRAIGHT ONTO S PORTLAND-PEAKS ISLAND FERRY. CONTINUE ONTO WELCH ST. TURN LEFT ONTO ISLAND AVE. TURN RIGHT TO STAY ON ISLAND AVE. CONTINUE ONTO CHURCH AVE. THE SITE WILL BE ON THE RIGHT.



DRAWN BY: SK

REVIEWED BY: MFT

CHECKED BY: BBR

PROJECT NUMBER: 50002925

JOB NUMBER: 50062235

SITE ADDRESS

25 CHURCH AVE
PEAKS ISLAND, ME 04108

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

GENERAL CONSTRUCTION NOTES :

- ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, AND COMPLY WITH VERIZON WIRELESS SPECIFICATIONS.
- CONTRACTOR SHALL CONTACT "DIG SAFE" (888-344-7233) FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
- ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
- DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
- CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
- INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING.
- EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON WIRELESS CONSTRUCTION MANAGER.
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
- WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR WILL NOTIFY ENGINEER, VERIZON WIRELESS PROJECT CONSTRUCTION MANAGER, AND LANDLORD IMMEDIATELY.
- CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
- ALL ROOF WORK SHALL BE DONE BY A QUALIFIED AND EXPERIENCED ROOFING CONTRACTOR IN COORDINATION WITH ANY CONTRACTOR WARRANTING THE ROOF TO ENSURE THAT THE WARRANTY IS MAINTAINED.
- CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
- CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH LANDLORD AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
- CONTRACTOR SHALL FURNISH VERIZON WIRELESS WITH THREE AS-BUILT SETS OF DRAWINGS UPON COMPLETION OF WORK.
- ANTENNAS AND CABLES ARE TYPICALLY PROVIDED BY VERIZON WIRELESS. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON WIRELESS PROJECT MANAGER TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED BY VERIZON WIRELESS. ALL ITEMS NOT PROVIDED BY VERIZON WIRELESS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED BY VERIZON WIRELESS.
- PRIOR TO SUBMISSION OF BID, CONTRACTOR WILL COORDINATE WITH VERIZON WIRELESS PROJECT MANAGER TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY VERIZON WIRELESS. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON WIRELESS MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
- GENERAL CONTRACTOR SHALL HAVE A LICENSED HVAC CONTRACTOR START THE HVAC UNITS, SYNCHRONIZE THE THERMOSTATS, ADJUST ALL SETTINGS ON EACH UNIT ACCORDING TO VERIZON WIRELESS CONSTRUCTION MANAGER'S SPECIFICATIONS, AND THOROUGHLY TEST AND BALANCE EACH UNIT TO ENSURE PROPER OPERATION PRIOR TO TURNING THE SITE OVER TO OWNER.
- CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON WIRELESS SPECIFICATIONS AND REQUIREMENTS.
- CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- UNLESS OTHERWISE NOTED VERIZON WIRELESS SHALL PROVIDE ALL REQUIRED RF MATERIAL FOR CONTRACTOR TO INSTALL, INCLUDING ANTENNAS, TMA'S, BIAS-T'S, COMBINERS, PDU, DC BLOCKS, SURGE ARRESTORS, GPS ANTENNA, GPS SURGE ARRESTOR, COAXIAL CABLE.
- PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL VERIFY ALL EQUIPMENT TO BE PROVIDED BY VERIZON WIRELESS FOR INSTALLATION BY CONTRACTOR.
- ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON WIRELESS SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
- DO NOT CHANGE SIZE NOR SPACING OF STRUCTURAL ELEMENTS.
- DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- CONTRACTOR SHALL NOTIFY THE ENGINEER A MINIMUM OF 48 HOURS IN ADVANCE PRIOR TO CONSTRUCTION START, MORE SPECIFICALLY BEFORE; SEALING ANY FLOOR, WALL OR ROOF PENETRATION, FINAL UTILITY CONNECTIONS, POURING CONCRETE, BACKFILLING UTILITY TRENCHES AND STRUCTURAL POST OR MOUNTING CONNECTIONS, FOR ENGINEERING REVIEW AND INSPECTION.

GENERAL ELECTRICAL NOTES :

- SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
- CONTRACTOR SHALL PERFORM ALL VERIFICATION OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
- HEIGHTS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
- THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
- EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, J-BOX, SWITCH BOX, ETC., IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.)
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA AND NBFU.
- ALL CONDUIT INSTALLED MAY BE SURFACE MOUNTED UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY AND LOCAL CODES AND O.S.H.A.
- CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS AND PAY ALL REQUIRED FEES.
- COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
- ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE.
- PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
- ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
- USE T-TAP CONNECTIONS ON ALL MULTI-CIRCUITS WITH COMMON NEUTRAL CONDUCTOR FOR LIGHTING FIXTURE.
- ALL CONDUCTORS SHALL BE COPPER.
- ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES.
- PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
- IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, M PIPE RUNS, ETC., IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES.
- LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND, THEREFORE, MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.
- PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH SECTION NO. 4305 AND NO. 4304 OF THE U.B.C.
- WIRE AND CABLE CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM UNLESS SPECIFICALLY STATED OTHERWISE ON DRAWINGS.
- VERIFY ALL CONDUIT ROUTING W/OWNER REP. & VERIZON C.M.
- ALL MATERIALS SHALL BE U.L. LISTED.
- CONDUIT:
 - RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
 - ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
 - FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE, SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
 - CONDUIT RUNS MAY BE SURFACE MOUNTED IN CEILING OR WALLS UNLESS INDICATED OTHERWISE. CONDUIT INDICATED SHALL RUN PARALLEL OR AT RIGHT ANGLES TO CEILING, FLOOR OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH ARCHITECT PRIOR TO INSTALLING.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS.
- COORDINATE THE ELECTRICAL SERVICE WITH BUILDING OWNER.
- GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE OWNER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE. SUBMIT TEST REPORTS AND FURNISH TO DISPATCH COMMUNICATIONS ONE COMPLETE SET OF PRINTS SHOWING "INSTALLED WORK".
- UPON COMPLETION OF WORK, CONDUCT CONTINUITY, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
- ALL WALL PENETRATIONS SHALL BE FIRE STOPPED WITH FS-ONE HIGH PERFORMANCE INTUMESCENT FIRE STOP BY HILTI OR APPROVED EQUAL. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

STRUCTURAL STEEL NOTES:

- ALL STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIFICATION ASTM A123/A123M-00 UNLESS OTHERWISE NOTED.
- ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1 WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION. WHERE WELD LENGTH IS NOT INDICATED, USE FULL LENGTH WELD. AT THE COMPLETION OF ALL WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
- BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS (3/4" DIA.) SUPPLIED WITH A NUT AND WASHER UNDER TURNED END AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
- NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. GALVANIZED ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
- 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.
- USE PRECAUTIONS & PROCEDURES PER AWS D1.1 WHEN WELDING GALVANIZED METALS.
- TOUCHUP ALL DAMAGED GALVANIZED STEEL WITH VERIZON WIRELESS APPROVED COLD ZINC, "GALVANOX", "DRY GALV", "ZINC-IT", OR APPROVED EQUIVALENT, IN ACCORDANCE WITH MANUFACTURERS GUIDELINES. TOUCHUP DAMAGED NON GALVANIZED STEEL WITH SAME PAINT APPLIED IN SHOP OR FIELD.
- ALL PROPOSED STEEL SHALL CONFORM TO HIGH STRENGTH STEEL MATERIALS, ASTM A36 WITH A MINIMUM STRENGTH OF 36 KSI.
- ALL EXISTING BEAM AND COLUMN DIMENSIONS SHALL BE FIELD VERIFY BY CONTRACTOR PRIOR TO FABRICATION. ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN SHALL BE REPORTED TO DEWBERRY ENGINEER IMMEDIATELY.
- CONTRACTOR TO MAKE ALL NECESSARY SAFETY PRECAUTIONS AND SECURE ALL PERMITS REQUIRED FOR WELDING ON THE ROOF.

CONSTRUCTION NOTES:

- SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH UL LISTED D FIRE CODE APPROVED MATERIALS.
- REPAIR ANY DAMAGE DURING CONSTRUCTION TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CONSTRUCTION MANAGER AND LANDLORD.
- THE DOOR SHALL BE A STEELCRAFT STEEL UNIT, L-SERIES TYPE, OR APPROVED EQUAL, (1) 3'x7'. THE UNIT SHALL BE INSULATED AND WEATHER-STRIPPED, WITH ALUMINUM THRESHOLD, STANLEY 4 1/2" X 4 1/2" BALL BEARING HINGES (PART# FBB179), AND A "BEST" DEAD BOLT CYLINDRICAL LOCK OR AS SPECIFIED BY VERIZON WIRELESS REPRESENTATIVE. THE DOOR SHALL BE SET IN A 16 GAUGE STEEL FRAME. BOTH DOOR & FRAME SHALL BE FACTORY PAINTED AND SHALL HAVE A FIRE RATING OF 2 HOURS, MINIMUM. WWW.STEELCRAFT.COM
- FINISH ALL DRYWALL SCREWS OR NAILS, AND JOINTS, UNLESS OTHERWISE NOTED. PRIME DRYWALL AND EXTERIOR SURFACES WITH ONE COAT OF WHITE LATEX PRIMER. FINISH WITH TWO COATS OF INTERIOR SEMI-GLOSS LATEX PAINT. PAINT SHALL BE BY SHERWIN WILLIAMS, BENJAMIN MOORE, DUTCH BOY, OR EQUAL.
- CONTRACTOR SHALL INSTALL NEW RESILIENT FLOOR TILE WITHIN LIMITS OF PROPOSED VERIZON WIRELESS EQUIPMENT ROOM AS FOLLOWS: PREPARATION - CONTRACTOR SHALL INSTALL NEW RESILIENT FLOOR TILE WHICH SHALL BE ASTM F1066 12"x12"x1/8" THICK, ARMSTRONG IMPERIAL TEXTURE TILE #51836, COLOR-SHELTER WHITE. BASE - PROVIDE FS SS-W-40, TYPE II, 4" H. ROPPE VINYL COVE BASE, COLOR BLACK.
- TURN OVER ALL SALVAGEABLE BUILDING MATERIAL TO BUILDING MANAGER.
- ALL GYPSUM WALL BOARD SHALL BE TYPE GOLD BOND FIRE-SHIELD TYPE X HI-IMPACT WALLBOARD - FIRE RESISTANCE RATING - ANS/UL263, TO ACHIEVE 2 HOUR FIRE RESISTANCE USE DESIGN NO. U495 FOR MATERIALS AND SCREW SPACINGS.
- ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
- SHIM NEW SILLS, AS NECESSARY, TO LEVEL AND PLUMB WALL.
- ALL DISRUPTIVE WORK AND WORK WITHIN TENANT SPACES TO BE COORDINATED WITH BUILDING REPRESENTATIVE.
- ALL ROOF PENETRATIONS SHALL BE RESTORED TO MAINTAIN ALL ROOF WARRANTIES AND ENSURE A PERMANENT WATERPROOF SEAL.



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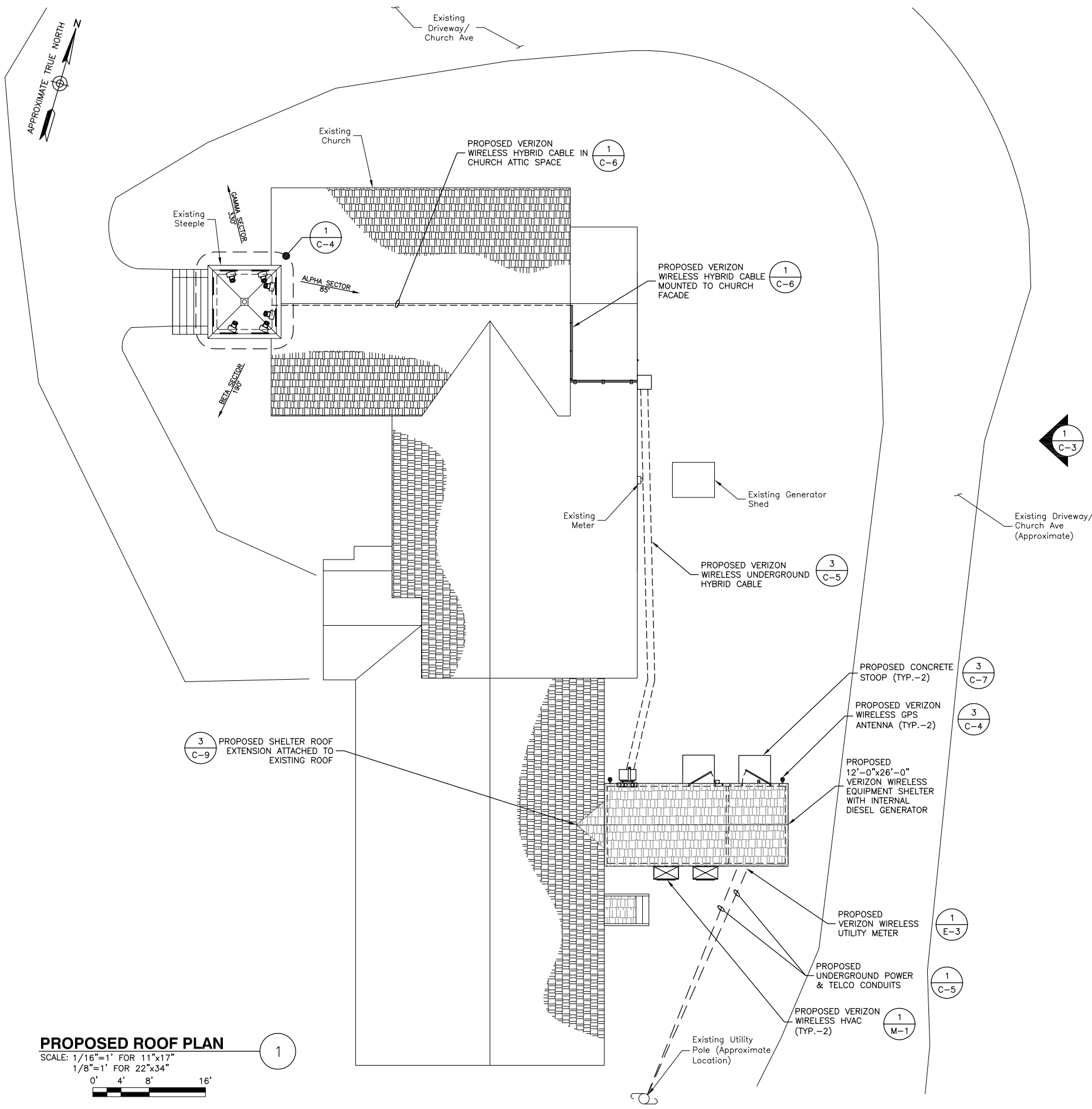
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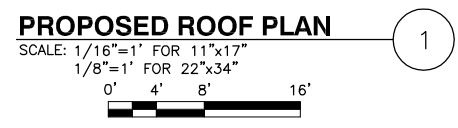
GENERAL NOTES

SHEET NUMBER

G-1



- NOTES:**
- SOME EXISTING & PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
 - NORTH SHOWN AS APPROXIMATE.
 - PLAN BASED ON SITE VISIT BY DEWBERRY ENGINEERS INC. ON 11-05-13.



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SHEET TITLE	PROPOSED ROOF PLAN
SHEET NUMBER	

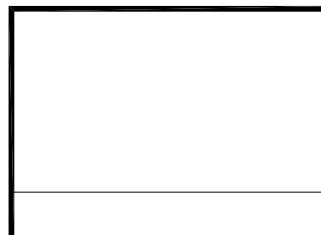
C-2

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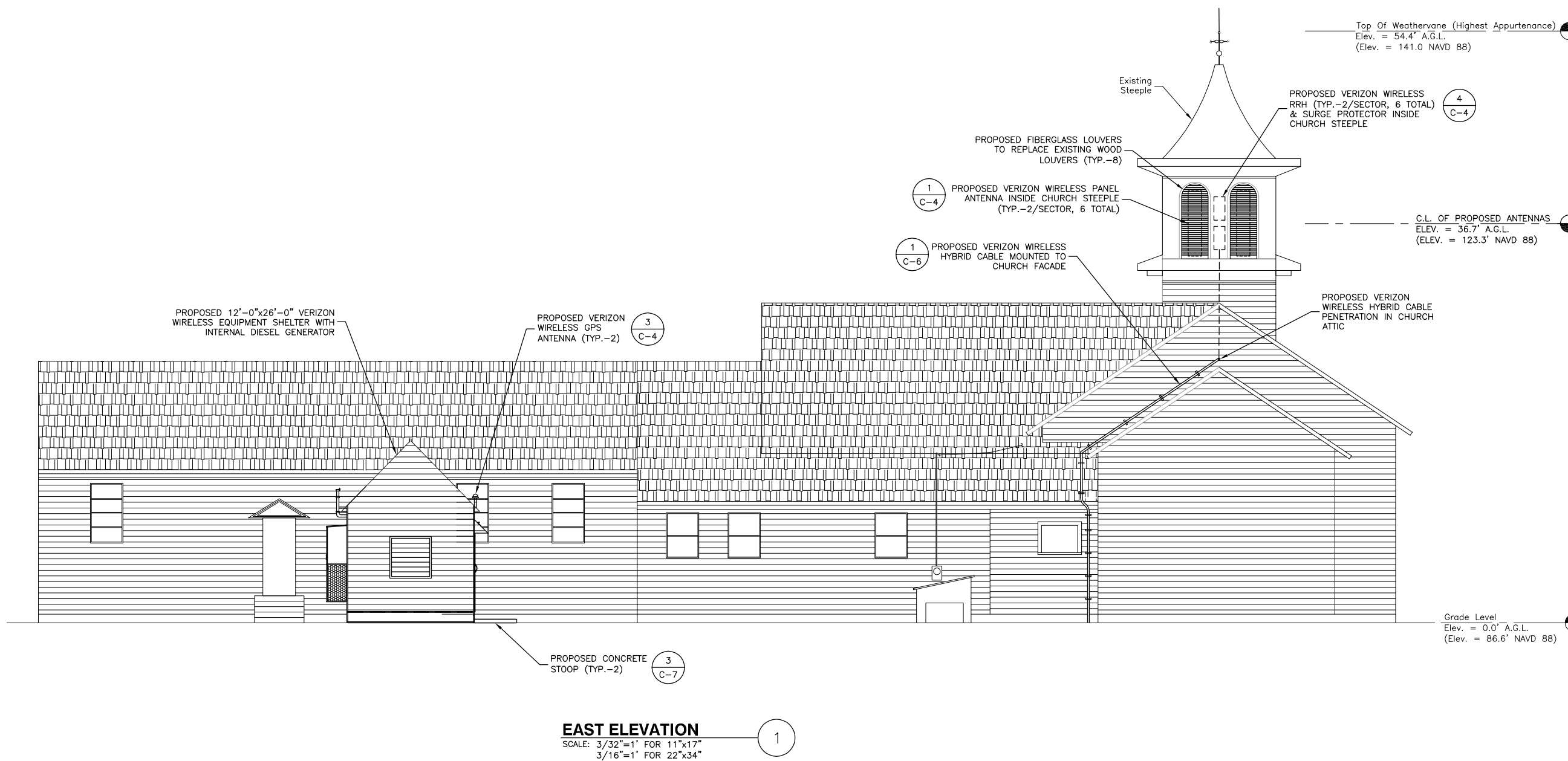
25 CHURCH AVE
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SHEET TITLE

EAST ELEVATION

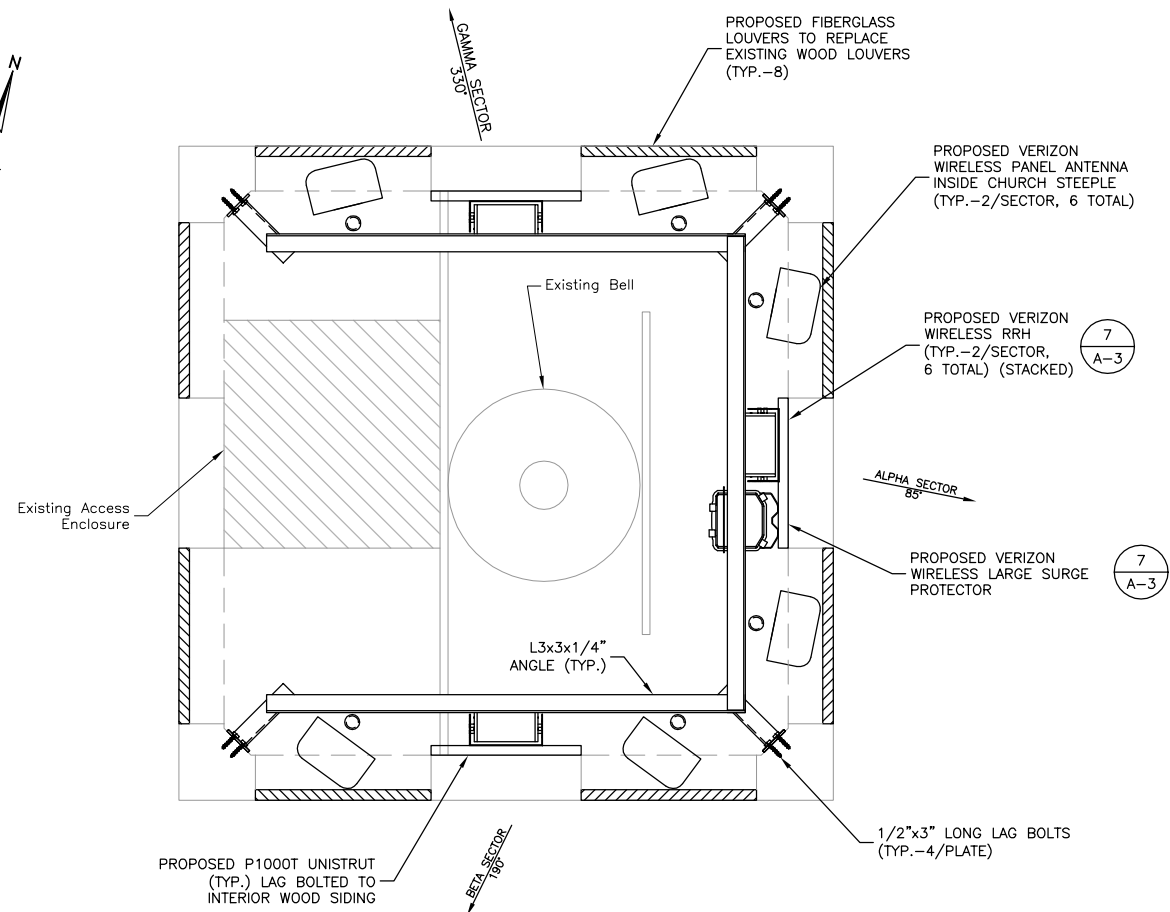
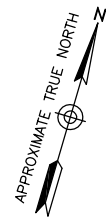
SHEET NUMBER

C-3

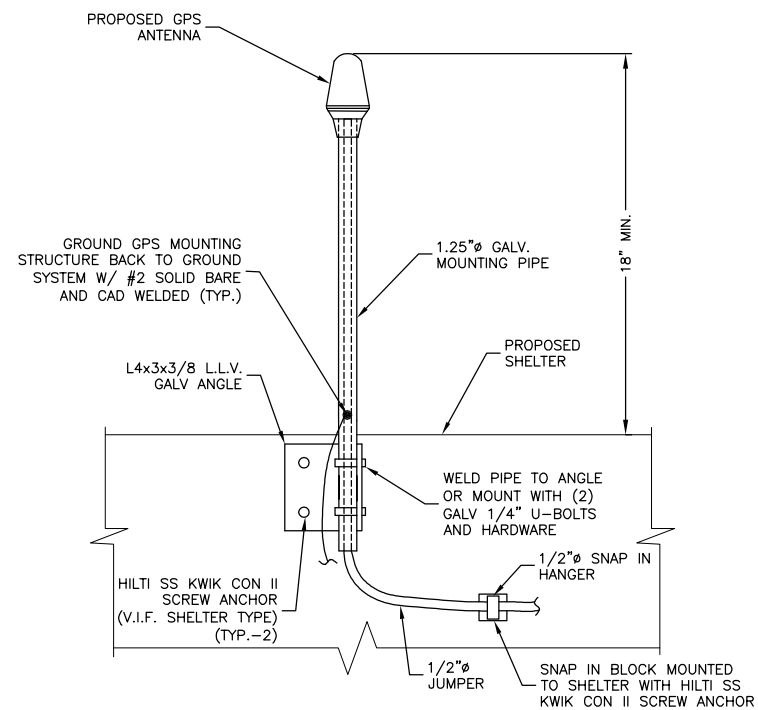


EAST ELEVATION
SCALE: 3/32"=1' FOR 11"x17"
3/16"=1' FOR 22"x34"

- NOTES:**
- SOME EXISTING & PROPOSED INFORMATION NOT SHOWN FOR CLARITY.
 - A.G.L. - ABOVE GROUND LEVEL
C.L. - CENTER LINE

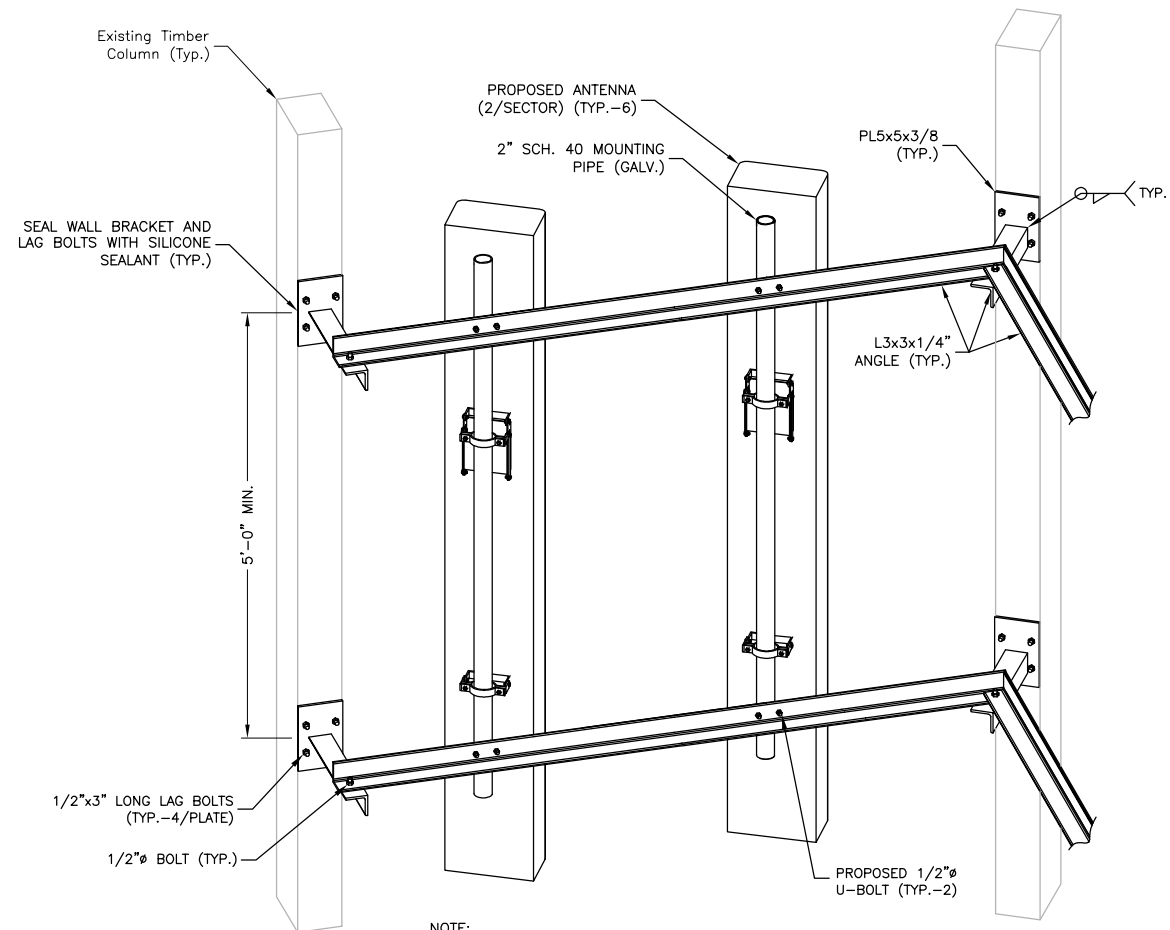


STEEPLE PLAN
 SCALE: 1/4"=1' FOR 11"x17" 4"
 1/2"=1' FOR 22"x34" 4"
 2



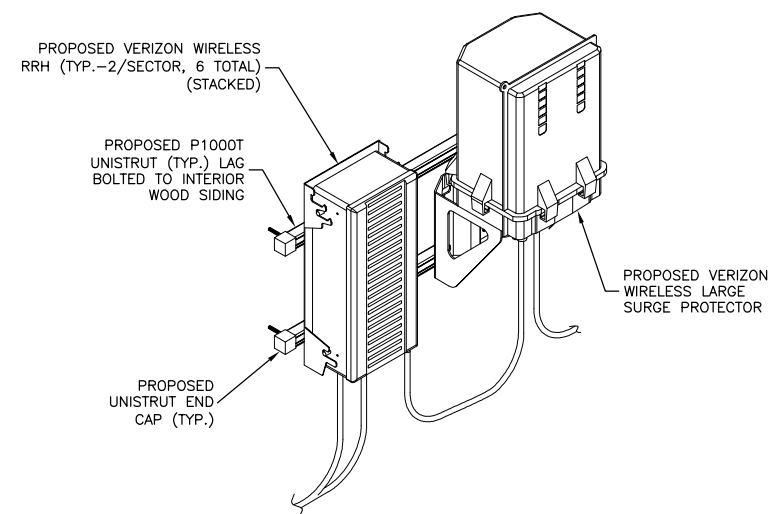
- GPS ANTENNA NOTES:**
1. GROUND ANTENNAS AND MOUNTS PER MANUFACTURER'S RECOMMENDATIONS AND VERIZON WIRELESS STANDARDS.
 2. SEAL ALL WALL PENETRATIONS WITH SILICONE SEALANT.

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



- NOTE:**
1. RRH & SURGE NOT SHOWN FOR CLARITY. SEE DETAIL 4 ON THIS SHEET FOR MOUNTING DETAILS.

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



- NOTE:**
1. DETAIL SHOWN IS SCHEMATIC. ACTUAL CONFIGURATION OF EQUIPMENT VARIES PER SECTOR. ONLY (1) RRH SHOWN FOR CLARITY.

RRH & SURGE ARRESTOR MOUNTING DETAILS
 SCALE: N.T.S.
 4



VERIZON WIRELESS
 400 FRIBERG PARKWAY
 WESTBOROUGH, MA 01581-3956

PORTLAND 6 ME

CONSTRUCTION DRAWINGS

A	08/18/14 FOR COMMENT



Dewberry Engineers Inc.
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 10TH FLOOR
 BOSTON, MA 02210
 PHONE: 617.695.3400
 FAX: 617.695.3310

DRAWN BY:	SK
REVIEWED BY:	MFT
CHECKED BY:	BBR
PROJECT NUMBER:	50002925
JOB NUMBER:	50062235
SITE ADDRESS	

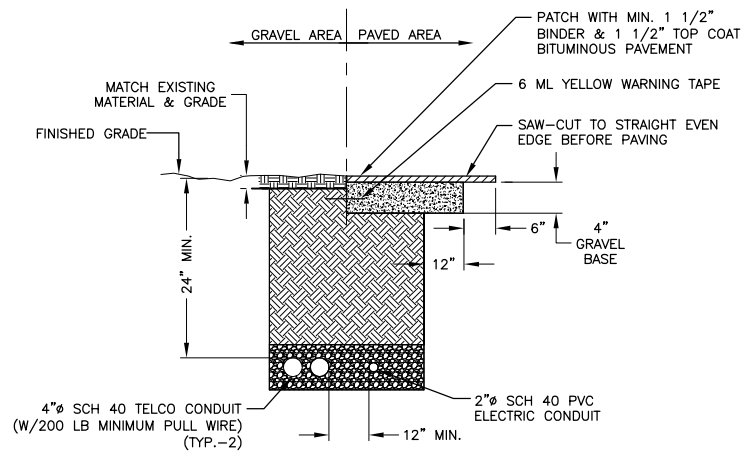
25 CHURCH AVE
 PEAKS ISLAND, ME 04108

SHEET TITLE

CONSTRUCTION
 DETAILS - 1

SHEET NUMBER

C-4



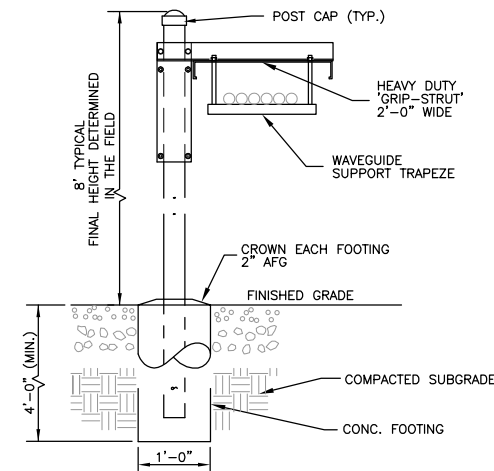
NOTES:

1. IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL.
2. IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL. COMPACT IN 8" LIFTS. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. CONTRACTOR TO VERIFY LOCATION OF EXISTING U/G UTILITIES PRIOR TO DIGGING.
3. IF CURRENT AS-BUILT DRAWINGS ARE NOT AVAILABLE CONTRACTOR SHALL HAND DIG U/G TRENCHING.
4. CONCRETE ENCASE CONDUIT WHEN TRENCHING UNDER SITE ACCESS ROAD.

JOINT SERVICE TRENCH BURIED CONDUIT (ELECTRIC/TELEPHONE)

SCALE: N.T.S.

1



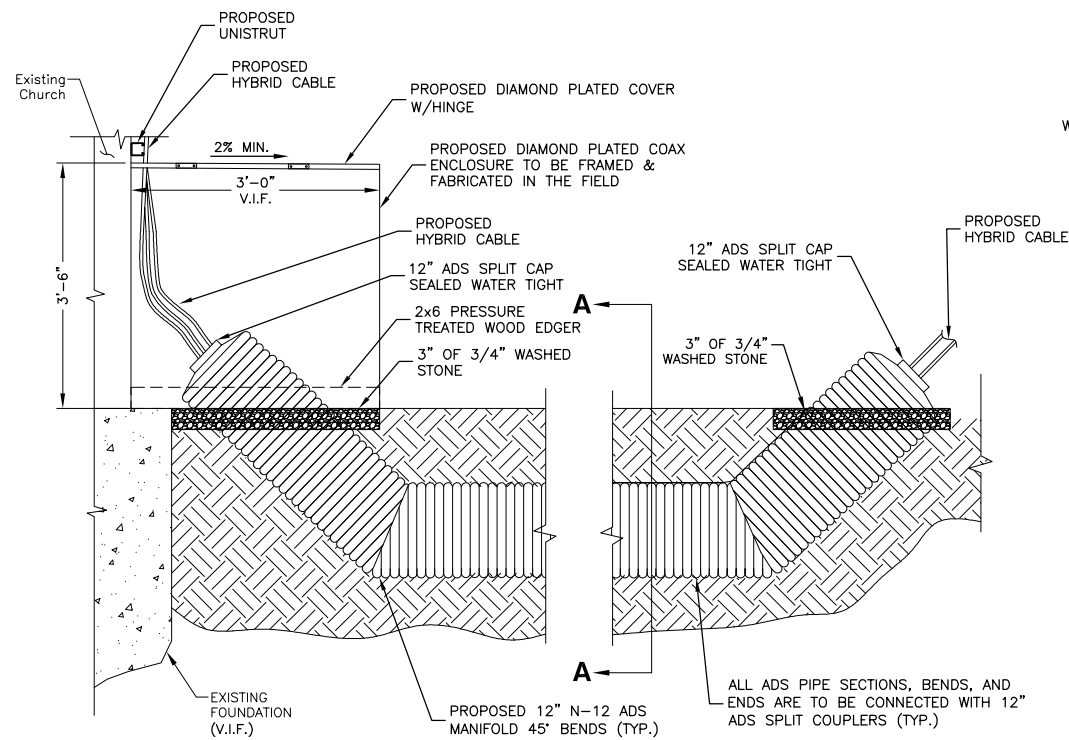
NOTES:

1. ICE BRIDGE SHALL BE SITE PRO GRIP STRUT TRANSMISSION LINE BRIDGE KIT (P/N: IB24B-T3) OR APPROVED EQUAL.
2. ALL COMPONENTS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
3. CONTRACTOR SHALL DETERMINE REQUIRED QUANTITY OF ALL ICE BRIDGE COMPONENTS.
4. SNAP-IN HANGERS, SPLICE KITS, HINGE KITS, EXTENSION KITS, STIFFENERS, AND OTHER MISCELLANEOUS HARDWARE SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED.
5. ICE BRIDGE SHALL BE ROUTED TO ACCOMMODATE THE MINIMUM BENDING RADIUS OF THE COAXIAL CABLE.
6. ICE BRIDGE COMPONENTS SHOWN ARE SCHEMATIC, CONSULT MANUFACTURER FOR EXACT AND CURRENT SPECIFICATIONS.

ICE BRIDGE DETAIL

SCALE: N.T.S.

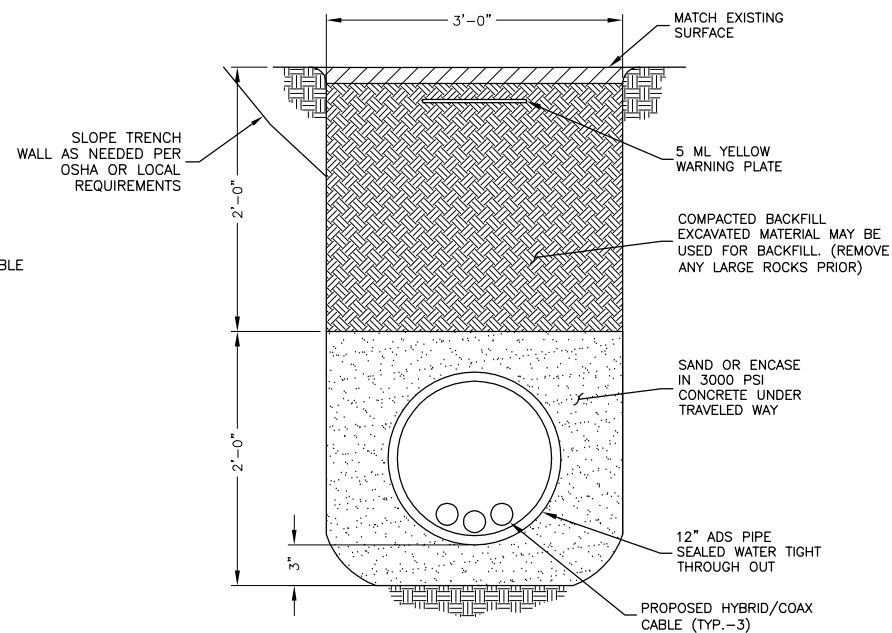
2



BURIED COAX CHASE DETAIL

SCALE: N.T.S.

3



NOTES:

1. MAINTAIN REQUIRED HYBRID CABLE BEND RADIUS.
2. DO NOT REUSE ORGANIC OR DELETERIOUS MATERIALS OR LARGE ROCKS FOR BACK FILL.
3. CONTACT DIG SAFE PRIOR TO TRENCHING.

COAX CHASE SECTION A-A

SCALE: N.T.S.

4



VERIZON WIRELESS
400 FRIBERG PARKWAY
WESTBOROUGH, MA 01581-3956

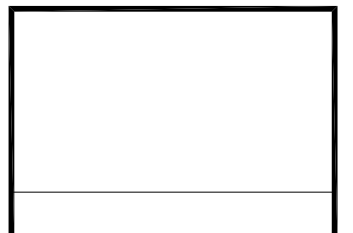
PORTLAND 6 ME

CONSTRUCTION DRAWINGS

A	08/18/14	FOR COMMENT



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CHECKED BY:	BBR
PROJECT NUMBER:	50002925
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SITE ADDRESS	

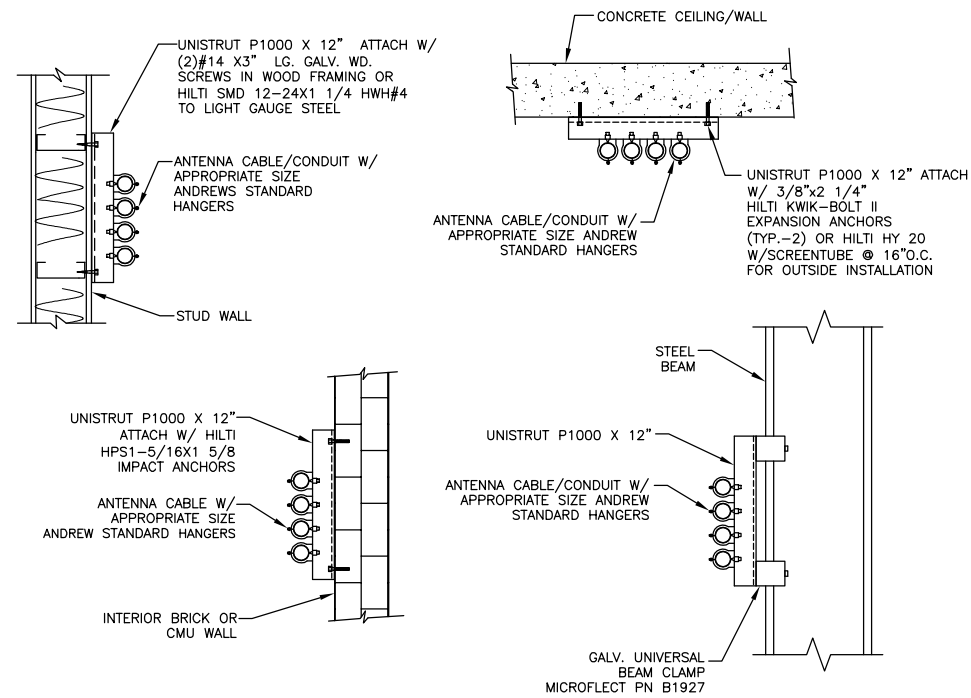
25 CHURCH AVE
PEAKS ISLAND, ME 04108

SHEET TITLE

CONSTRUCTION
DETAILS - II

SHEET NUMBER

C-5



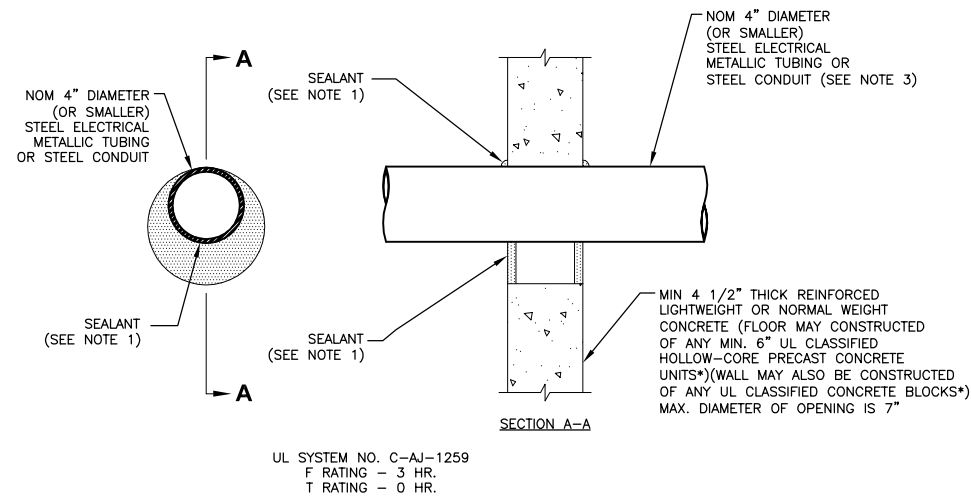
NOTES:

1. ALL COAX SUPPORT SPACING: 4'-0" MAX.
2. ALL CONDUIT SUPPORT SPACING: 10'-0" MAX.

CABLE/CONDUIT SUPPORT

SCALE: N.T.S.

1



UL SYSTEM NO. C-AJ-1259
F RATING - 3 HR.
T RATING - 0 HR.

NOTES:

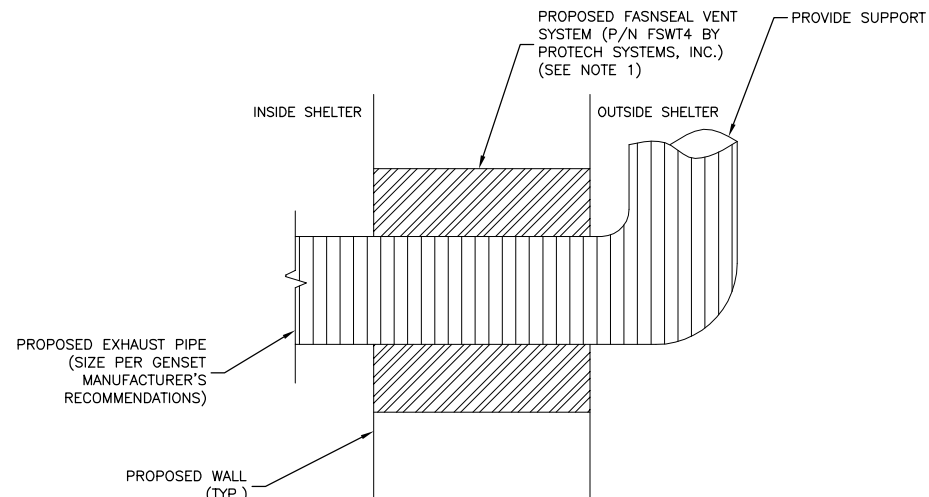
1. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN. 1/2" THICKNESS OF FILL MATERIAL APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF FLOOR OR WALL. AT THE POINT CONTACT LOCATION BETWEEN PENETRATING ITEM AND CONCRETE, A MIN. 1/4" THICK BEAD OF FILL MATERIAL SHALL BE APPLIED AT THE CONCRETE/ PENETRATING ITEM INTERFACE ON BOTH SIDES OF FLOOR OR WALL.
2. FORMING MATERIAL - (OPTIONAL, NOT SHOWN) - MINERAL WOOL BATT PACKING MATERIAL OR POLYURETHANE BACKER ROD FITTED INTO OPENING AND RECESSED FROM FLOOR OR WALL SURFACES AS REQUIRED TO ACCOMMODATE THICKNESS OF FILL MATERIAL.
3. ONE CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN THE CONDUIT AND THE PERIPHERY OF THE OPENING SHALL BE A MIN. OF 0" (POINT OF CONTACT) TO A MAX. OF 3". CONDUIT TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.

* BEARING THE UL CLASSIFICATION MARK.

CORING DETAIL

SCALE: N.T.S.

4



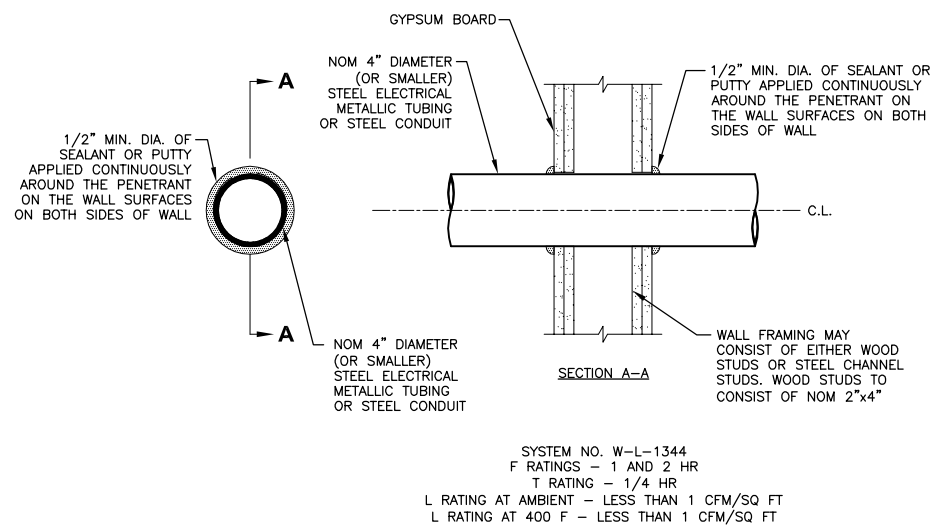
NOTE:

1. INSTALL WALL THIMBLE SYSTEMS PER MANUFACTURER'S RECOMMENDATIONS.

WALL THIMBLE INSTALLATION

SCALE: N.T.S.

3



SYSTEM NO. W-L-1344
F RATINGS - 1 AND 2 HR
T RATING - 1/4 HR

L RATING AT AMBIENT - LESS THAN 1 CFM/SQ FT
L RATING AT 400 F - LESS THAN 1 CFM/SQ FT

NOTES:

1. THE 1 AND 2 HOUR FIRE RATED GYPSUM WALL BOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS & MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL & PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY.
2. 5" DIAMETER OPENING MAX.

SECTION - THROUGH PENETRATION FIRESTOP SYSTEM

SCALE: N.T.S.

5



VERIZON WIRELESS
400 FRIBERG PARKWAY
WESTBOROUGH, MA 01581-3956

PORTLAND 6 ME

CONSTRUCTION DRAWINGS

A	08/18/14	FOR COMMENT



Dewberry Engineers Inc.

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DRAWN BY: SK

REVIEWED BY: MFT

CHECKED BY: BBR

PROJECT NUMBER: 50002925

JOB NUMBER: 50062235

SITE ADDRESS

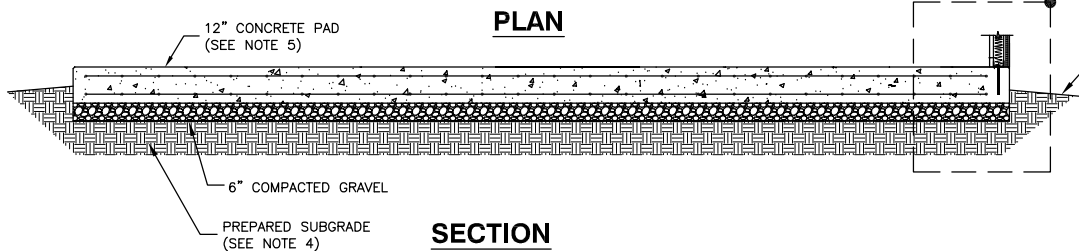
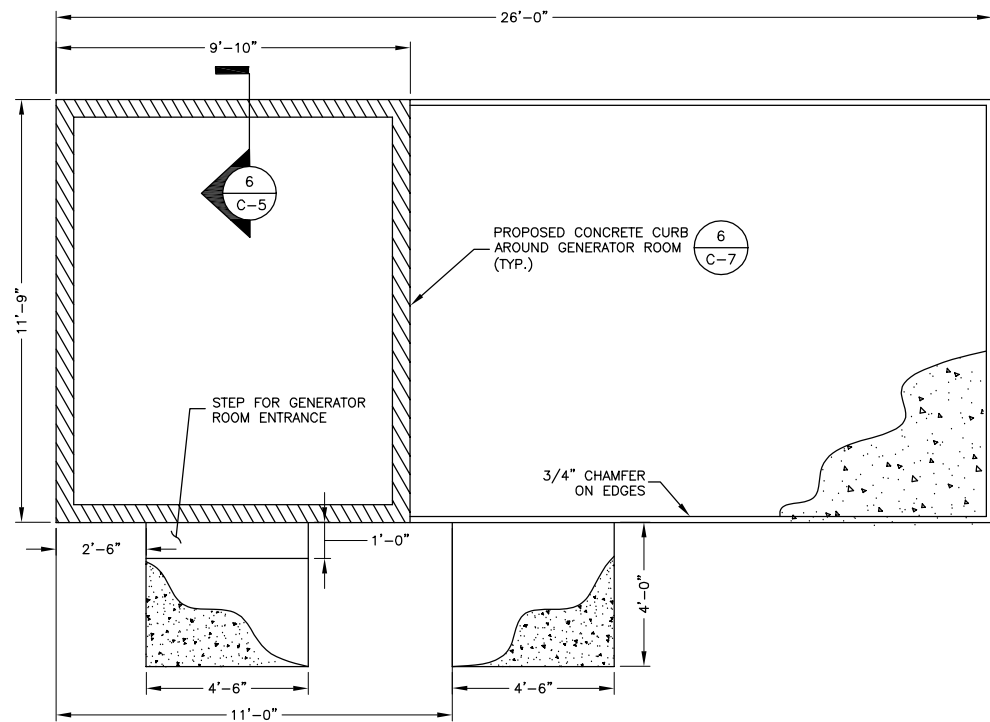
25 CHURCH AVE
PEAKS ISLAND, ME 04108

SHEET TITLE

CONSTRUCTION
DETAILS - III

SHEET NUMBER

C-6



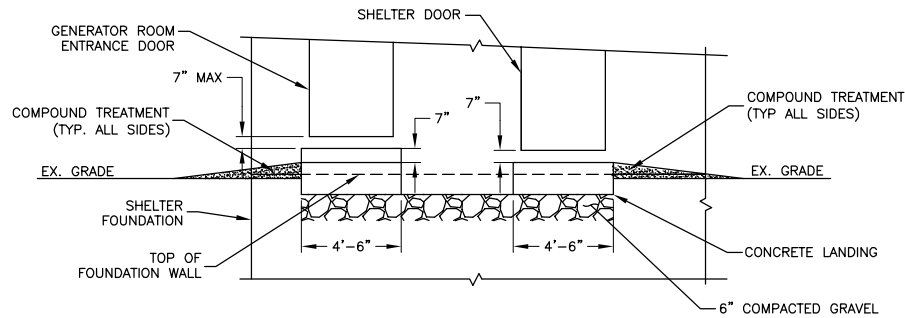
- NOTES:**
- CONTRACTOR TO VERIFY FINAL SHELTER DIMENSIONS & DOOR LOCATIONS PRIOR TO CONSTRUCTION OF FOUNDATION.
 - GRADE SHALL SLOPE AWAY FROM THE CONCRETE PAD TO ALLOW FOR PROPER WATER RUN OFF.
 - BEARING STRATA MEDIUM TO DENSE INSET GRANULAR MATERIAL OR COMPACTED GRAVEL FILL. 95% COMPACTION.
 - SUBGRADED AND FILL SHALL CONSIST OF CLEAN SOIL. NO DELETERIOUS MATERIALS OR ORGANICS TO BE USED.
 - IF BEDROCK IS ENCOUNTERED AT A SHALLOW DEPTH, SEE DETAIL 5 THIS SHEET.

CONCRETE PAD FOUNDATION
SCALE: 3/16"=1' FOR 11"x17"
3/8"=1' FOR 22"x34"

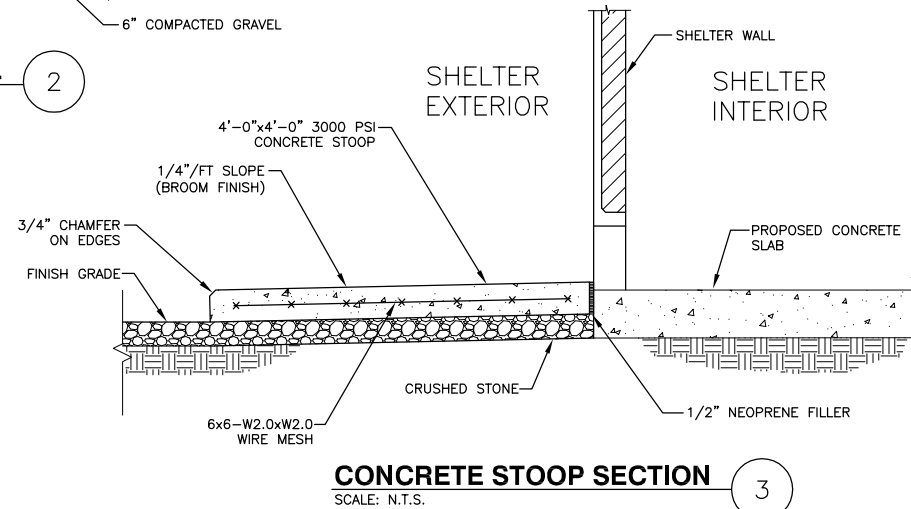


SHELTER CONCRETE NOTES:

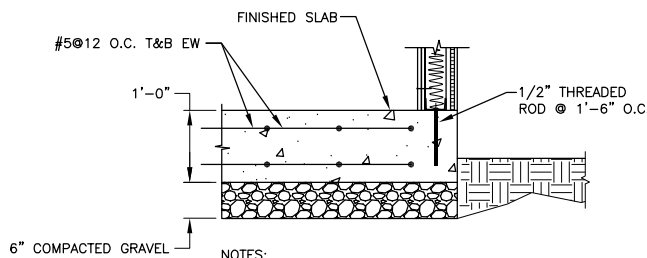
- FOUNDATION TO BE PLACED IN SUITABLE SOIL WITH A MINIMUM ALLOWABLE DESIGN BEARING CAPACITY OF 3000 P.S.F. IF SITE CONDITIONS VARY FROM THOSE STATED ABOVE CONTRACTOR TO NOTIFY THE CONSTRUCTION MANAGER AND THE ENGINEER.
- FOUNDATION SHALL BE DETAILED, FABRICATED AND INSTALLED ACCORDING TO ACI-318.
- COLD WEATHER/HOT WEATHER CONCRETE PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 305 AND 306.
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
- REINFORCING BARS SHALL CONFORM TO ASTM-A615 GRADE 60 SPECIFICATIONS AND BE DETAILED IN ACCORDANCE WITH ACI-318.
- REMOVE ALL ORGANIC MATERIAL PRIOR TO PLACEMENT OF STONE. IF FILLING IS REQUIRED, BACKFILL AND COMPACT WITH WELL-DRAINING GRAVEL.
- IF SOUND ROCK IS ENCOUNTERED AT LESS THAN THE SPECIFIED FOUNDATION DEPTH, USE ALTERNATIVE FOUNDATION, SEE DETAIL 5.
- CONTRACTOR TO PROVIDE PHOTOS OF REBAR PRIOR TO FILLING CONCRETE.
- SEE CONCRETE FOUNDATION & SHELTER NOTES ON SHEET G-1.



CONCRETE LANDING DETAIL
SCALE: N.T.S.

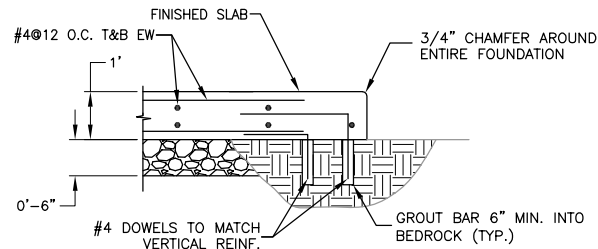


CONCRETE STOOP SECTION
SCALE: N.T.S.

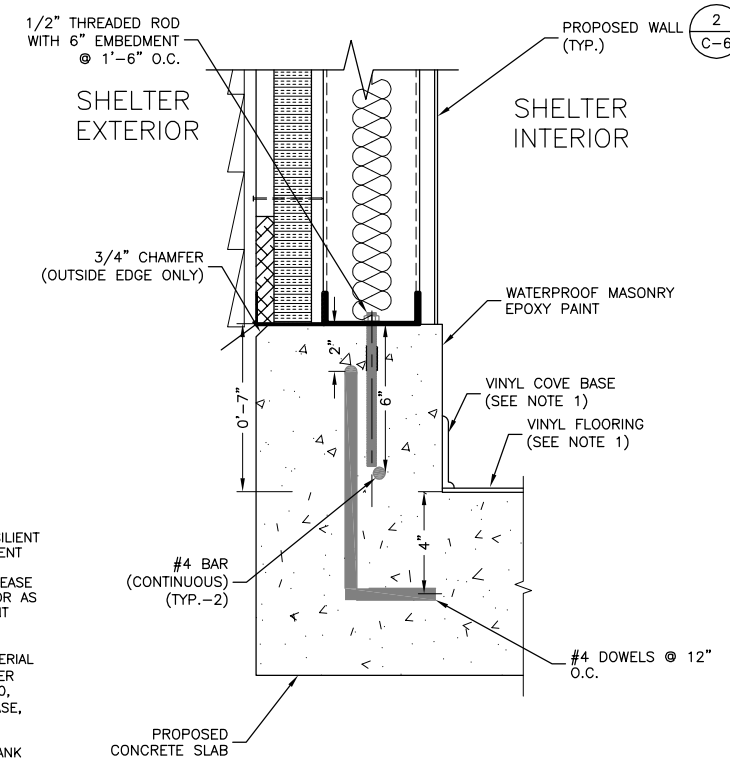


FOUNDATION WALL & SLAB DETAIL
SCALE: 3/8"=1' FOR 11"x17"
3/4"=1' FOR 22"x34"

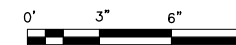
- NOTES:**
- BEARING STRATA MEDIUM TO DENSE INSET GRANULAR MATERIAL OR COMPACTED GRAVEL FILL. 95% COMPACTION. FREE OF DELETERIOUS OR ORGANIC MATERIAL.
 - MAINTAIN 3" MIN. COVER ON ALL STEEL REINFORCEMENT.



FOUNDATION SLAB DETAIL @ BEDROCK
SCALE: 3/8"=1' FOR 11"x17"
3/4"=1' FOR 22"x34"



CONCRETE CURB DETAIL - SECTION
SCALE: 1 1/2"=1' FOR 11"x17"
3"=1' FOR 22"x34"



VERIZON WIRELESS
400 FRIBERG PARKWAY
WESTBOROUGH, MA 01581-3956

PORTLAND 6 ME

CONSTRUCTION DRAWINGS

A 08/18/14 FOR COMMENT



Dewberry Engineers Inc.
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REVIEWED BY: MFT

CHECKED BY: BBR

PROJECT NUMBER: 50002925

JOB NUMBER: 50062235

SITE ADDRESS

25 CHURCH AVE
PEAKS ISLAND, ME 04108

SHEET TITLE

FOUNDATION DETAILS

SHEET NUMBER

C-7

PORTLAND 6 ME

CONSTRUCTION DRAWINGS

A	08/18/14 FOR COMMENT

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25 CHURCH AVE
PEAKS ISLAND, ME 04108

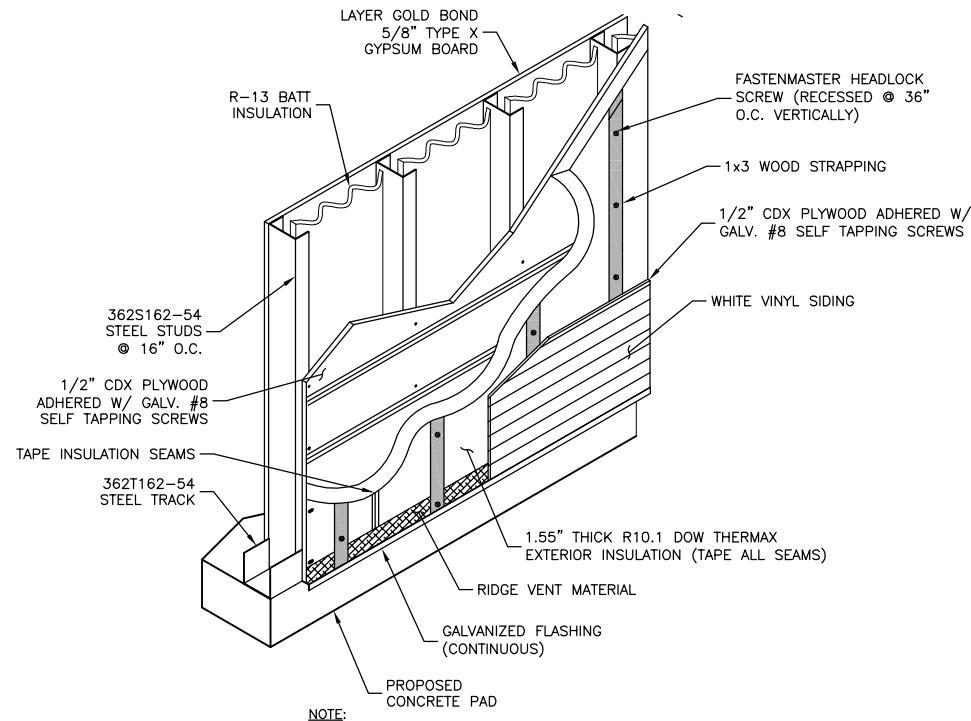
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WALL SECTION DETAILS

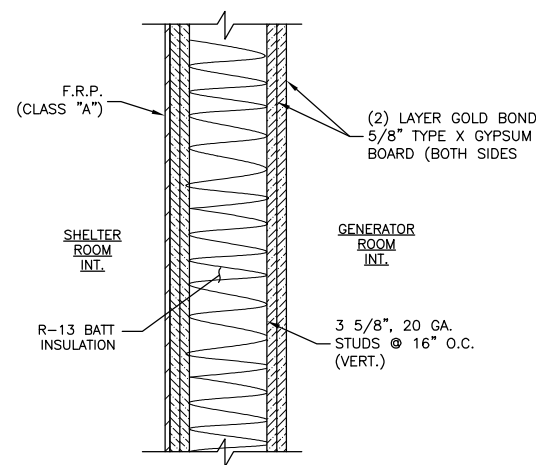
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CONSTRUCTION NOTES:

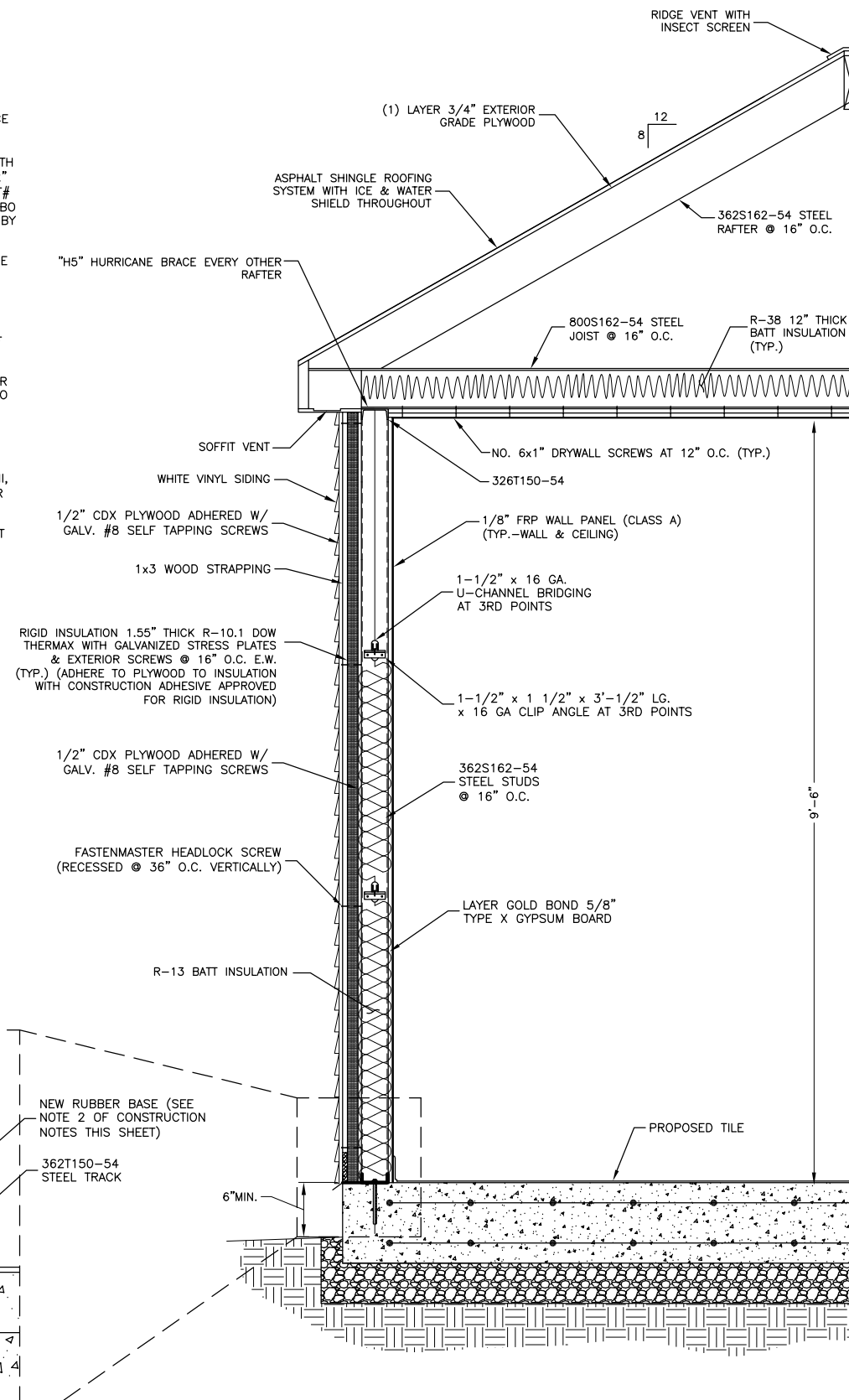
- DOORS SHALL BE A STEELCRAFT STEEL UNIT, L-SERIES TYPE, OR APPROVED EQUAL, (1) 3'X7' (EQUIPMENT ENTRANCE DOOR) & (1) 4'X7' (GENERATOR ENTRANCE DOOR). UNITS SHALL BE INSULATED AND WEATHER-STRIPPED, WITH ALUMINUM THRESHOLD, STANLEY 4 1/2" X 4 1/2" BALL BEARING HINGES (PART# FBB179), AND LOCK PUSHBUTTON COMBO SIMPLEX, LOCATION TO BE SPECIFIED BY VERIZON REPRESENTATIVE. THE DOOR SHALL BE SET IN A 18 GAUGE STEEL FRAME. BOTH DOOR & FRAME SHALL BE FACTORY PAINTED AND SHALL HAVE A FIRE RATING OF 2 HOURS, MINIMUM. WWW.SECURITYTECHNOLOGIES.COM
- CONTRACTOR SHALL INSTALL NEW RESILIENT FLOOR TILE WITHIN LIMITS OF EQUIPMENT ROOM AS FOLLOWS:
PREPARATION - CONTRACTOR SHALL CLEAN AND DEGREASE CONCRETE FLOOR AND PREPARE FLOOR AS NECESSARY TO RECEIVE NEW RESILIENT FLOOR TILE. FLOOR TILE - NEW VCT FLOOR TILE SHALL BE ASTM F1066 12"x12"x1/8" THICK, ARMSTRONG IMPERIAL TEXTURE TILE #51836, COLOR-SHELTER WHITE. BASE - PROVIDE FS SS-W-40, TYPE II, 4" H. ROPPE VINYL COVE BASE, COLOR BLACK.
- BUILDING AREA IS 312± S.F. NO FROST PROTECTION IS REQUIRED.



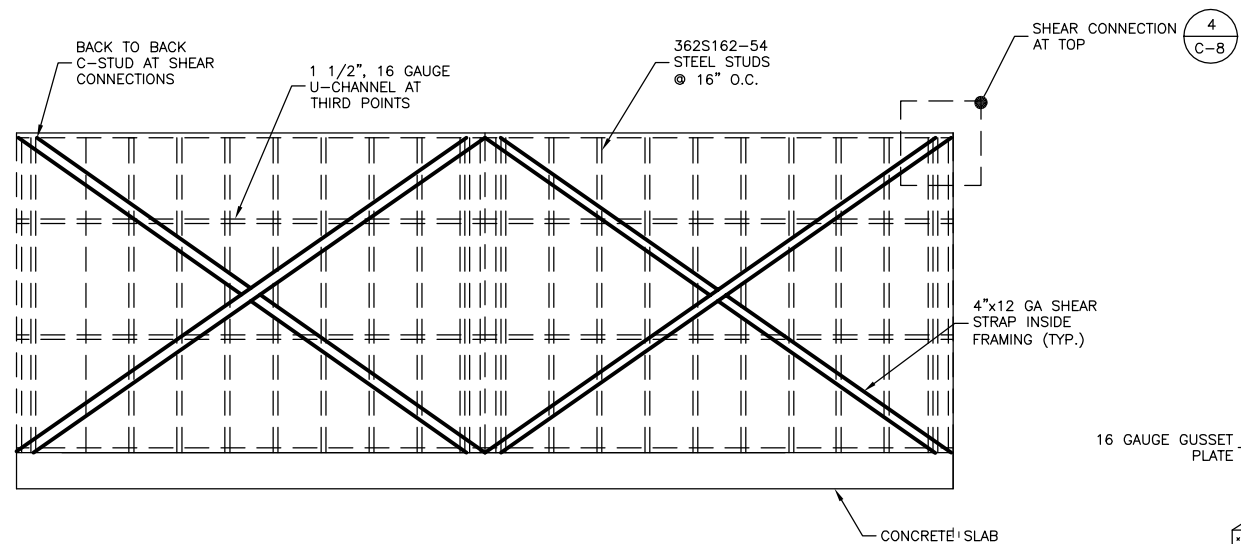
EXTERIOR WALL SECTION
SCALE: N.T.S.



PARTITION WALL DETAIL
SCALE: N.T.S.



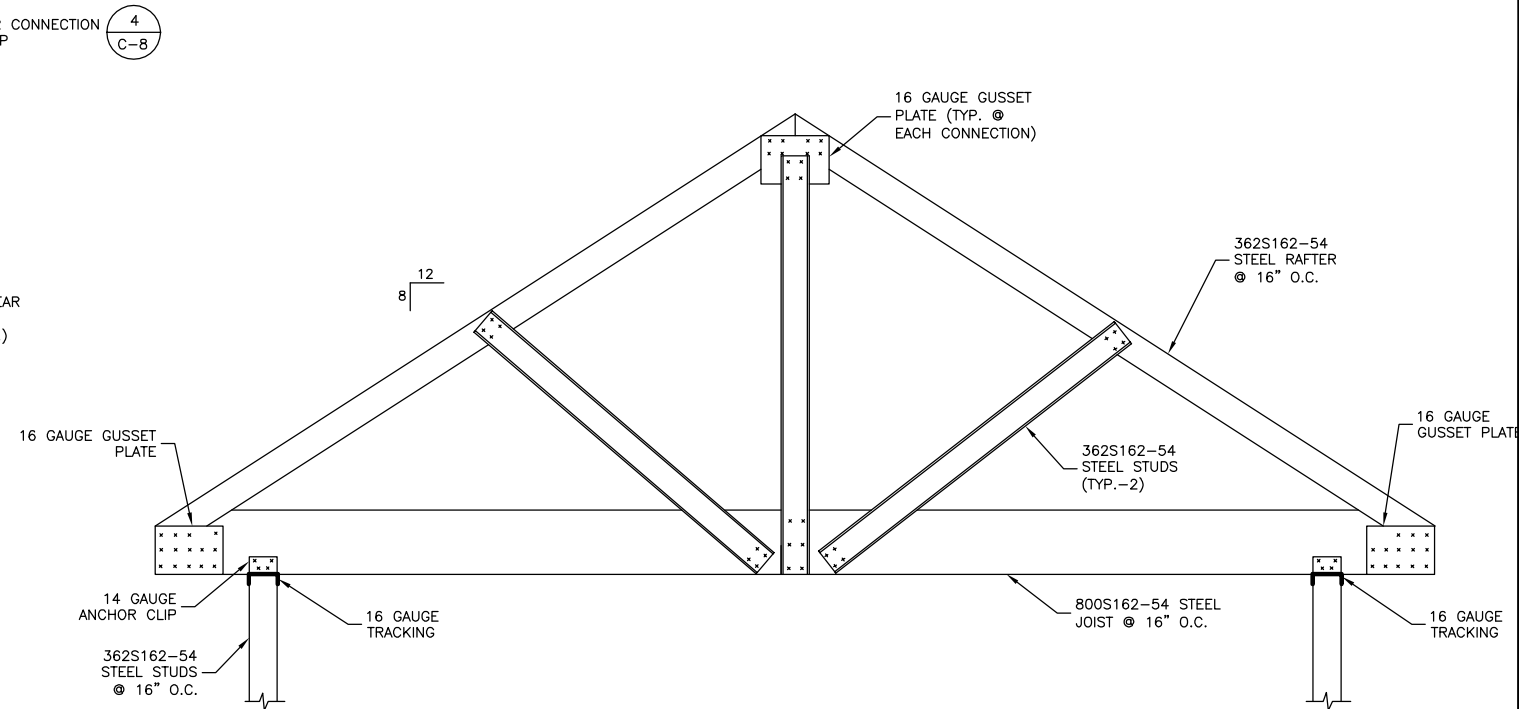
WALL SECTION DETAIL
SCALE: N.T.S.



- NOTE:**
- ONLY ONE SET OF STRAPPING REQUIRED ON DOOR SIDE WALL.
 - ACCOMMODATE FOR DOORS ON THE EQUIPMENT, GENERATOR ROOMS AND VENT FRAMING NOT SHOWN.

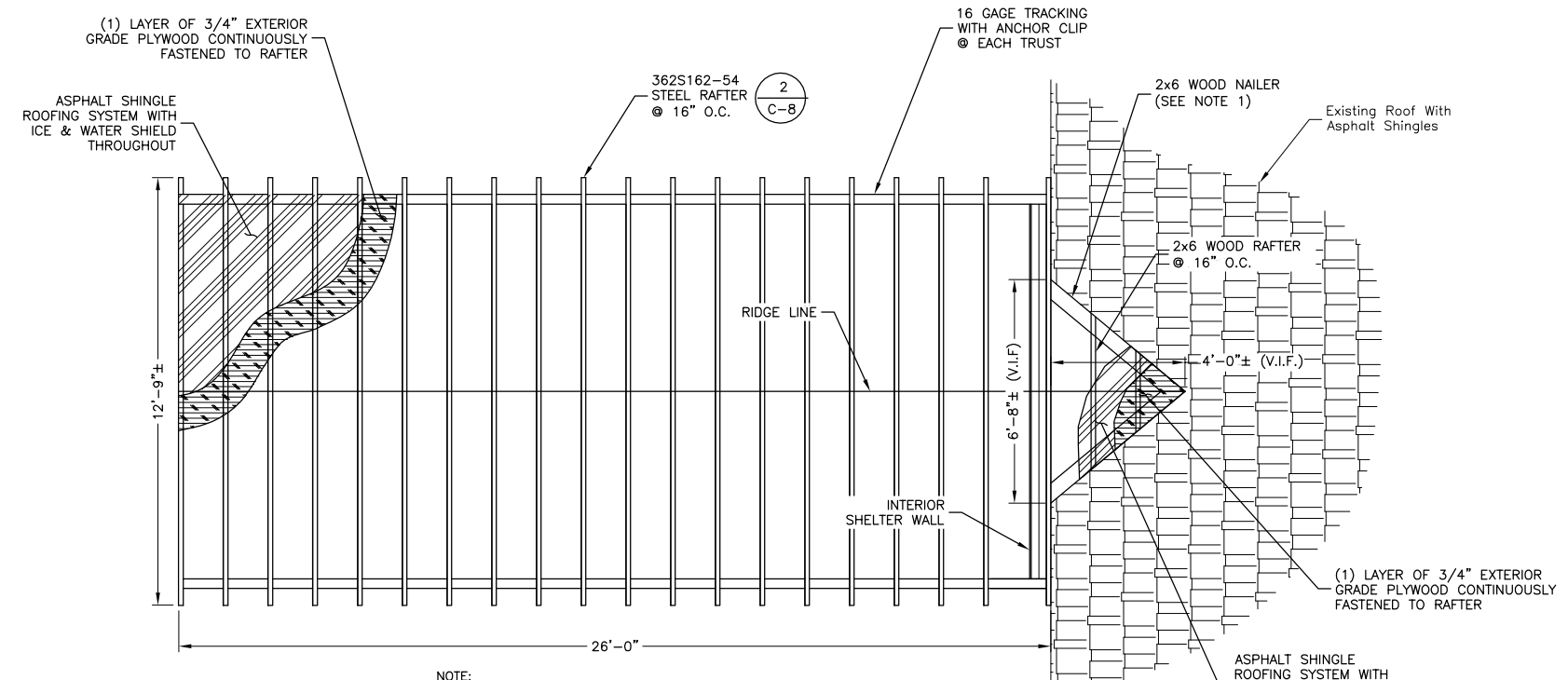
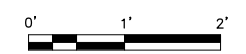
LONG WALL BRACING

SCALE: 3/16"=1' FOR 11"x17"
3/8"=1' FOR 22"x34"



ROOF TRUSS SYSTEM - DETAIL

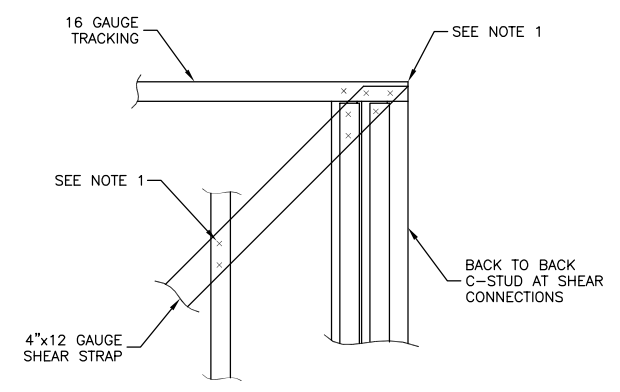
SCALE: 1/2"=1' FOR 11"x17"
1"=1' FOR 22"x34"



- NOTE:**
- REMOVE EXISTING SHINGLES AT LOCATION OF SHELTER ROOF EXTENSION. ATTACH NAILER TO EXISTING ROOF STRUCTURE.
 - ONCE ROOF EXTENSION IS INSTALLED, NEW SHINGLES SHALL BE INSTALLED TO MATCH EXISTING ROOF SYSTEM.

ROOF PLAN

SCALE: 3/16"=1' FOR 11"x17"
3/8"=1' FOR 22"x34"



- NOTE:**
- INTERMEDIATE STUDS TO BE ATTACHED WITH NO. 8x5/8" WAFER HEAD SELF DRILLING SCREWS WITH FENDER WASHERS. TYP.-ALL SHEAR STRAP CONNECTION POINTS.

SHEAR CONNECTION @ TOP & BOTTOM

SCALE: N.T.S.



VERIZON WIRELESS
400 FRIBERG PARKWAY
WESTBOROUGH, MA 01581-3956

PORTLAND 6 ME

CONSTRUCTION DRAWINGS	
A	08/18/14 FOR COMMENT



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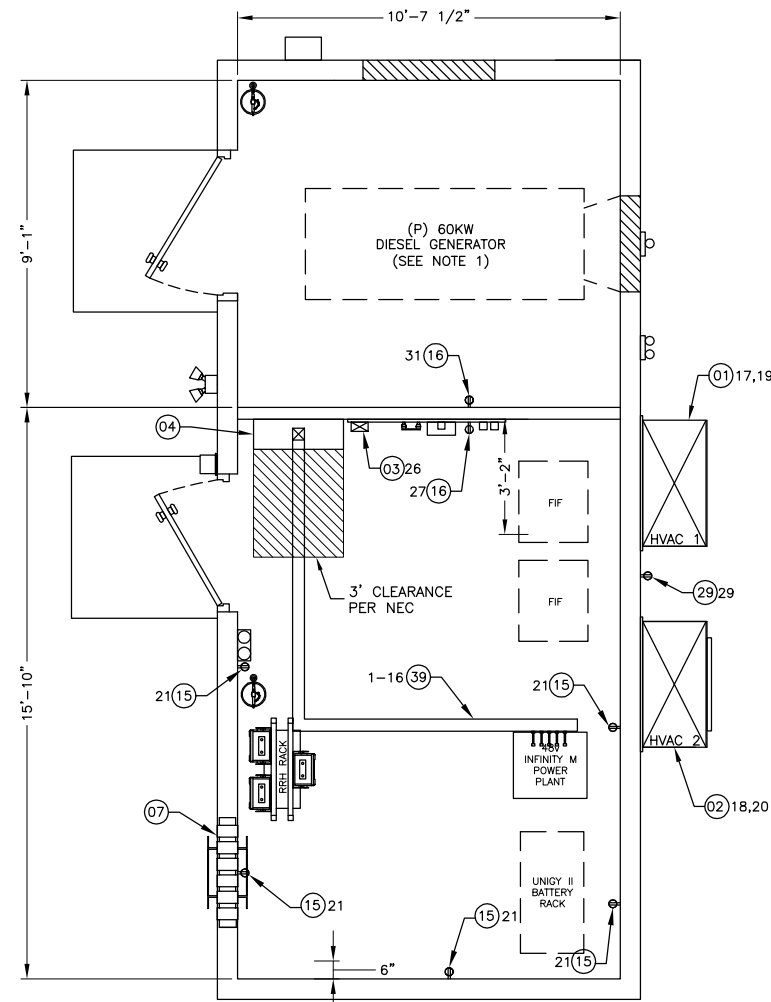
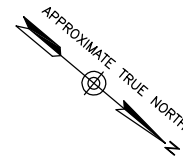
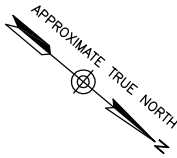
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REVIEWED BY:	MFT
CHECKED BY:	BBR
PROJECT NUMBER:	50002925
JOB NUMBER:	50062235
SITE ADDRESS	

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PEAKS ISLAND, ME 04108

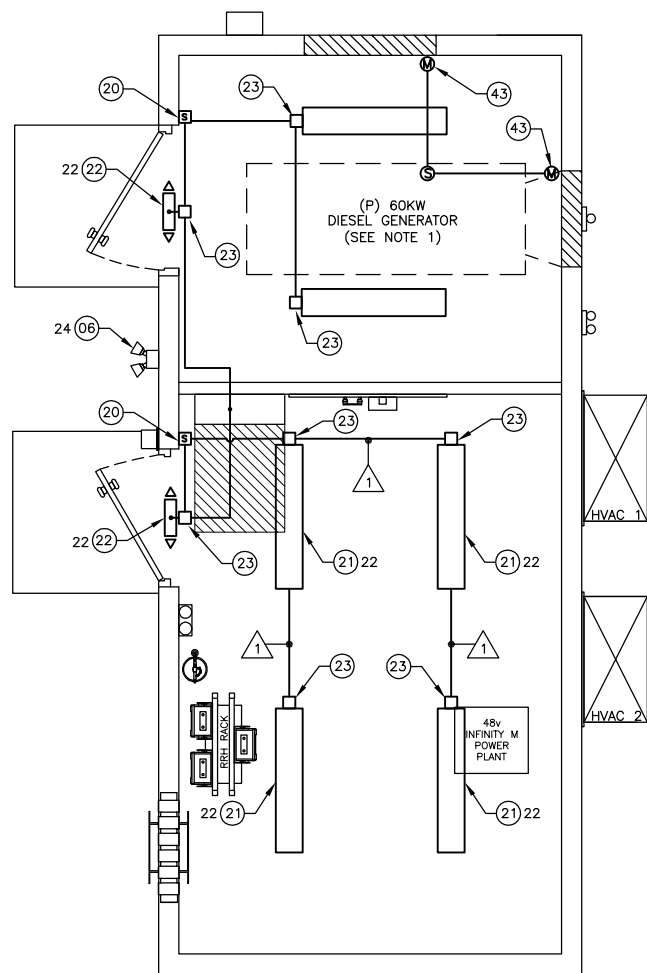
SHEET TITLE

SHELTER FRAMING
ELEVATIONS & DETAILS

SHEET NUMBER



POWER PLAN
SCALE: 3/16"=1' FOR 11"x17"
3/8"=1' FOR 22"x34"
1



LIGHTING PLAN
SCALE: 3/16"=1' FOR 11"x17"
3/8"=1' FOR 22"x34"
2

NOTE:
:-REFER TO THIS SHEET FOR BILL OF MATERIALS.
:-REFER TO E-2 SHEET FOR POWER PANEL SCHEDULE.
FOR RISER DIAGRAM SEE SHEET E-3.

WIRE & CONDUIT SPECIFICATIONS	
△	2#12 & 1#12G IN 3/4" C (EMT)

NOTE:
1. PROVIDE DIESEL GENERATOR CLEARANCE & PLUMBING AS REQUIRED PER VERIZON WIRELESS C.M. & MANUFACTURER RECOMMENDATIONS.

BILL OF MATERIALS

01	AIRYSY 3.5 TON WALL PACK UNIT (WPU) P/N 13E1C3-5K (SEE PAGE M-1)
02	AIRYSY 3.5 TON WALL PACK UNIT (WPU) P/N BE1C2-5K
03	LEADLAG CONTROLLER, AIRSYS P/N ASLLC.2
04	INTEGRATED LOAD CENTER (ILC) 200A, 600 VAC SERIES WITH AUTOMATED TRANSFER SWITCH
05	AUTOMATIC TRANSFER SWITCH, 200A-1-PHASE-3-WIRE NOT USED
06	HEATH ZENITH 240° HALOGEN MOTION SENSING SECURITY LIGHT, P/N SL-5597-WH OR APPROVED EQUAL
07	MICROFLECT COAX ENTRY, 16 PORT, SEE DETAIL 3/C-3
08	TELCO ALARM BOX 16"x12"x16" NEMA 1
09	L-18-4-3070, 3'X7' DOOR, FRAME, AND HARDWARE (OR APPROVED EQUAL SEE CONSTRUCTION NOTE 1 ON G-1)
10	LOCKSET WITH REMOVABLE CORE (COORDINATE WITH VERIZON CM)
11	TELCO BOARD, 3/4"x4'-0"x8'-0" AC PAINTED WHITE
12	MBG 1/4"x4"x24" SOLID COPPER GROUND BAR, 26 PAIRS 1/4" PREDRILLED LUG HOLES & 26 PAIRS 7/16" UNIVERSAL LUG HOLES WITH MOUNTING HARDWARE. WIRELESS SOLUTIONS HLG-0424-IS_TESSCO SKU 431411
13	MBG 1/4"x4"x24" SOLID COPPER GROUND BAR, 26 PAIRS 1/4" PREDRILLED LUG HOLES & 26 PAIRS 7/16" UNIVERSAL LUG HOLES WITH MOUNTING HARDWARE. WIRELESS SOLUTIONS HLG-0424-IS_TESSCO SKU 431411
14	TELCO GROUND BAR, 2"x14"x1/4" SOLID COPPER GROUND BAR, 15 PAIRS OF 7/16" UNIVERSAL LUG HOLES WITH MOUNTING HARDWARE. WIRELESS SOLUTIONS HLG-0214-IS_TESSCO SKU 410529
15	QUAD RECEPTACLES, 20 AMP - (2) TWO HUBBELL P/N 5362W W/ P82W PLATE
16	RECEPTACLE, 20A, 120V, TWISTLOCK - HUBBELL P/N 2310 W/ P720W PLATE
17	SQUARE D HU361RB, 60A, NEMA 3R NON-FUSED SAFETY SWITCH
18	HUBBELL #6FR5362WA, 20A, 120V GFCI RECEPTACLE (PLATE INCLUDED)
19	DOOR INTRUSION ALARM
20	INTERIOR LIGHT SWITCH, 20 AMP HUBBELL P/N 1221 W/ P/N P1N WALL PLATE
21	7"W X 48"L COOPER LED LIGHTING PN: VT-LD2-55DR-120V-LB35-U WITH VT2-CHAIN SET
22	EMERGENCY LIGHT/EXIT SIGN, LITHONIA QUANTUM P/N LHQMSW3R
23	4"x4" JUNCTION BOX
24	SMOKE DETECTOR 24 VDC
25	ALARM BLOCK, 100 TERMINAL (SIEMENS PIN S66B450MH49)
26	HIGH TEMPERATURE ALARM, DAYTON 1UHH2
27	LOW TEMPERATURE ALARM, DAYTON 1UHH2
28	MAGNETIC DOOR ALARM CONTACTS
29	HUBBELL #6FR5362WA, 20A, 120V GFCI RECEPTACLE (PLATE INCLUDED)
30	10LB CO2 FIRE EXTINGUISHER, MOUNTING BRACKET AND SIGNAGE
31	EYE WASH STATION, DUAL 32 OZ BOTTLE
32	CORD REEL - 30 FOOT; 3 OUTLET
33	GENERATOR FUEL FILL BOX (INSTALL PER GENERATOR MANUFACTURER RECOMMENDATIONS)
34	2" BLACK SCH. 40 PIPE (INSTALL PER GENERATOR MANUFACTURER RECOMMENDATIONS)
35	2" VENT TO OUTSIDE (INSTALL PER GENERATOR MANUFACTURER RECOMMENDATIONS)
36	3" NPT EMERGENCY VENT TO OUTSIDE (INSTALL PER GENERATOR MANUFACTURER RECOMMENDATIONS)
37	3" NPT SECONDARY EMERGENCY VENT TO OUTSIDE (INSTALL PER GENERATOR MANUFACTURER RECOMMENDATIONS)
38	GENERATOR EXHAUST PIPE WITH RAIN CAP (INSTALL PER GENERATOR MANUFACTURER RECOMMENDATIONS)
39	GALVANIZED 4"x4" WIREWAY TERMINATED WITH 10' LONG, 1" LFMC DROPS WITH 45° CONNECTORS FOR (2#8 & 1#8G) FEEDER CIRCUITS
40	L-18-4-4070, 4'X7' DOOR, FRAME, AND HARDWARE (OR APPROVED EQUAL SEE SHELTER NOTE 1 ON GN-1)
41	30" LOUVER DAYTON, (P/N 3C309), ALUMINUM
42	42" LOUVER DAYTON, (P/N 3C311), ALUMINUM
43	DOUBLE PANEL WALL SHUTTER MOTOR PACK, DAYTON, (P/N 24N065)
44	INSTALL DUCT TO EXHAUST LOUVER PER MANUFACTURER'S RECOMMENDATIONS



VERIZON WIRELESS
400 FRIBERG PARKWAY
WESTBOROUGH, MA 01581-3956

PORTLAND 6 ME

CONSTRUCTION DRAWINGS

A	08/18/14	FOR COMMENT



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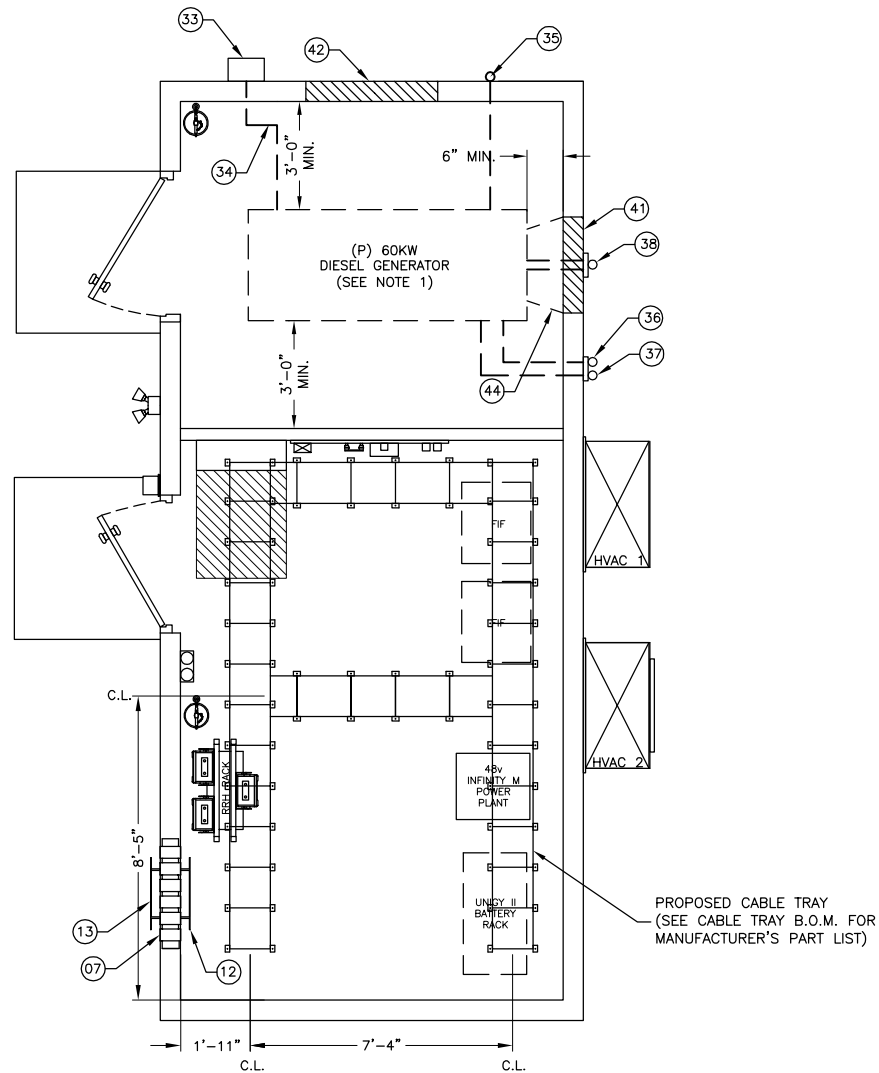
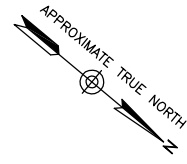
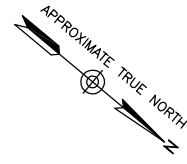
DRAWN BY:	MR
REVIEWED BY:	MFT
CHECKED BY:	BBR
PROJECT NUMBER:	50002925
JOB NUMBER:	50062235
SITE ADDRESS	

25 CHURCH AVE
PEAKS ISLAND, ME 04108

SHEET TITLE

POWER & LIGHTING PLANS

SHEET NUMBER



NOTE:

1. GENERATOR PIPING SHOWN AS SCHEMATIC. FINAL LOCATIONS AND SIZE PER GENERATOR MANUFACTURER SPECIFICATIONS..
2. PROVIDE DIESEL GENERATOR CLEARANCES & PLUMBING AS REQUIRED PER VERIZON WIRELESS C.M. & MANUFACTURER RECOMMENDATIONS.

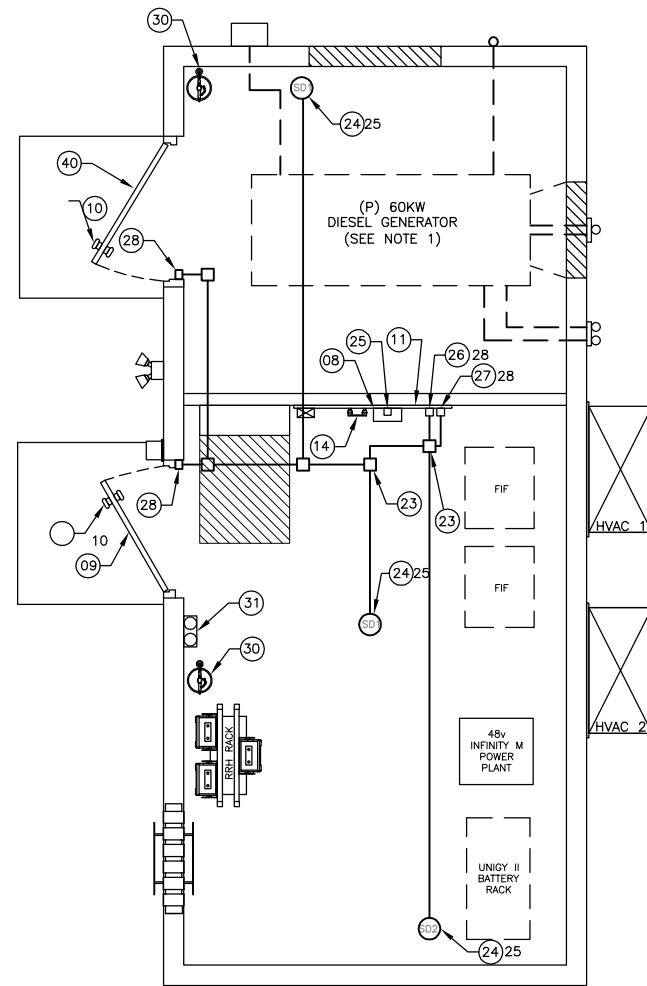
**CABLE TRAY PLAN/
GENERATOR DETAILS**

SCALE: 3/16"=1' FOR 11"x17"
3/8"=1' FOR 22"x34"



NOTE:

- Ⓝ :-REFER TO SHEET E-1 FOR BILL OF MATERIALS.
- # :-REFER TO THIS SHEET FOR POWER PANEL SCHEDULE.



ALARM & SIGNAL PLAN

SCALE: 3/16"=1' FOR 11"x17"
3/8"=1' FOR 22"x34"



CABLE TRAY PARTS-BOM

NEWTON INSTRUMENT #A-2213, CEILING HANGER BRACKET
NEWTON INSTRUMENT #3010-8, 3/8"x1 3/4" CAP SCREW
NEWTON INSTRUMENT 5/8"-11 THREADED ROD
NEWTON INSTRUMENT #3014-8, 5/8"-11 NUT
NEWTON INSTRUMENT #3029-1, HANGER BRACKET
NEWTON INSTRUMENT #3014-6, NUT
NEWTON INSTRUMENT #A-1589, SPLICE CLAMP
NEWTON INSTRUMENT #3017-2, BOLT
NEWTON INSTRUMENT #3018-4, 5/8" EXPANSION SHIELD
NEWTON INSTRUMENT #2003-23, 18-INCH CABLE TRAY
NEWTON INSTRUMENT #A-1592, CORNER CLAMP
NEWTON INSTRUMENT #3017-1, BOLT
NEWTON INSTRUMENT #2085-8, 18" END CLOSING BAR

NEMA 1 PANEL SCHEDULE - ILC 22,000 A.I.C.

W/200A MAIN C/B					
CKT #	DESCRIPTION	AMP	AMP	DESCRIPTION	CKT #
1	RECTIFIER #1	40	40	RECTIFIER #2	2
3					4
5	RECTIFIER #3	40	40	RECTIFIER #4	6
7					8
9	RECTIFIER #5	40	40	RECTIFIER #6	10
11					12
13	RECTIFIER #7	40	40	RECTIFIER #8	14
15					16
17	HVAC UNIT #1	40	40	HVAC UNIT #2	18
19					20
21	RECEPTACLES - EQUIPMENT ROOM	20	20	LIGHTING-EQUIPMENT ROOM	22
23	SPARE	20	20	EXTERIOR LIGHT	24
25	SMOKE, TEMP, DOOR ALARMS	20	20	HVAC CONTROLLER (LEAD LAG)	26
27	TWIST LOCK RECEPTACLE-TELCO	15	20	CONTROLLER (HI/LO)	28
29	GFCI RECEPTACLE (BETWEEN HVAC)	20	20	SPARE	30
31	RECEPTACLES - GENERATOR ROOM	20	-	SPACE	32
33	SPACE	-	-	SPACE	34
35	SPACE	-	-	SPACE	36
37	SPACE	-	-	SPACE	38
39	SPACE	-	-	SPACE	40
41	SPACE	-	-	SPACE	42

LEGEND

- Ⓝ1 STAND ALONE SMOKE DETECTOR WITH DRY CONTACTS FOR CONNECTION TO VERIZON WIRELESS DIAL UP
- Ⓝ2 STAND ALONE SMOKE DETECTOR WITH DRY CONTACTS FOR HVAC SHUTDOWN ON DETECTION



VERIZON WIRELESS
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PORTLAND 6 ME

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REVIEWED BY: MFT

CHECKED BY: BBR

PROJECT NUMBER: 50002925

JOB NUMBER: 50062235

SITE ADDRESS

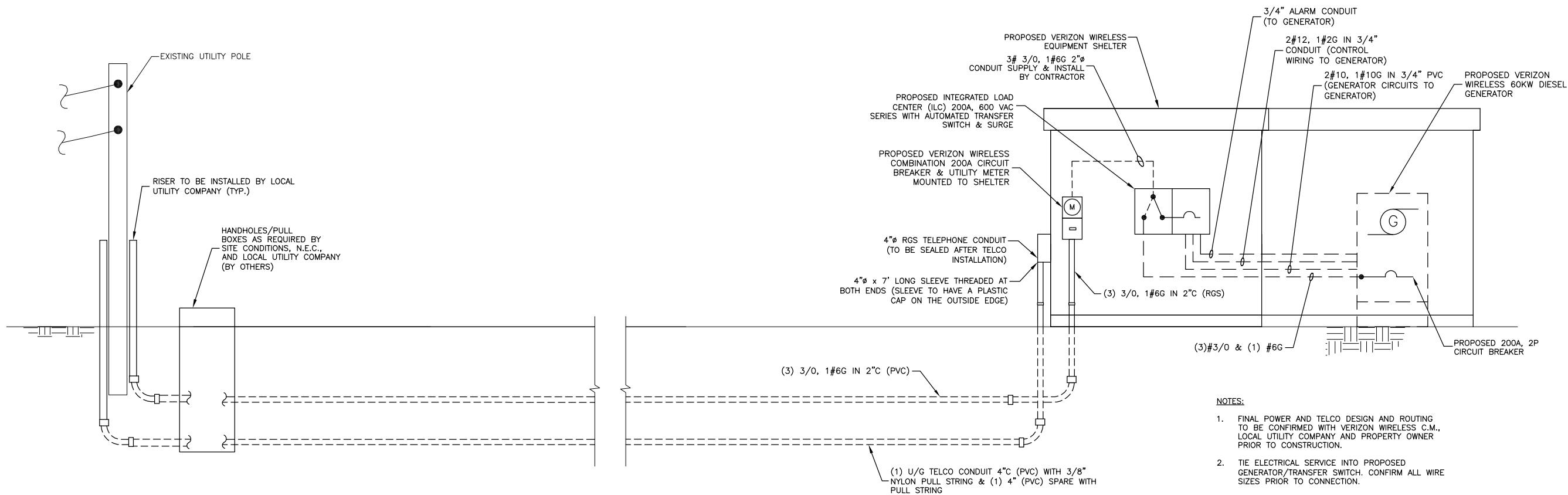
25 CHURCH AVE
PEAKS ISLAND, ME 04108

SHEET TITLE

CABLE TRAY & ALARM
SIGNAL PLANS

SHEET NUMBER

E-2



ELECTRICAL RISER DIAGRAM AND SERVICE ENTRANCE (SCHEMATIC)

SCALE: N.T.S.

1

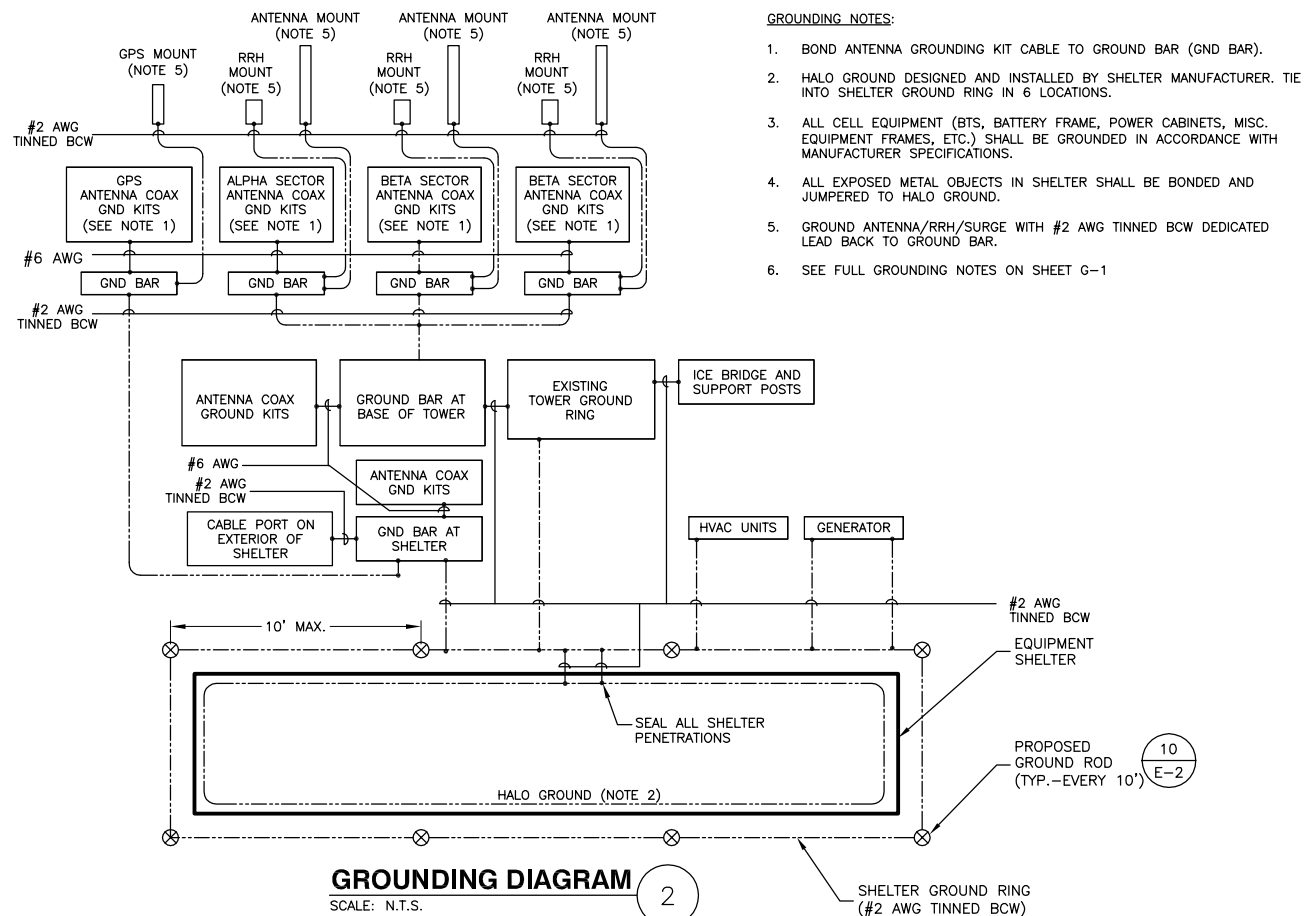
NOTES:

1. FINAL POWER AND TELCO DESIGN AND ROUTING TO BE CONFIRMED WITH VERIZON WIRELESS C.M., LOCAL UTILITY COMPANY AND PROPERTY OWNER PRIOR TO CONSTRUCTION.
2. TIE ELECTRICAL SERVICE INTO PROPOSED GENERATOR/TRANSFER SWITCH. CONFIRM ALL WIRE SIZES PRIOR TO CONNECTION.
3. ELECTRICAL DESIGN PENDING FINAL UTILITY DESIGN. COORDINATE THE NEW SERVICE METER INSTALLATION WITH LOCAL UTILITY.

OUTDOOR ELECTRICAL GENERAL NOTES

1. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT. CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION.
2. THESE PLANS ARE DIAGRAMMATIC ONLY, AND NOT TO BE SCALED.
3. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC. FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
4. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, AND NBFU.
5. ALL CONDUIT INSTALLED SHALL BE SURFACE MOUNTED UNLESS OTHERWISE NOTED.
6. ELECTRICAL CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY, LOCAL ELECTRICAL CODES AND O.S.H.A.
7. ELECTRICAL CONTRACTOR SHALL SECURE ALL NECESSARY ELECTRICAL PERMITS, AND PAY ALL REQUIRED FEES.
8. COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF NO LESS THAN ONE YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL, OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION AT THE EXPENSE OF THE CONTRACTOR.
9. ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE.
10. PROVIDE THE OWNER WITH ONE SET OF COMPLETE ELECTRICAL "AS BUILT" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS AND CIRCUITS, WITHIN 10 WORKING DAYS OF PROJECT COMPLETION.
11. ALL BROCHURES, OPERATION MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO PROJECT MANAGER AT JOB COMPLETION.
12. USE T-TAP CONNECTIONS ON ALL MULTI-CIRCUITS WITH COMMON NEUTRAL CONDUCTOR FOR LIGHTING FIXTURE.
13. ALL CONDUCTORS SHALL BE COPPER.

14. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
15. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES.
16. PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
17. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC. IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND REBARS WILL NOT BE DRILLED INTO, CUT, OR DAMAGED UNDER ANY CIRCUMSTANCES.
18. LOCATION OF TENDONS AND RE-BARS ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY, OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING STEEL TENDONS.
19. ALL EXISTING UNDERGROUND LINES ON SITE TO BE LOCATED PRIOR TO CONSTRUCTION.
20. SHELTER IS PRE-WIRED AND TESTED AT FACTORY. COORDINATE FINAL POWER CONNECTION WITH LOCAL INSPECTOR.
21. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND/OR CATALOG CUT-SHEETS ON ALL NON-SPECIFIED ORIGINAL MATERIALS AND EQUIPMENT.
22. UPON COMPLETION OF WORK, CONDUCT CONTINUITY SHORT CIRCUIT, AND FALL OF POTENTIAL GROUNDING TEST WITH WRITTEN REPORT SUBMITTED TO THE PROJECT MANAGER FOR REVIEW AND APPROVAL.
23. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNMAYED CONDITION.
24. ALL EXTERIOR WALL PENETRATIONS SHALL BE SILICONE SEALED.
25. ALL DOWNLEADS #2 TINNED COPPER TO BE PROTECTED BY 1/2" P.V.C. PIPE AND SECURED TO SHELTER OR TOWER.
26. COMPRESSION FITTINGS TO BE USED ON ALL "EMT" CONDUITS (NO SETSCREWS).
27. ALL #6 STRANDED COPPER WITH GREEN INSULATION TO BE ATTACHED WITH CRIMPED DOUBLE LUG BOLTED WITH CAD PLATED BOLTS AND STAR WASHERS TYPICAL AND NO-OX GREASE.
28. COORDINATE ALL METER WORK WITH METER BANK OWNER AND LOCAL UTILITY COMPANY.



GROUNDING NOTES:

1. BOND ANTENNA GROUNDING KIT CABLE TO GROUND BAR (GND BAR).
2. HALO GROUND DESIGNED AND INSTALLED BY SHELTER MANUFACTURER. TIE INTO SHELTER GROUND RING IN 6 LOCATIONS.
3. ALL CELL EQUIPMENT (BTS, BATTERY FRAME, POWER CABINETS, MISC. EQUIPMENT FRAMES, ETC.) SHALL BE GROUNDED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.
4. ALL EXPOSED METAL OBJECTS IN SHELTER SHALL BE BONDED AND JUMPERED TO HALO GROUND.
5. GROUND ANTENNA/RRH/SURGE WITH #2 AWG TINNED BCW DEDICATED LEAD BACK TO GROUND BAR.
6. SEE FULL GROUNDING NOTES ON SHEET G-1

GROUNDING DIAGRAM

SCALE: N.T.S.

2



VERIZON WIRELESS
400 FRIBERG PARKWAY
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PORTLAND 6 ME

CONSTRUCTION DRAWINGS

A 08/18/14 FOR COMMENT



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DRAWN BY: MR
REVIEWED BY: MFT
CHECKED BY: BBR
PROJECT NUMBER: 50002925
JOB NUMBER: 50062235
SITE ADDRESS

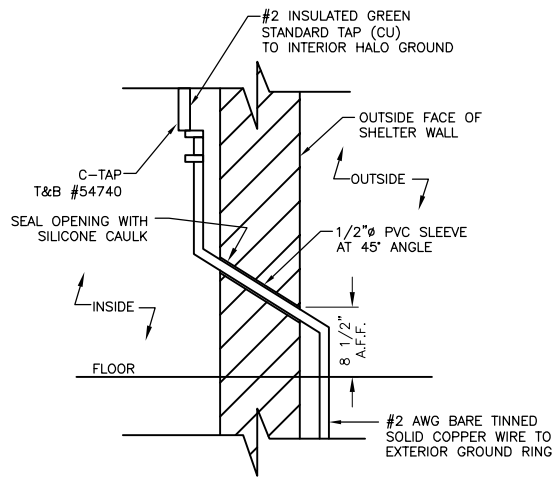
25 CHURCH AVE
PEAKS ISLAND, ME 04108

SHEET TITLE

ELECTRICAL RISER DIAGRAM

SHEET NUMBER

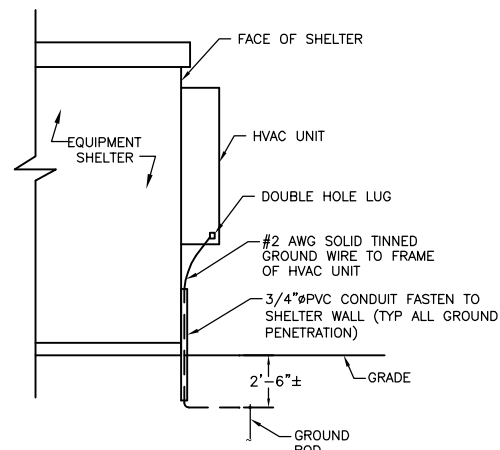
E-3



WALL GROUND PENETRATION

SCALE: N.T.S.

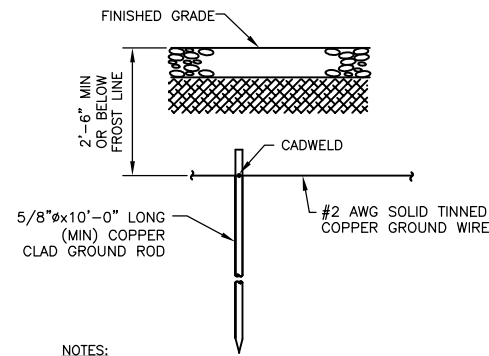
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HVAC UNIT GROUND

SCALE: N.T.S.

2



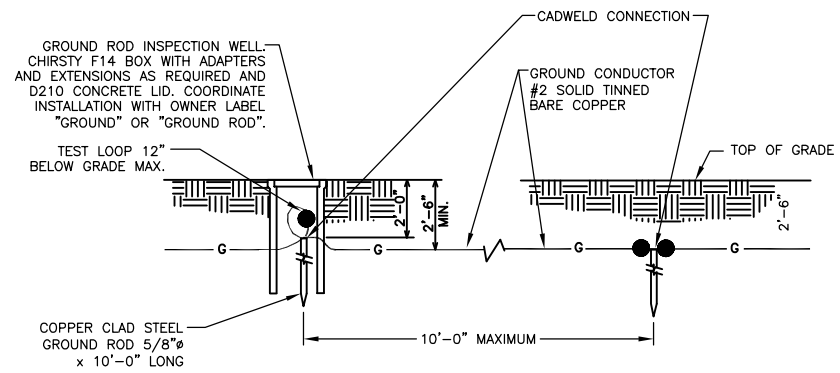
NOTES:

- CADWELD TO GROUND RING AFTER GROUND ROD HAS BEEN DRIVEN INTO PLACE.
- FROST LINE TO BE VERIFIED.

GROUND ROD

SCALE: N.T.S.

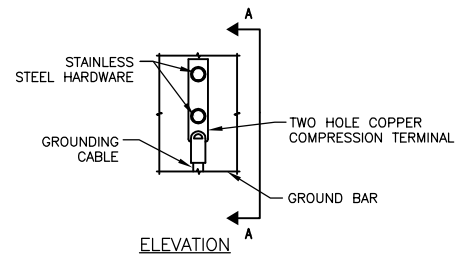
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GROUND BOX DETAIL

SCALE: N.T.S.

4



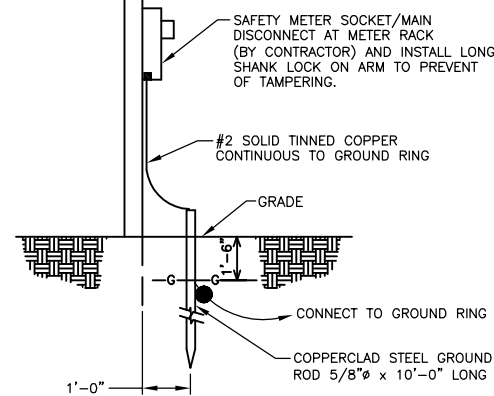
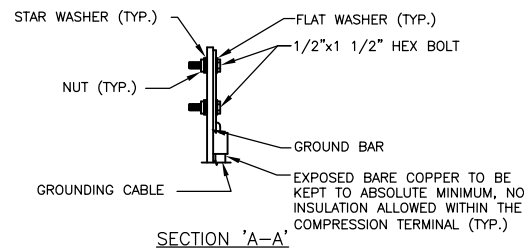
NOTES:

- DOUBLING UP OR STACKING OF CONNECTIONS IS NOT PERMITTED
- OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

TYPICAL GROUND BAR MECHANICAL CONNECTION DETAIL

SCALE: N.T.S.

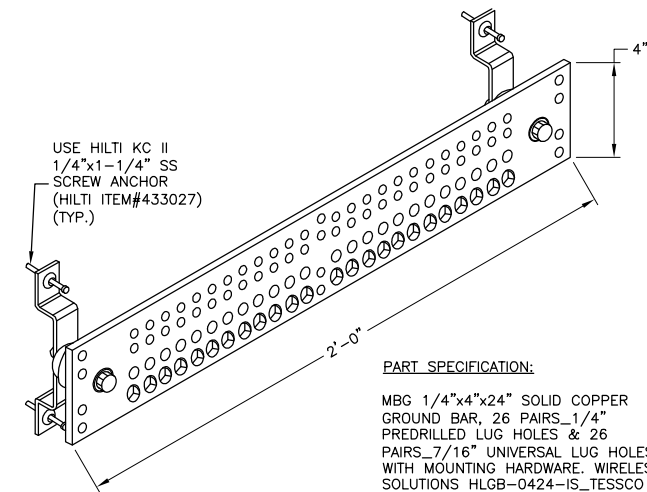
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METER SOCKET GROUNDING

SCALE: N.T.S.

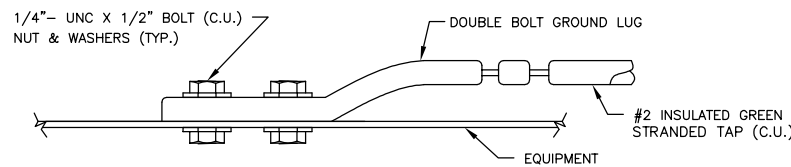
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GROUND BAR DETAIL

SCALE: N.T.S.

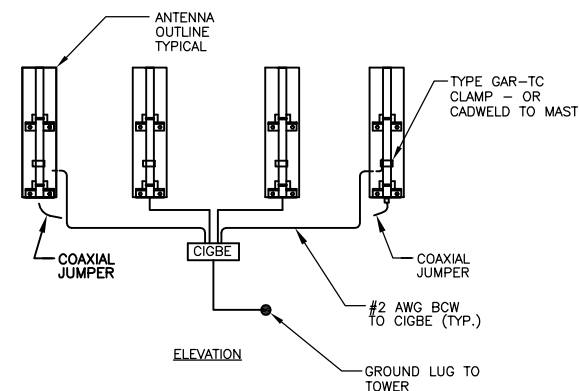
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CONNECTION TO EQUIPMENT DETAIL

SCALE: N.T.S.

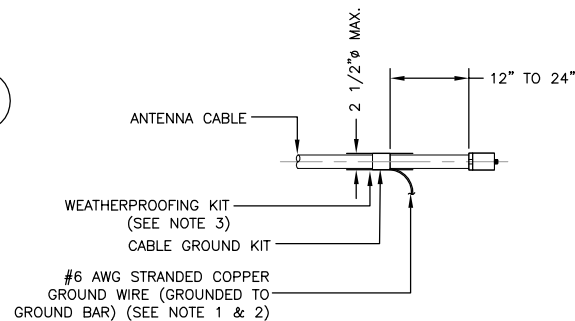
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ANTENNA MOUNT GROUNDING DETAIL

SCALE: N.T.S.

9



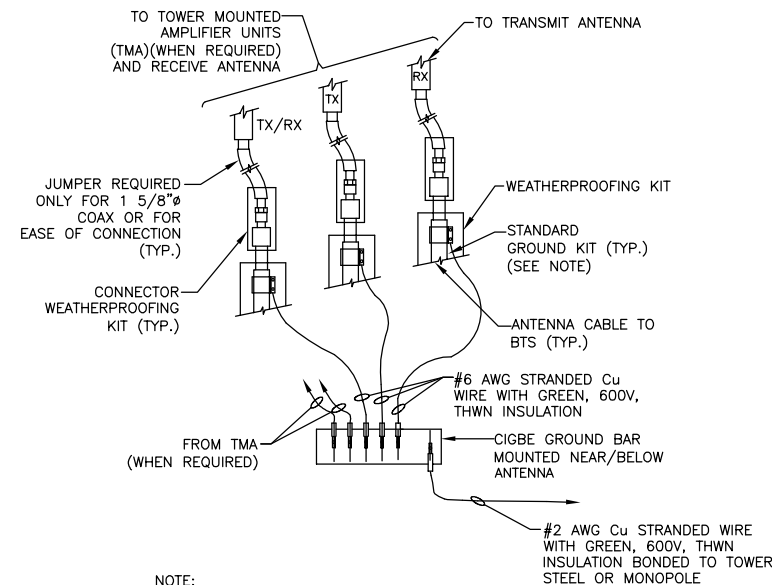
NOTES:

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- GROUNDING KIT SHALL BE ANDREW SUREGROUND TYPE KIT WITH TWO-HOLE LUG.
- WEATHER PROOFING SHALL BE ANDREW TWO-PART TAPE SUPPLIED WITH KIT. COLD SHRINK SHALL NOT BE USED.

CONNECTION OF CABLE GROUND KIT TO ANTENNA CABLE DETAIL

SCALE: N.T.S.

10



NOTE:

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE.

CONNECTION OF GROUND WIRE TO GROUNDING BAR DETAIL

SCALE: N.T.S.

11



VERIZON WIRELESS
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DRAWN BY:	MR
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PROJECT NUMBER:	50002925
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SITE ADDRESS	

25 CHURCH AVE
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SHEET TITLE

GROUNDING DETAILS

SHEET NUMBER

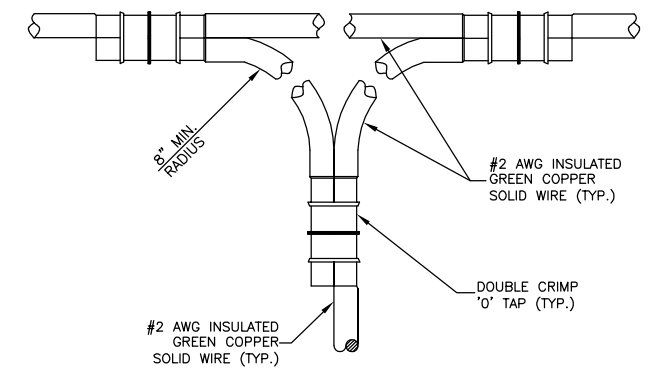
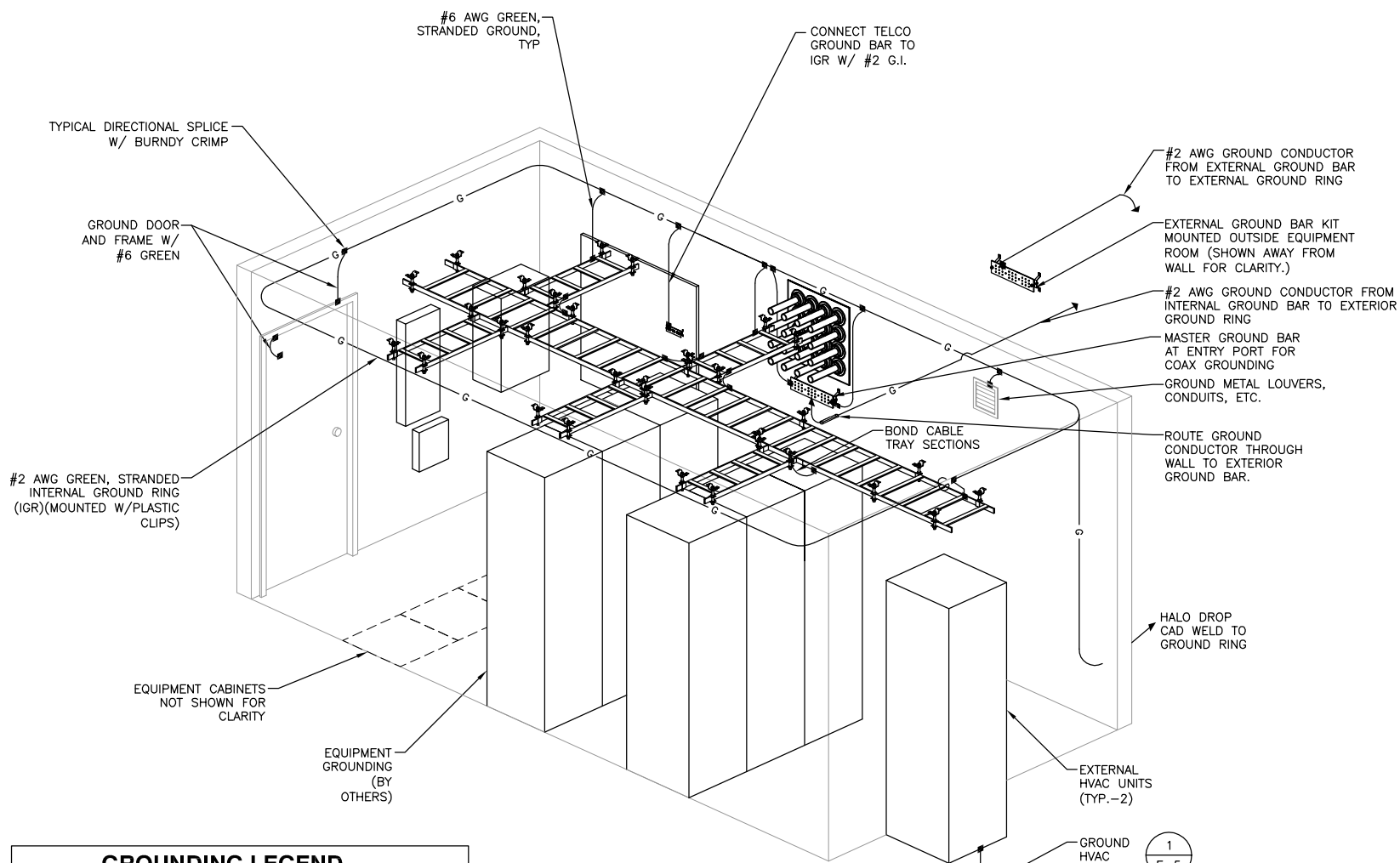
E-4

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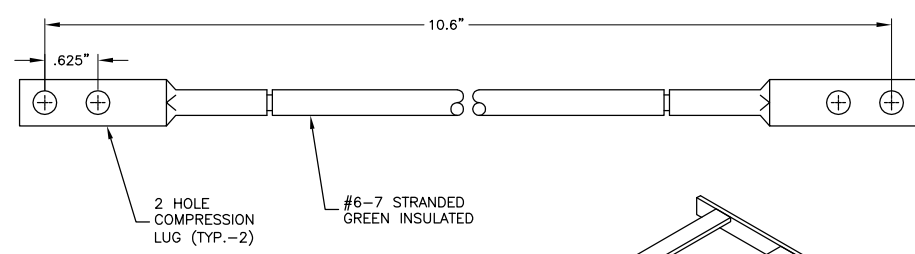


CONNECTION TO GROUND HALO DETAIL 2
SCALE: N.T.S.

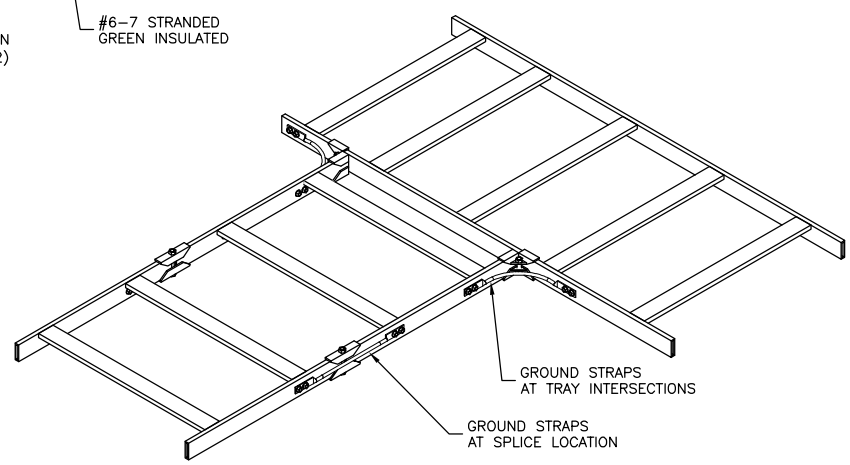
GROUNDING LEGEND	
SYMBOL	DESCRIPTION
▶	EXOTHERMIC WELD
■	MECHANICAL CONNECTION

NOTE:
1. ROOM SCHEMATIC IS NOT REPRESENTATIVE OF ACTUAL ROOM LAYOUT.

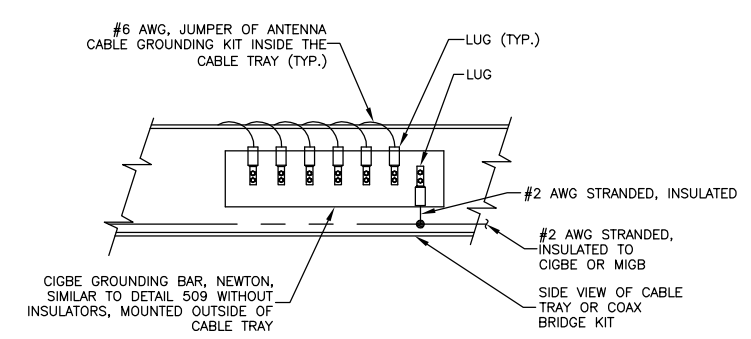
TYPICAL EQUIPMENT ROOM GROUNDING SCHEMATIC 1
SCALE: N.T.S.



- NOTES:
- BONDING KIT BY CHATSWORTH PRODUCTS, INC PN 40164-001 OR EQUAL. KITS TO BE UL LISTED.
 - KIT INCLUDES (4) 1/4"-20x3/4"L STAINLESS STEEL CAP SCREWS, (4) FLAT WASHERS, (4) LOCK WASHERS, (4) NUTS.
 - INSTALL GROUNDING STRAPS AT ALL TRAY SPLICE LOCATIONS AND AT TRAY INTERSECTIONS.



CABLE TRAY BONDING STRAP 4
SCALE: N.T.S.



GROUND BAR MOUNTED ON CABLE TRAY 3
SCALE: N.T.S.

DRAWN BY:	SK
REVIEWED BY:	GMT
CHECKED BY:	BBR
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SHEET TITLE	
GROUNDING SCHEMATIC & DETAILS	
SHEET NUMBER	

