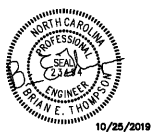


RENOVATION AND  
ADDITION FOR  
**ABERDEEN  
POLICE  
DEPARTMENT**



10/25/2019

ELECTRICAL  
DETAILS

DATE: 10/25/2019  
PROJECT NO: 18062

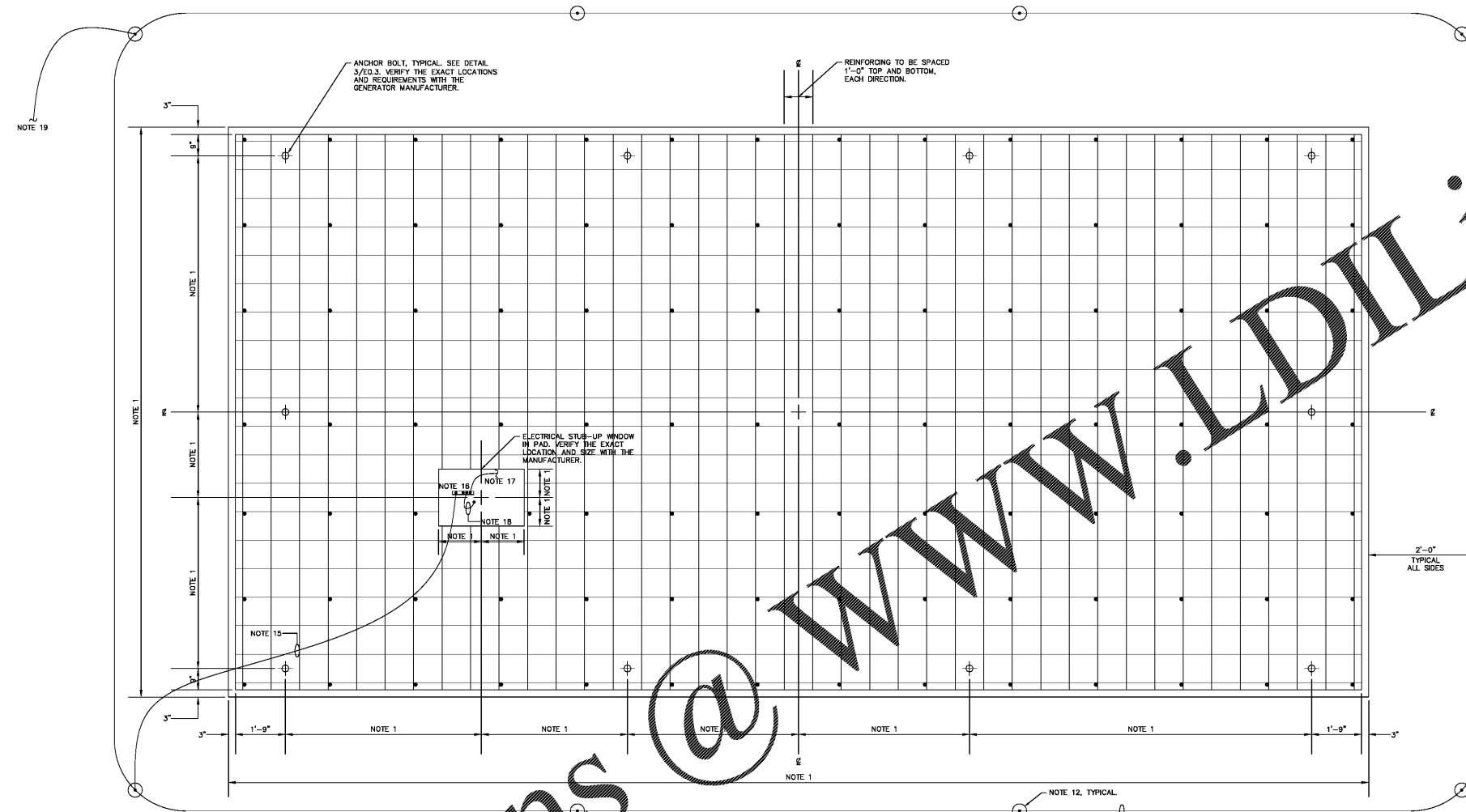
REVISIONS  
NO. DATE DESCRIPTION

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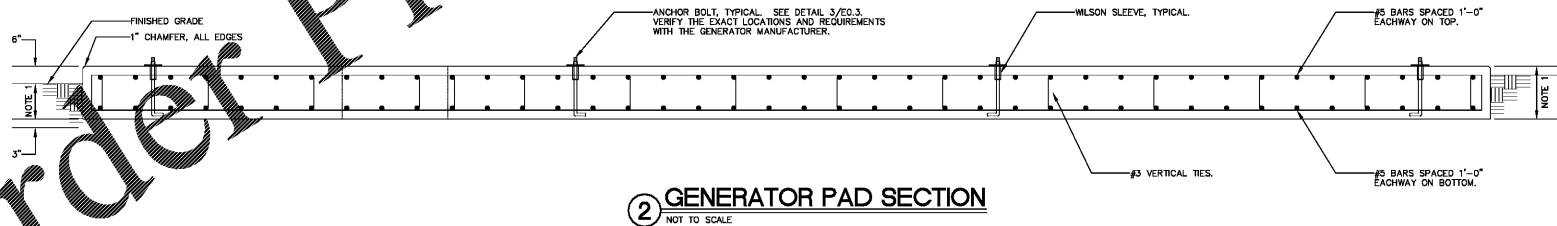
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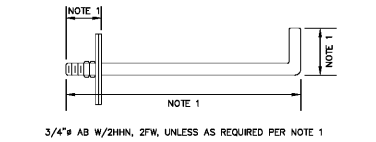
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**1 GENERATOR PAD AND GROUNDING PLAN**  
NOT TO SCALE



**2 GENERATOR PAD SECTION**  
NOT TO SCALE



**3 ANCHOR BOLT DETAIL**  
NOT TO SCALE

- SHEET NOTES:**
- FOUNDATION LOADS, ANCHOR BOLT SIZES, AND ANCHOR BOLT PATTERNS FOR THE GENERATOR PAD INDICATED ARE BASED ON TYPICAL INSTALLATIONS. EXACT PAD REQUIREMENTS SHALL BE BASED ON THE GENERATOR MANUFACTURER'S REQUIREMENTS BUT IN NO CASE SHALL THE PAD BE LESS THAN 18" THICK.
  - THE PAD SITE SHALL BE TESTED FOR AVAILABLE FOUNDATION BEARING CAPACITY.
  - ALL SITE PREP WORK SHALL BE COMPLETED AND BE PLACED IN ACCORDANCE WITH ASTM STANDARDS.
  - ALL CONCRETE SHALL ATTAIN A 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI, UNLESS OTHERWISE NOTED.
  - THE CONCRETE SLAB SHALL BE BETWEEN A MAXIMUM OF 2" AND A MINIMUM OF 2" CONCRETE EXPOSED TO WEATHER SHALL BE 4X TYPICAL AIR ENCLOSED.
  - REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A631, GRADE 60. SPLICES SHALL BE LAPPED A MINIMUM OF 24 DIAMETERS.
  - ANCHOR BOLTS SHALL HAVE A 1" 45° CHAMFER.
  - APPROVED MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
  - ANCHOR BOLTS SHALL BE ASTM A307 (CARBON STEEL).
  - GENERATOR PAD TO BE INSTALLED BY THE GENERAL CONTRACTOR. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GC FOR PAD REQUIREMENTS. THE GROUND RING SHALL BE BY THE ELECTRICAL CONTRACTOR.
  - 3/4" DIAMETER x 15'-0" COPPER CLAD GROUND ROD WITH TEST WELL. WITH TOP PORTION AND ALL CONNECTIONS ACCESSIBLE FOR INSPECTION AT THE TEST WELL. TYPICAL AT ALL GROUND ROD LOCATIONS. GROUND ROD CLAMP FOR SINGLE CONDUCTOR CONNECTIONS SHALL BE CAST BRONZE WITH MINIMUM TWO STAINLESS STEEL BOLTS (EAST COAST LIGHTNING EQUIPMENT #GC3/4 OR APPROVED EQUAL). GROUND ROD CLAMP FOR GROUND RING CONDUCTOR CONNECTION SHALL BE CAST BRONZE U-BOLT TYPE WITH STAINLESS STEEL BOLTS, NUTS AND WASHERS (ECLC #GCUB OR APPROVED EQUAL). TEST/INSPECTION WELL SHALL BE NOMINAL 12" SQ x 12" DEEP FIBER-GLASS REINFORCED PRECAST POLYMER CONCRETE BOX WITH THE FOLLOWING FEATURES: LIGHT GREEN COLOR, "GROUND" LOGO ON COVER, OPEN BOTTOM, (2)-3/8"-16 UNC STAINLESS STEEL HEX HEAD BOLTS W/ WASHER, 1/2" x 2" PULL SLOT, AND 0.5 COP SKID RESISTANT SURFACE (QUAZITE #PC1212BA12 BOX W/ #PC1212BA00 COVER).
  - THE GROUND RING SHALL BE 1-500KCMIL BARE TINNED COPPER CONDUCTOR BURIED A MINIMUM OF 30" BELOW FINISHED GRADE.
  - THE EARTH SHALL BE COMPACTED AND MADE TIGHT AGAINST ALL GROUND RODS, GROUND RING, CONDUCTORS, ETC.
  - 1-500KCMIL BARE TINNED COPPER CONDUCTOR FOR CONNECTION FROM GROUND RING TO GENERATOR OUTPUT BREAKER GROUND BAR. CONDUCTOR SHALL BE BURIED A MINIMUM OF 30" BELOW FINISHED GRADE BETWEEN GROUND RING AND GENERATOR.
  - APPROXIMATE LOCATION OF GENERATOR OUTPUT CIRCUIT BREAKER GROUND BAR. THE ELECTRICAL CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AS REQUIRED.
  - 1#3/0 COPPER GROUND (THIN) FROM GENERATOR OUTPUT CIRCUIT BREAKER GROUND BAR TO MARKED GENERATOR FRAME GROUND CONNECTION POINT. CLEAN CONNECTION POINT AS REQUIRED.
  - 1#3/0 COPPER GROUND (THIN) FROM GENERATOR OUTPUT CIRCUIT BREAKER GROUND BAR TO GENERATOR HOUSING BASE. 1-SEAL. CLEAN CONNECTION POINT AS REQUIRED.
  - 1#3/0 BARE TINNED COPPER CONDUCTOR FOR CONNECTION FROM GROUND RING TO THE MASTER GROUND BAR.

Order Plans

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