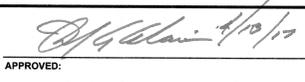


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FEMA REGULATIONS
<p><b>FLOOD HAZARD AREA, FLOOD HAZARD AREA DESIGN FLOOD AND FLOODWAY:</b></p> <p>FLOOD HAZARD AREA (100-YEAR) AND FLOOD HAZARD AREA DESIGN FLOOD (100-YEAR + 25%) ARE ELEVATION 13 BASED ON FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) NUMBER 34023C0067G, PANEL 87 OF 286, STAMPED PRELIMINARY &amp; CORRECTED COPY, DATED JANUARY 31, 2014 (NJDEP METHOD 2 FOR A TIDAL WATERWAY PER N.J.A.C. 7:13-3).</p>
<p><b>NOTE:</b></p> <p>ALL OR A PORTION OF THIS SITE LIES IN A FLOOD HAZARD AREA. CERTAIN ACTIVITIES IN FLOOD HAZARD AREAS ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A PERMIT. CONTACT THE DIVISION OF LAND USE REGULATION AT (609) 292-0060 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ONSITE.</p> <p>THE FINISH FLOOR ELEVATION OF GRIT CLASSIFIER BUILDING IS 15.00 PER FLOOD HAZARD AREA REGULATIONS.</p>
<p>CRAWL SPACE IS VENTED BY NON-ENGINEERED OPENINGS.</p> <p>CRAWL SPACE ENTRY DOOR WITH SS MESH DOOR: SIX(6)-32"x18"-INSTALLED 10" ABOVE ADJACENT GRADE IN CONCRETE BEAM OF CRAWL SPACE AS INDICATED IN DRAWINGS</p> <p>DETAILED SPECIFICATIONS: MATERIAL: STAINLESS STEEL COLORS: STAINLESS (STANDARD) VENT REMAINS OPEN ALWAYS. OPERATION FLOOD: ALWAYS OPEN OPERATION AIR: ALWAYS OPEN</p> <p>INSTALLATION: AREA OF CRAWL SPACE 904 SF. VENT NEEDED : 904 (APPROX) SQ.INCH FOR THE CRAWL SPACE VENTILATION: 216 (APPROX) SQ. INCH PER VENT VENT PROVIDED: 6 NO X 216 = 1296 SQ.IN. VENT REQUIREMENTS FLOOD: MINIMUM OF 2 VENTS PER ENCLOSED AREA : INSTALLATION 10" ABOVE ADJACENT GRADE MEETS THE REQUIREMENTS FOR NON ENGINEERED OPENINGS AS SET FORTH BY: FEMA, NFIP, ICC, &amp; ASCE SUPPORTIVE DOCUMENTS, TB 1-08, 44CFR 60.3(C)(5), ASCE 24-05, ICC EVALUATION # ESR-2074</p> <p>SIZE OF ACCESS DOOR : MIN. 24"x18" (IBC NJ SECTION 1209.1) PROVIDED : 32"x18"</p>

CODE INFORMATION	
<p><b>1. APPLICABLE CODES AND STANDARDS:</b></p> <p>IBC 2015 NEW JERSEY EDITION NATIONAL STANDARD PLUMBING CODE, 2015 NATIONAL ELECTRICAL CODE 2014 INTERNATIONAL MECHANICAL CODE 2015 ASHRAE 90-1 2013 INTERNATIONAL FUEL GAS CODE 2015 BARRIER FREE SUBCODE, IBC 2015 CHAPTER 11 AND ANSI -A117.1-2009</p> <p>ALL WORK BY ALL TRADES UNDER THE CONTRACT WILL BE PERFORMED IN ACCORDANCE WITH THE ABOVE CODES AND ALL OTHER REQUIREMENTS OF GOVERNMENT AND GOOD PRACTICE OF THE TRADE</p>	<p>PER NFPA 820 TABLE 5.22; 5 GRIT REMOVAL TANKS; GRIT CLASSIFIER ROOM (ENCLOSED) : NEC CLASSIFICATION CLASS 1, DIV 1 ALL MATERIALS ARE NON COMBUSTIBLE, COMBUSTIBLE GAS DETECTION SYSTEM, PORTABLE FIRE EXTINGUISHER PER NFPA 10</p> <p>ELECTRICAL ROOM (ENCLOSED) :NOT CLASSIFIED</p> <p>GRIT CHAMBER ABOVE COVERS (NOT ENCLOSED)- WITHIN 10' OF EQUIPMENT AND CHAMBERS : CLASS 1, DIV 2 ALL MATERIALS ARE LIMITED COMBUSTIBLE OR LOW FLAME SPREAD MATERIALS, PORTABLE FIRE EXTINGUISHER PER NFPA 10.</p> <p>GRIT CHAMBER (BELOW COVERS) : CLASS 1, DIV 1 ALL MATERIALS ARE NON COMBUSTIBLE, PORTABLE FIRE EXTINGUISHER PER NFPA 10</p> <p>EXISTING FIRE HYDRANT IS LOCATED ON SITE AT APPROX. 150 FEET FROM GRIT CLASSIFIER BUILDING.</p> <p>PER NFPA 820, 7.8.1; FIRE PROTECTION MEASURES DURING CONSTRUCTION AT BOTH NEW AND EXISTING FACILITIES SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 241.</p>
<p><b>2. BUILDING DESCRIPTION (IBC TABLE 504.3)</b></p> <p>BUILDING AREA: 900 SQUARE FEET BUILDING HEIGHT: ONE STORY, 25'-5" (LESS THAN 55 FEET)</p>	<p><b>MEANS OF EGRESS</b></p> <p>AREA - GSF: 1,403 GSF (INCLUDING COVERED LOADING AREA)</p> <p>AREA - GSF</p> <p><b>#OCCUPANTS/USE GROUP</b> 300/GSF FOR USE MECHANICAL ROOMS (TABLE 1004.1.2)</p> <p><b>#OCCUPANTS/BUILDING:</b> 1,403/300 = 5 OCCUPANTS NOTE: BUILDING HAS NO PERMANENT OCCUPANTS</p>
<p><b>3. OCCUPANCY AND EGRESS</b></p> <p>OCCUPANCY CATEGORY: CATEGORY III (TABLE 1604.5) WASTE WATER TREATMENT FACILITIES-GRIT CHAMBERS AND GRIT REMOVAL BUILDING</p>	<p><b>EXITS</b></p> <p>REQUIREMENT ONE (TABLE 1015.1-USE GROUP U-C49 OCCUPANTS) PROPOSED: ONE EXIT EACH FOR GRIT CLASSIFIER AND ELECTRICAL ROOM</p>
<p><b>3. FIRE RESISTANCE RATING</b></p> <p>REQUIREMENT: NOT REQUIRED PROPOSED: NONE</p>	<p><b>SMOKE DETECTORS:</b> SECTION 907.2.4 NOT REQUIRED FOR GROUP F-2</p> <p>INTERIOR FINISHES (IBC CHAPTER 8): ALL INTERIOR FINISHES SHALL BE IN COMPLIANCE WITH IBC CHAPTER 8 AND FURTHER SHALL CARRY A FLAME SPREAD RATING OF 25 OR LESS AND SMOKE DEVELOP RATE 450 OR LESS IN ACCORDANCE WITH ASTM E84. VENDOR CUT SHEETS (SHOP DWGS) SHALL CONTAIN VERIFICATION OF THE ABOVE AND SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AND A COPY BE MADE AVAILABLE ON SITE FOR THE BUILDING INSPECTOR.</p>
<p><b>4. USE GROUP AND CONSTRUCTION TYPES</b></p> <p>USE GROUP PROPOSED: F-1 FACTORY INDUSTRIAL MODERATE HAZARD OCCUPANCY</p> <p>CONSTRUCTION PROPOSED: TYPE IIB (NON-COMBUSTIBLE) USE F-2, TYPE II-B 3 STOREY AND 23,000 SQUARE FEET PROPOSED 1 STOREY AND 904 SQUARE FEET</p>	<p>PLUMBING FIXTURE: 0 (PLUMBING FIXTURE IS AVAILABLE IN ADJACENT BUILDING)</p> <p>EXIT SIGNS: ARE NOT REQUIRED EXIT SIGNS: PROVIDED BY CONTRACT</p> <p>EMERGENCY BATTERY BACKUP POWER SOURCE FOR MEANS OF EGRESS REQUIRED: ELECTRICAL ROOM ONLY PROVIDED: FOR THE ENTIRE BUILDING BY CONTRACT</p> <p>EGRESS LIGHTING REQUIRED: REQUIRED FOR ELECTRICAL ROOM EGRESS LIGHTING PROVIDED: ENTIRE BUILDING EMERGENCY LIGHTING SHALL BE A MINIMUM OF 1 FOOT CANDLE</p> <p>ASHRAE 90-1 2013 TABLE 5.5-4 <b>BUILDING INSULATION:</b></p> <p>ROOF: (INSULATION ENTIRELY ABOVE DECK) R30 c.i.(CONTINUOUS INSULATION)</p> <p>WALL ASSEMBLY: R19 FLOOR: BELOW SLAB INSULATION R15 ENVELOPE PASSES COMCHECK COMPLIANCE.</p>
<p>ACCESSIBILITY REQUIREMENTS: NOT REQUIRED NOT REQUIRED WHERE WORK CANNOT REASONABLY BE PERFORMED BY PERSONS HAVING A SEVERE IMPAIRMENT (NJAC 5:23-7.3(A)2)</p> <p>HOOR RATINGS TYPE IIB (TABLE 601) STRUCTURAL FRAME: ZERO BEARING WALLS (EXT.): ZERO (BETWEEN 10 FT AND 30 FT (TABLE 602) SEE BELOW)</p> <p>INTERIOR WALLS: ZERO FLOOR CONSTRUCTION: ZERO ROOF CONSTRUCTION: ZERO</p> <p>FIRE SEPARATION DISTANCE: REQUIRED ZERO (ALL TYPES - GREATER THAN 30 FT) PROPOSED ZERO (&gt;30 FT BETWEEN BUILDINGS)</p>	<p><b>FIRE PROTECTION SYSTEMS</b></p> <p>AUTOMATIC SPRINKLER SYSTEM 903.2.4 REQUIRED FOR GROUP F-1: IF &gt;3 STOREY, IF AREA &gt;12000 SF PROPOSED NONE</p> <p>FIRE EXTINGUISHERS WHERE SHOWN ON DRAWINGS TO COMPLY WITH IFC AND NFPA 10 SEE SPECS FOR TYPE</p> <p>FIRE ALARM (907.2.4) REQUIREMENT: GROUP F-1 PROPOSED: NOT REQUIRED</p>

<p>APPROVED:</p>  <p><b>Richard A. Alaimo</b> PROFESSIONAL ENGINEER NEW JERSEY LICENSE NO. 13195</p>	<table border="1"> <thead> <tr> <th>REVISIONS</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	REVISIONS	DATE	BY																 <p><b>RICHARD A. ALAIMO ENGINEERING COMPANY</b> Consulting Engineers NJDCA 24GA27988800 200 HIGH STREET MOUNT HOLLY, N.J. 2 MARKET STREET PATERSON, N.J.</p>	<p><b>GRIT CHAMBER UPGRADE</b></p> <p><b>GRIT CHAMBER &amp; GRIT CLASSIFIER BUILDING NOTES &amp; CODE ANALYSIS</b></p> <p>SCALE: AS NOTED</p>	<p>CLIENT: <b>WOODBIDGE TOWNSHIP</b></p> <p>PROJECT LOCATION: <b>WOODBIDGE TOWNSHIP MIDDLESEX COUNTY NEW JERSEY</b></p> <p>PROJECT NO.: <b>B-0726-0023-000</b></p> <p>CONTRACT NO.: <b>1230</b></p>	<p>DATE: <b>APRIL 2017</b></p> <p>DESIGNED BY: <b>AA</b></p> <p>DRAWN BY: <b>AA</b></p> <p>CHECKED BY:</p> <p>DEPT. HEAD:</p>	<p>SHEET <b>A00</b></p> <p>FILE NO.:</p>
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