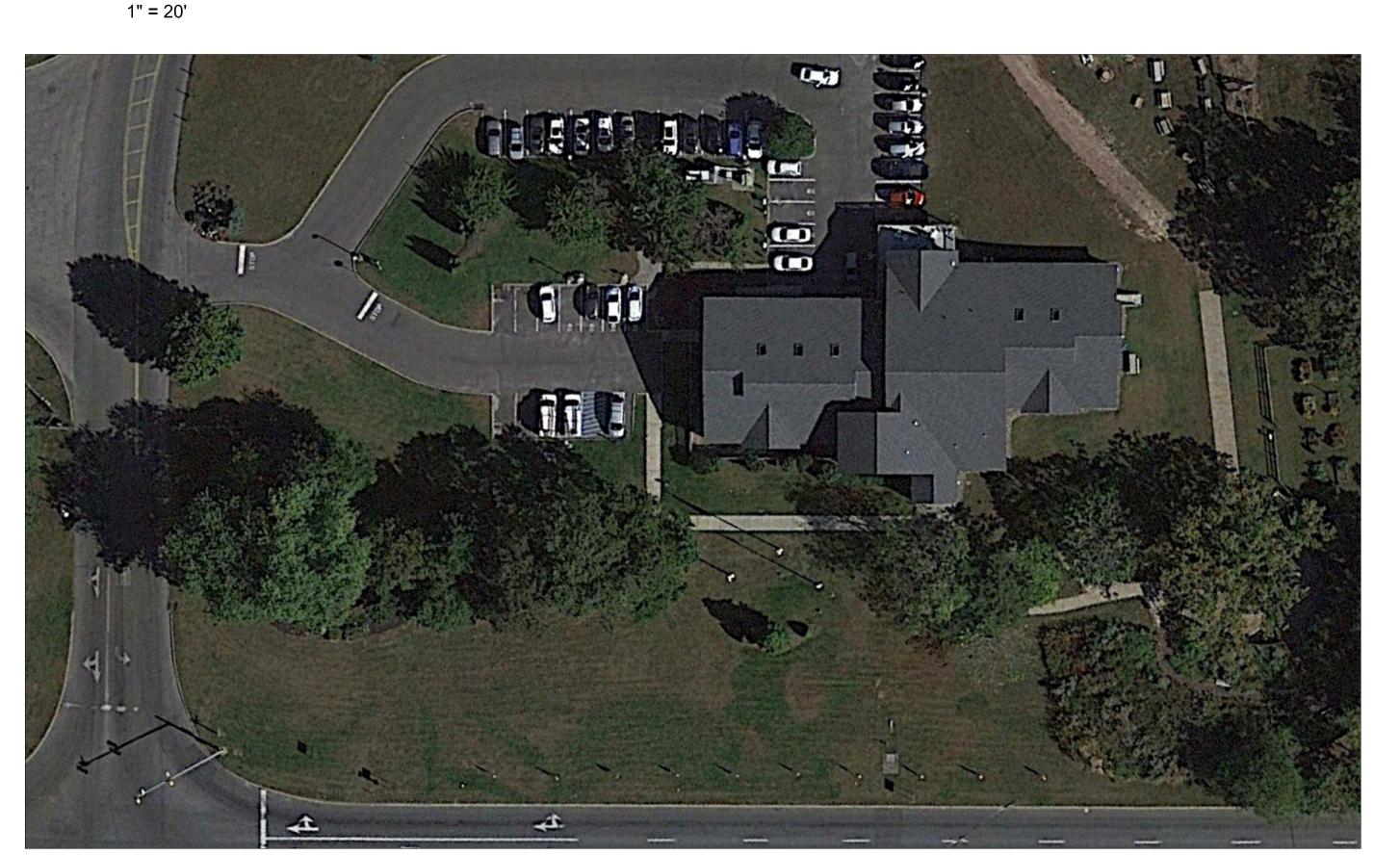


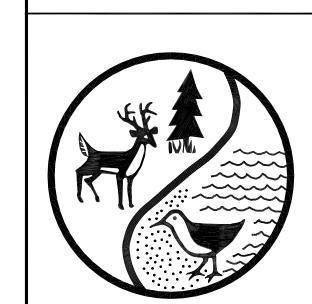
GEOTHERMAL BOREFIELD SITE PLAN

GENERAL NOTES:

- 1. CONTRACTOR TO PROVIDE LAYOUT OF PROPOSED BOREFIELD FOR APPROVAL BY THE ENGINEER PRIOR TO THE START OF CONSTRUCTION.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TREE/VEGETATION TRIMMING REQUIRED FOR THE OPERATION OF THE DRILL RIG. CARE SHALL BE TAKEN NOT TO DAMAGE EXISTING TREES/VEGETATION WHICH ARE NOT IN CONFLICT WITH THE BOREFIELD.
- 3. CONTRACTOR SHALL CALL FOR A UTILITY MARKOUT PRIOR TO ANY DRILLING OR EXCAVATION.
- 4. CONSTRUCTION SILT FENCE TO BE PLACED AROUND THE PERIMETER OF THE BOREFIELD PRIOR TO DRILLING OR EXCAVATION. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN AND PERFORM ANY REPAIRS ON THE SILT FENCE DURING CONSTRUCTION.
- 5. THE CONTRACTOR SHALL TAKE NECESSARY MEASURES TO MAINTAIN DUST CONTROL. VEHICLES SHALL BE CLEANED, AS NECESSARY, PRIOR TO USING PUBLIC STREETS. PAVED ROADS SHALL BE SPRINKLED WITH WATER IF NEED.
- 6. ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. SEDIMENT FILTER SHALL BE INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE DETAILS OF DESIGN AND CONSTRUCTION SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR TO THE ENGINEER FOR REVIEW.
- 7. THE ACUA ADMINISTRATION BUILDING IS OPEN TO THE PUBLIC. SAFE ACCESS SHALL BE MAINTAINED TO THE FRONT ENTRANCE WAY AT ALL TIMES DURING CONSTRUCTION.



EXISTING SITE AERIAL VIEW



APPROVALS:

ATLANTIC COUNTY **UTILITIES AUTHORITY**

6700 DELILAH ROAD EGG HARBOR TOWNSHIP, NJ 08234

THOMAS R. GANARD CHIEF ENGINEER

PROFESSIONAL ENGINEER NJ LICENSE NO. GE03526100 PROJECT NAME:

ACUA REBID GEOTHERMAL WELLFIELD **REPLACEMENT**

> ACUA PROJECT NO.: 2022-SW-07

REVISIONS DATE

DRAWN: CHECK:

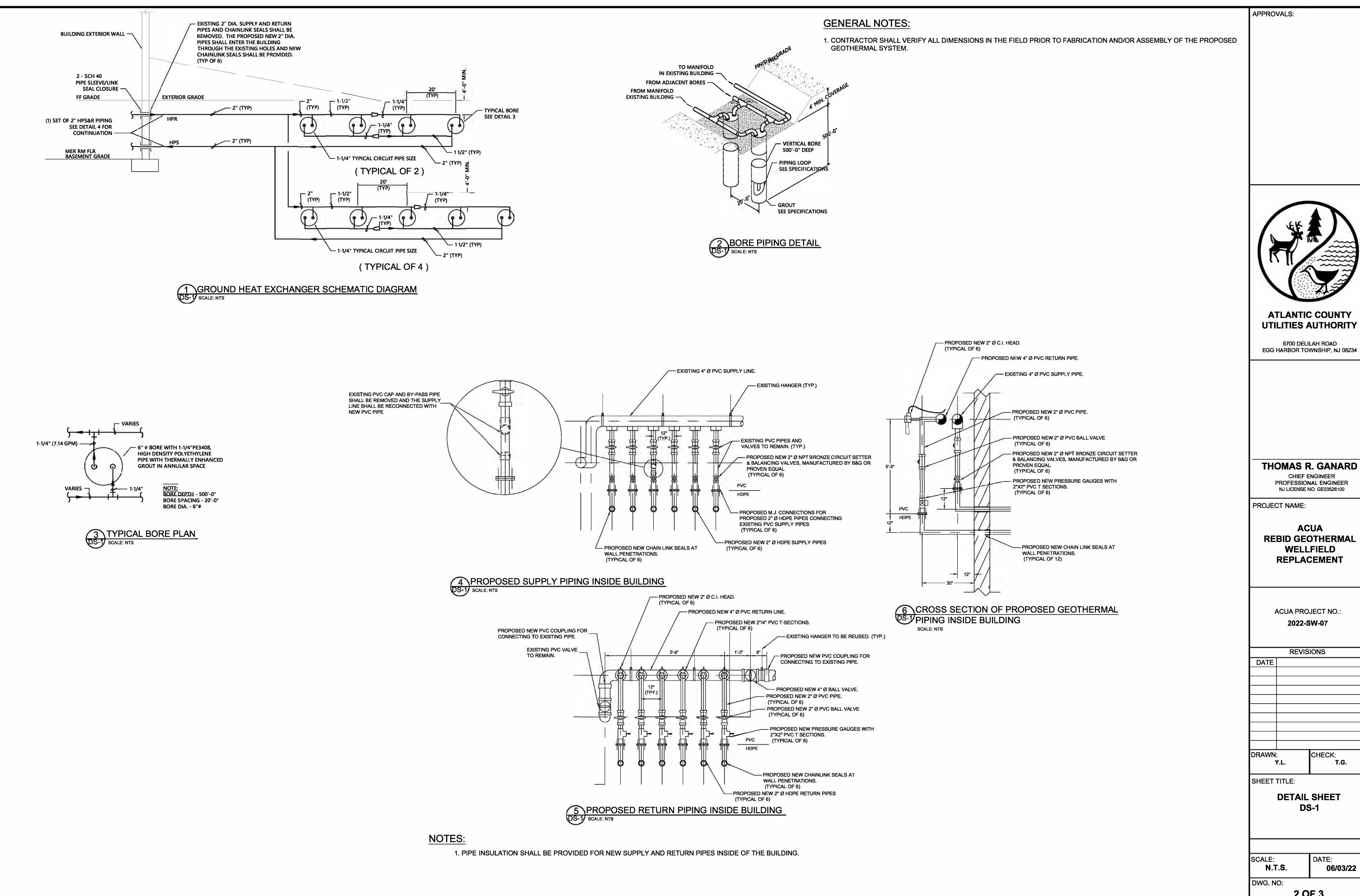
SHEET TITLE:

GEOTHERMAL BOREFIELD SITE PLAN

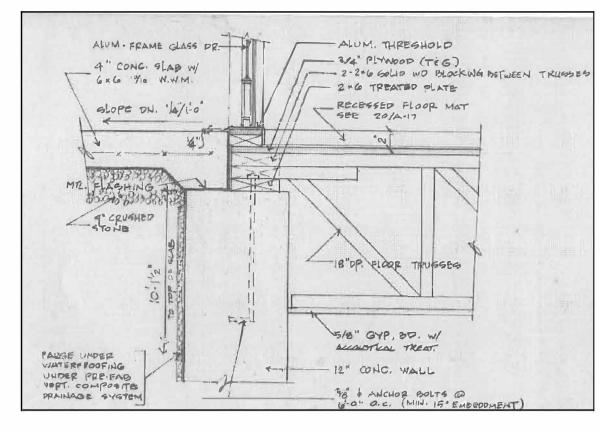
DATE: SCALE: AS SHOWN 06/03/22

DWG. NO:

1 OF 3



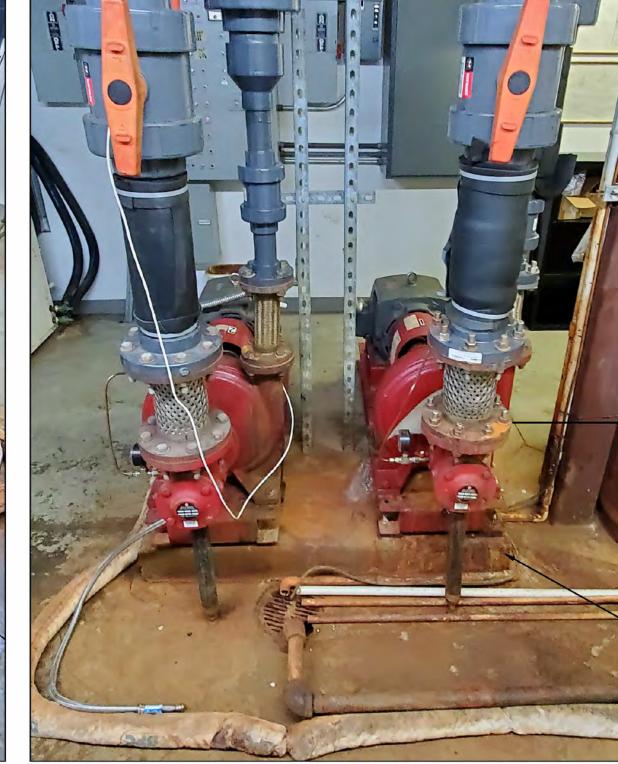
2 OF 3



NOTE: EXISTING 4" THICK CONCRETE SLAB W/ 6" X 6", 10/10 W.W.M. SHALL BE RESTORED TO ITS ORIGINAL CONDITION.

8 EXISTING CONCRETE SLAP DETAIL
DS-2 SCALE: NTS





EX. PUMP TRIM TO REMAIN

PROVIDE NEW SUCTION DIFFUSER AND PUMPS

CLEAN, REPAIR AND PAINT EXISTING PUMP **HOUSEKEEPING PAD**

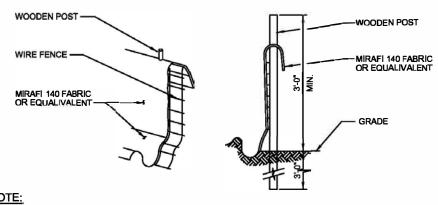
NOTES:

MANUFACTURE:	ITT BELL & GOSSETT, MORTON GROVE, IL, U.S.A.
MODEL:	2G 12.75 BF
SPECIFICATIONS:	200 G.P.M 160 F.T. 15 H.P. 1800 R.P.M.
	MAX. WORK PRESSURE: 175 P.S.I.
	208V / 3HP / 60HZ

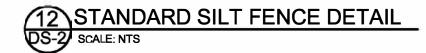
11 EXISTING PUMPS (2) TO BE REPLACED

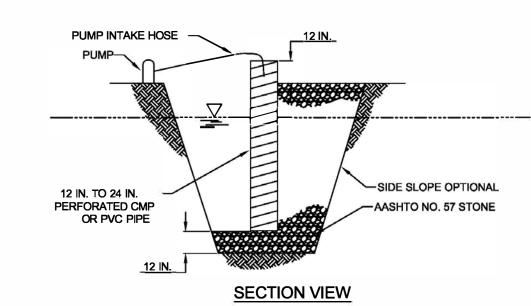
SCALE: NTS

1. THE EXISTING B&G 2G PUMP HAS BEEN DISCONTINUED. PROVIDE B&G e-1510, 2GB, 12.5 IMPELLER, 200GPM, 160'HD, 15 HP, 1750 RPM, 208V/3PH/60HZ OR PROVEN EQUAL. (PROVIDE VFD/DISCONNECT FOR BALANCING PURPOSES ONLY)



A SILT FENCE LIKE THIS TRAPS THE SEDIMENT IN RUNOFF WATER ON SITE WHILE PASSING RELATIVELY CLEAR WATER TYPICALLY IT IS MADE UP OF LIVESTOCK WIRE FENCE FASTENED ONTO WOODEN FENCE POSTS. A FILTER FABRIC SUCH AS CELANSE'S MIRAFI 140 OR CARTHAGE MILL'S POLLYFILTER-X, IS FASTENED TO THE FENCE. THE BOTTOM END OF THE FABRIC LAIND IN IT AND THE TRENCH BACKFILLED. THE SILT FENCE IS A TEMPORARY SILT CONTROL MEASURE IT IS REMOVED ONCE VEGETABLE COVER IS ESTABLISHED. EVENTUALLY, THE SUN'S RAYS WILL DEGRADE THE PLASTIC FILTER FABRIC.





LOCATE SUMP AT LOW POINT IN WORK AREA AND OUTSIDE OF CONSTRUCTION ACTIVITY. WHEREVER RUNOFF FROM A WORK AREA FLOWS DIRECTLY TO THE SUMP AREA, A FILTER BAG SHALL BE ATTACHED AT THE DISCHARGE POINT UNLESS PUMPING TO A SEDIMENT BASIN OR

MINIMUM DIAMETER OF PIT BOTTOM SHALL BE 24" LARGER THAN PIPE DIAMETER. MINIMUM DEPTH OF PIT SHALL BE 24" BELOW WATER LEVEL IN WORK AREA (INCLUDING THE AASHTO #57 STONE). 12" TO 24" PERFORATED CMP OR PVC PIPE SHALL BE SET ON 12" OF CLEAN AASHTO # 57 STONE.

VOID SPACE AROUND PIPE SHALL BE FILLED WITH AASHTO # 57 STONE. PIPE TO EXTEND 12" MIN. ABOVE TOP OF STONE AND/OR WATER BEING PUMPED FROM WORK AREA.

SET PUMP INTAKE INSIDE STANDPIPE.

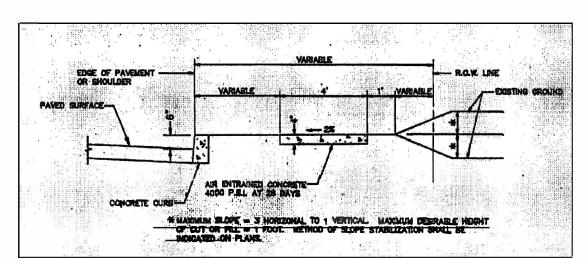
DISCHARGE FROM PUMP SHALL BE TO A STABLE AREA BELOW DISTURBANCES FROM THE WORK

SUMP MAY BE USED IN CONJUNCTION WITH FILTER BAG WHERE ADDITIONAL FILTERING IS NEEDED.

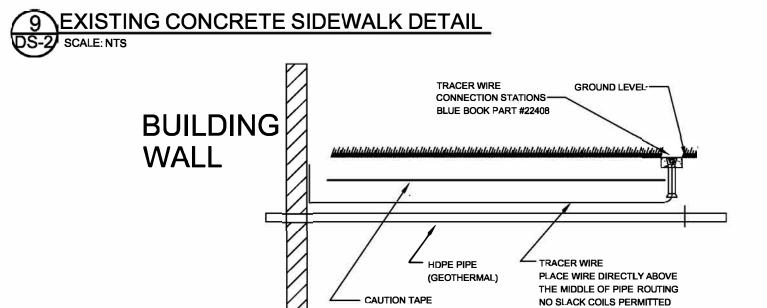


GENERAL NOTES:

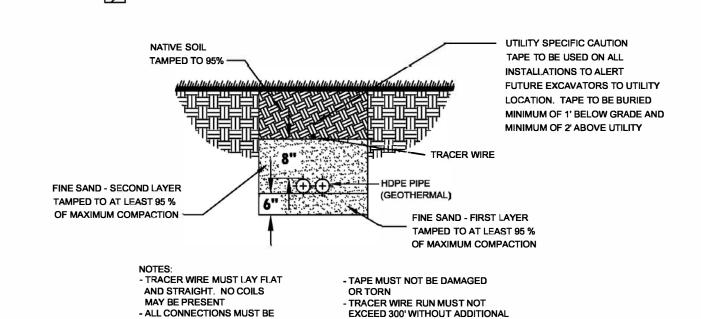
1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION AND/OR ASSEMBLY OF THE PROPOSED GEOTHERMAL SYSTEM.



NOTE: EXISTING 4" THICK CONCRETE SIDEWALK SHALL BE RESTORED TO ITS ORIGINAL CONDITION.

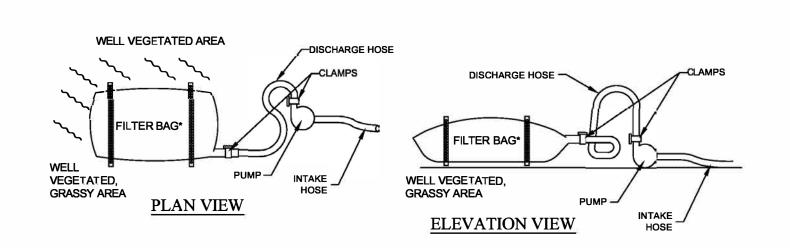


SOLDERED AND WATERTIGH



BLUEBOOK PART# 42759

10 TYPICAL TRENCH SECTION AND PROFILE DS-2 SCALE: NTS



- 1. FILTER BAGS SHALL BE MADE FROM NON-WOVEN GEOTEXTILE MATERIAL SEWN WITH HIGH STRENGTH, DOUBLE STITCHED "J" TYPE SEAMS. THEY SHALL BE CAPABLE OF TRAPPING PARTICLES LARGER THAN
- 2. A SUITABLE MEANS OF ACCESSING THE BAG WITH MACHINERY REQUIRED FOR DISPOSAL PURPOSES MUST BE PROVIDED. FILTER BAGS SHALL BE REPLACED WHEN THEY BECOME ½ FULL. SPARE BAGS SHALL BE KEPT AVAILABLE FOR REPLACEMENT OF THOSE THAT HAVE FAILED OR ARE FILLED.
- 3. BAGS SHALL BE LOCATED IN WELL-VEGETATED (GRASSY) AREAS, AND DISCHARGE ONTO STABLE, EROSION RESISTANT AREAS. WHERE THIS IS NOT POSSIBLE, A GEOTEXTILE FLOW PATH SHALL BE PROVIDED. BAGS SHALL NOT BE PLACED ON SLOPES GREATER THAN 5%.
- 4. THE PUMP DISCHARGE HOSE SHALL BE INSERTED INTO THE BAGS IN THE MANNER SPECIFIED BY THE MANUFACTURER AND SECURELY CLAMPED.
- 5. THE PUMPING RATE SHALL BE NO GREATER THAN 750 GPM OR ½ THE MAXIMUM SPECIFIED BY THE MANUFACTURER, WHICHEVER IS LESS. PUMP INTAKES SHOULD BE FLOATING AND SCREENED.
- 6. FILTER BAGS SHALL BE INSPECTED DAILY. IF ANY PROBLEM IS DETECTED, PUMPING SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL THE PROBLEM IS CORRECTED.

14 PUMPED WATER FILTER BAG_ DS-2 SCALE: NTS



APPROVALS:

ATLANTIC COUNTY UTILITIES AUTHORITY

6700 DELILAH ROAD EGG HARBOR TOWNSHIP, NJ 08234

THOMAS R. GANARD **CHIEF ENGINEER**

PROFESSIONAL ENGINEER

NJ LICENSE NO. GE03526100

PROJECT NAME:

ACUA REBID GEOTHERMAL WELLFIELD REPLACEMENT

> **ACUA PROJECT NO.: 2022-SW-0**7

REVISIONS		
DATE		

Y.L. T.G.

SHEET TITLE:

DRAWN:

DETAIL SHEET DS-2

CHECK:

SCALE: N.T.S.

DWG. NO:

DATE: 06/03/22

3 OF 3