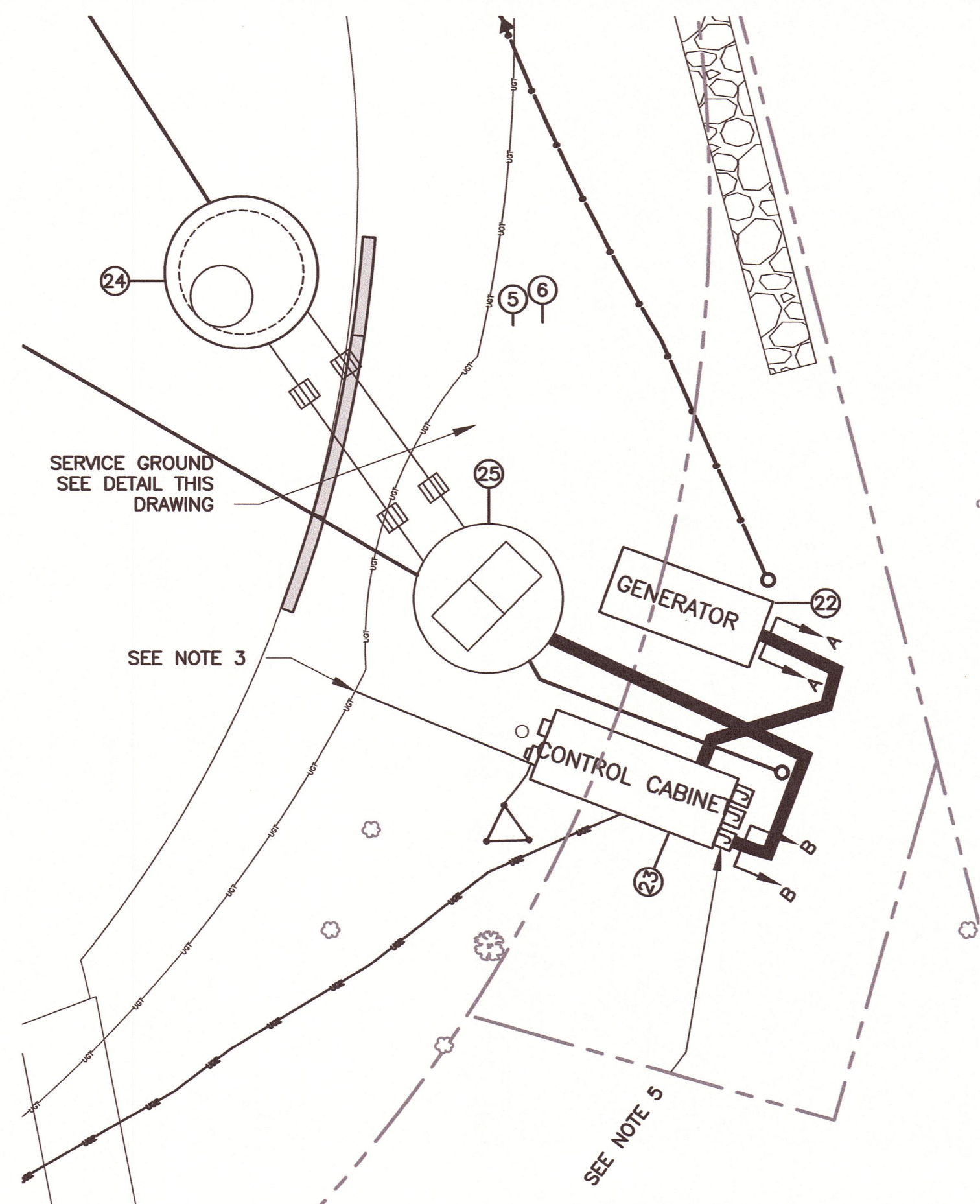
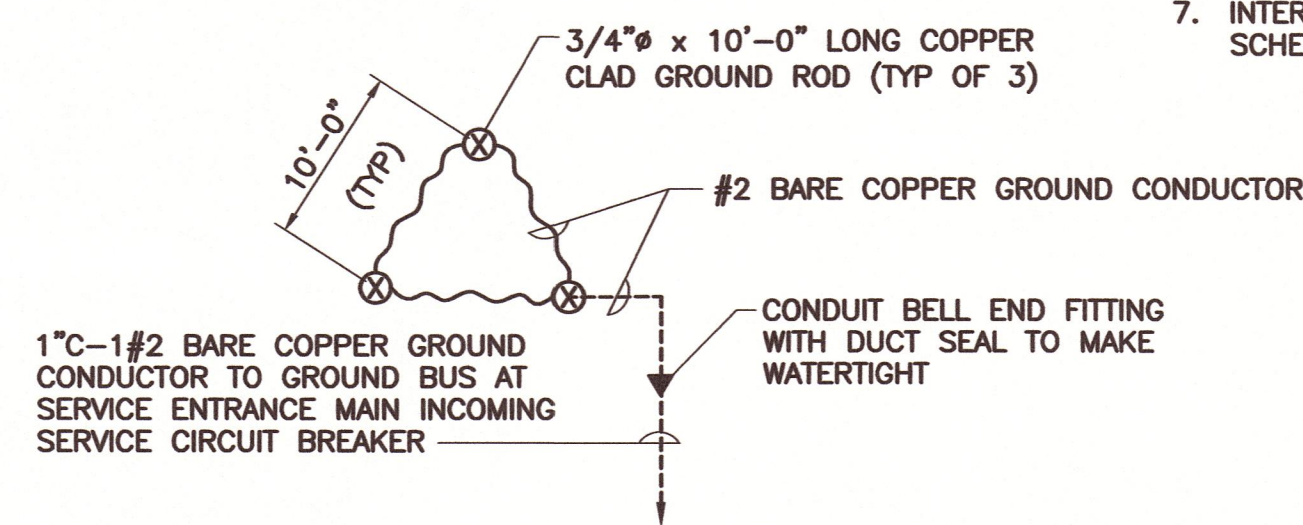


**BRIGHAM ROAD
ELECTRICAL DEMOLITION SITE PLAN**
SCALE: 1" = 5'

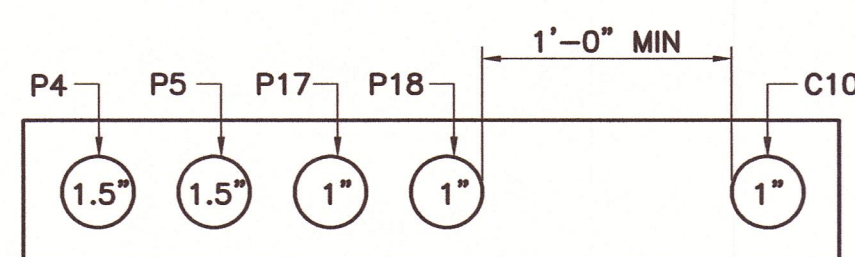
1 3



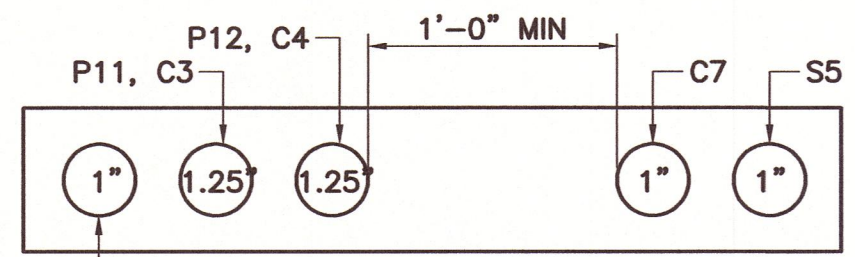
**BRIGHAM ROAD
ELECTRICAL MODIFICATION SITE PLAN**
SCALE: 1" = 5'



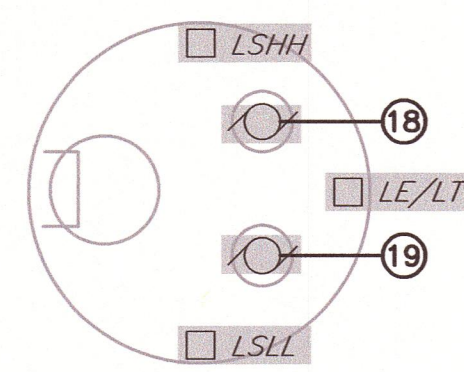
SERVICE GROUND SYSTEM PLAN DETAIL
NTS



DUCT BANK SECTION A-A
NTS

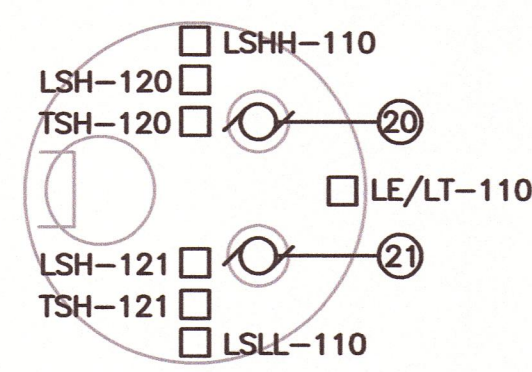


DUCT BANK SECTION B-B
NTS



WET WELL DEMOLITION PLAN
NTS

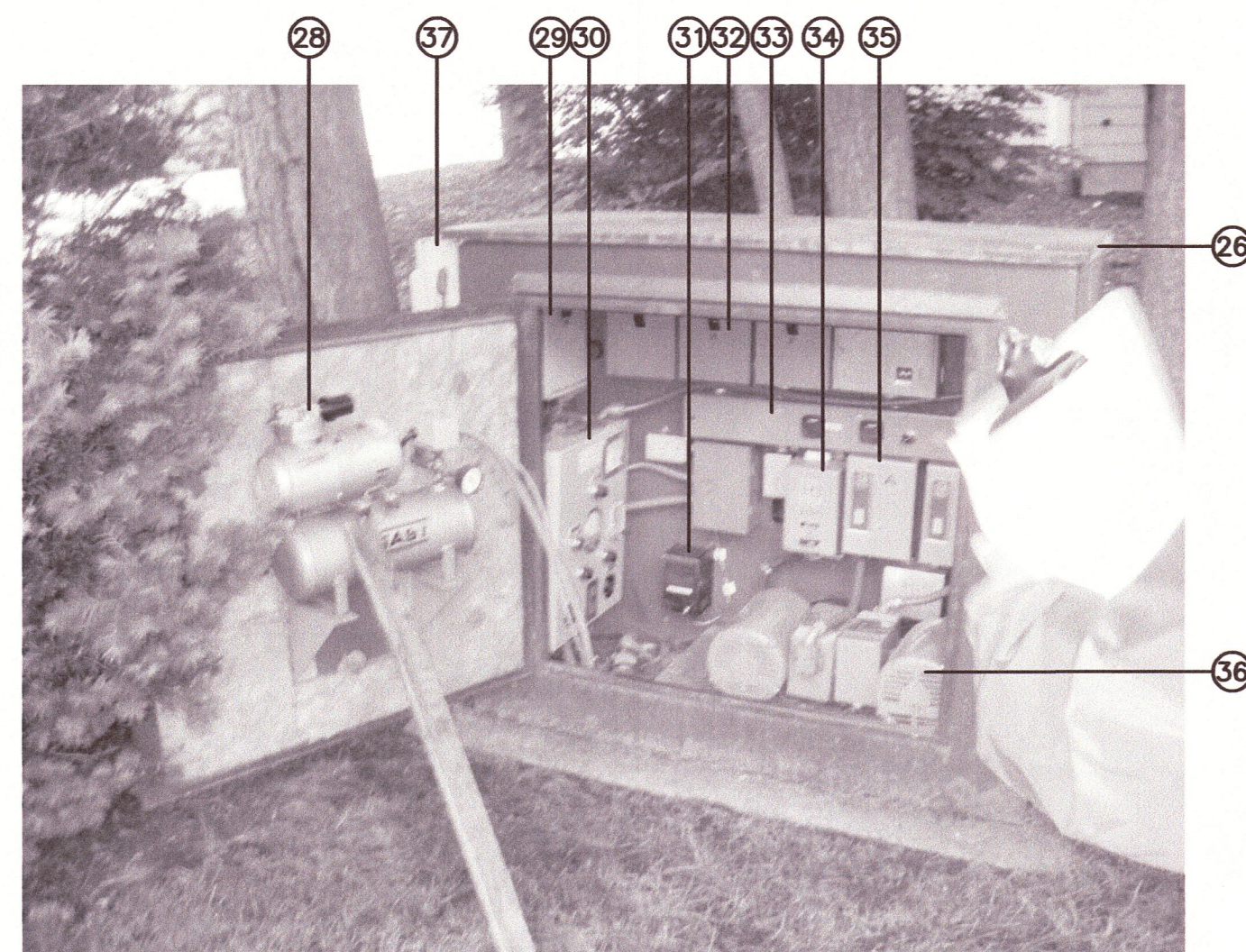
1 6



WET WELL MODIFICATION PLAN
NTS

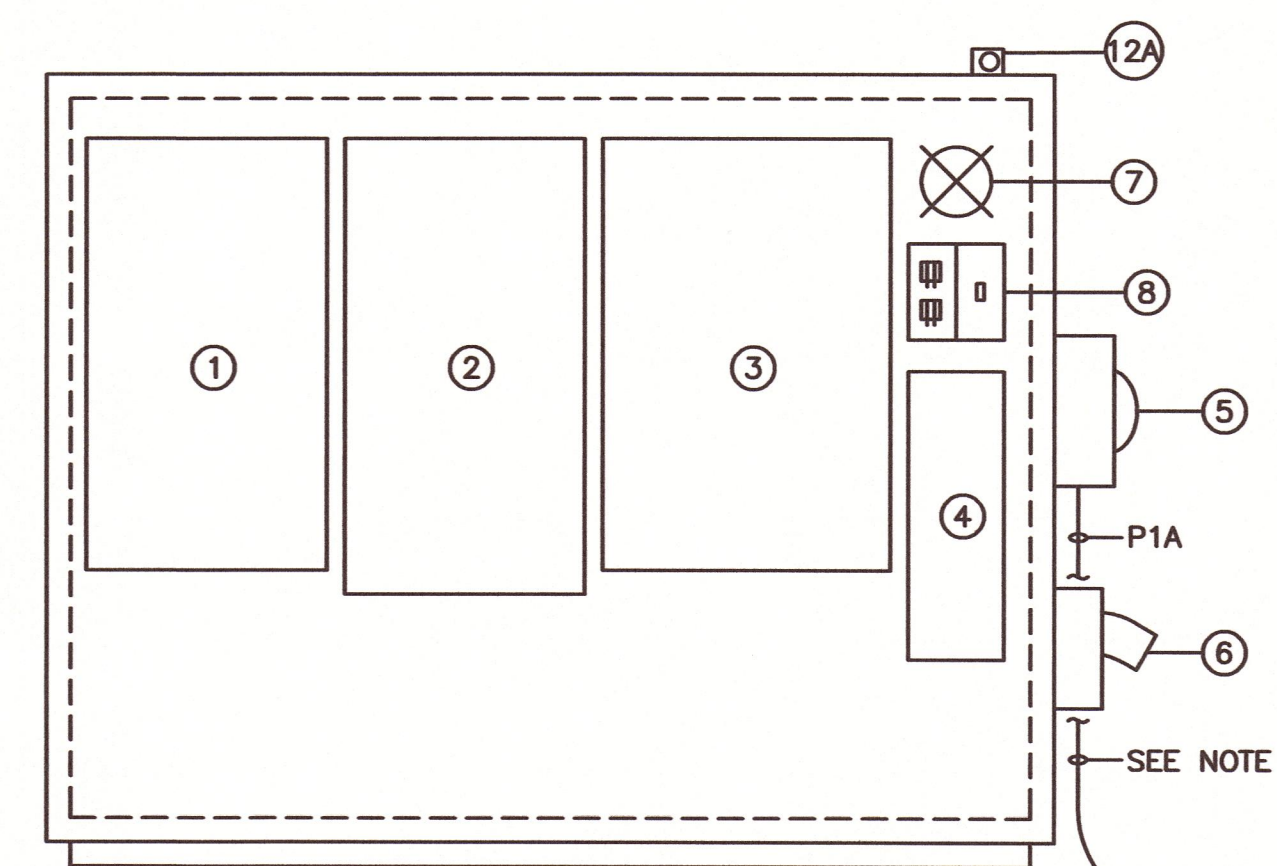
DUCT BANK SECTION NOTES:

- CONDUITS SHALL BE SIZED AS INDICATED ON THE CONDUIT AND WIRE SCHEDULE EXCEPT AS SHOWN IN THE DUCT BANK.
- ALL SIGNAL CONDUITS SHALL BE RIGID GALVANIZED STEEL THE ENTIRE LENGTH AND PVC COATED WHERE SPECIFIED.
- PROVIDE SPARE CONDUITS AS INDICATED AND PROVIDE CONDUIT CAPS ON BOTH ENDS OF RACEWAY TO ENSURE A WATERTIGHT SEAL.
- MAINTAIN 12" DISTANCE BETWEEN POWER CONDUITS AND CONTROL/SIGNAL CONDUITS.

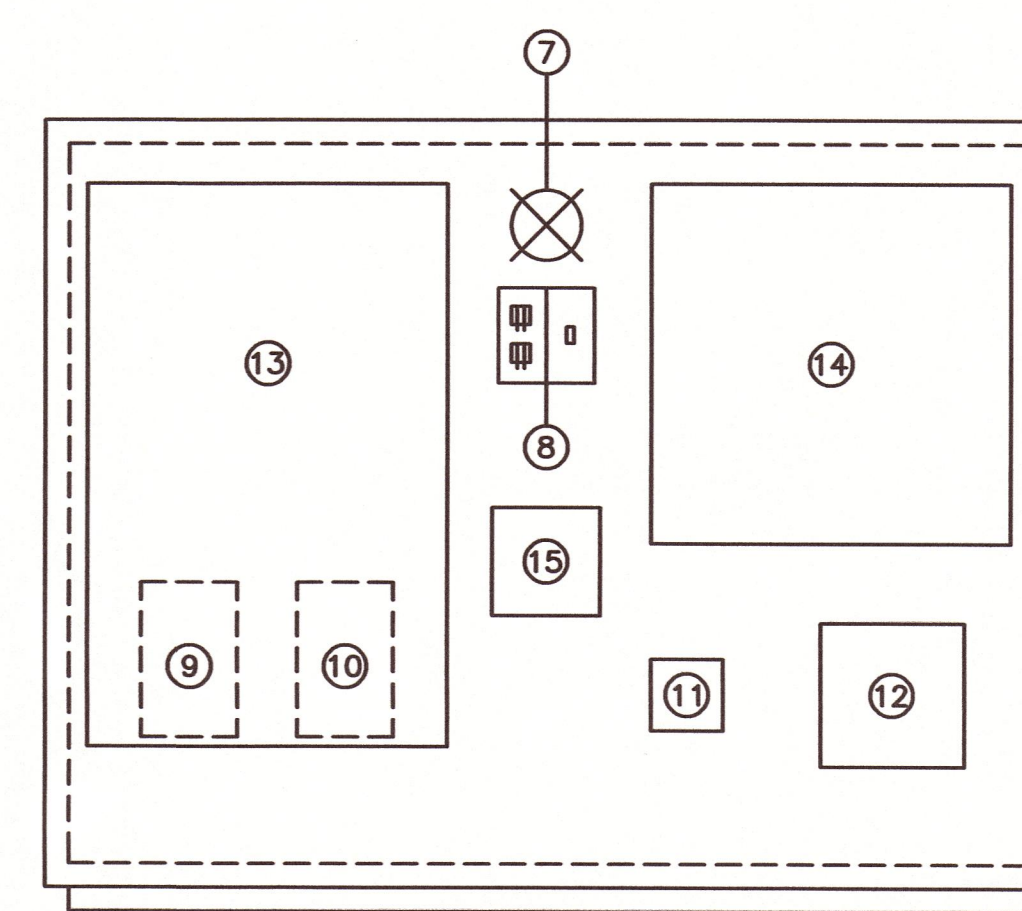


EXISTING ELECTRICAL ENCLOSURE

1 4



ELECTRICAL ENCLOSURE ELEVATION (REAR)
NTS



ELECTRICAL ENCLOSURE ELEVATION (FRONT)
NTS

DEMOLITION NOTES:

- INFORMATION CONTAINED IN THESE PLANS HAS BEEN OBTAINED IN PART FROM EXISTING PUMP STATION ELECTRICAL DRAWINGS AND SITE VISITS. THE CONTRACTOR SHALL FIELD VERIFY ALL INFORMATION AND CIRCUITRY AFFECTING HIS WORK PRIOR TO COMMENCING THE WORK FOR THIS CONTRACT.
- COORDINATE ALL DEMOLITION WORK REQUIREMENTS WITH THE RESPECTIVE UTILITY COMPANY.
- NEW ELECTRICAL SERVICE. REFER TO THE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY.
- DISCONNECT AND REMOVE IN ITS ENTIRETY THE EXISTING BELOW GRADE SERVICE, ELECTRICAL EQUIPMENT ENCLOSURE, UTILITY METER, MANUAL TRANSFER SWITCH, MAIN BREAKER, JUNCTION BOX, PORTABLE GENERATOR RECEPTACLE, AND ALL UNDERGROUND POWER, CONTROL, AND INSTRUMENTATION RACEWAYS, INCLUDING ALL WIRING, CONDUIT, MOUNTING BRACKETS AND HARDWARE FOR A COMPLETE DEMOLITION. PROVIDE NEW CONDUIT AND WIRING AS SHOWN ON THE MODIFICATION DRAWING.
- EXISTING PUMP STATION SHALL REMAIN OPERATIONAL AT ALL TIMES DURING CONSTRUCTION AND THE ELECTRICAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE GENERAL CONTRACTOR FOR ALL ELECTRICAL REQUIREMENTS ASSOCIATED WITH MAINTAINING BYPASS PUMPING AT ALL TIMES DURING THE SEQUENCE OF CONSTRUCTION AND DURATION OF THIS PROJECT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- DISCONNECT AND REMOVE IN ITS ENTIRETY THE EXISTING LEVEL SWITCHES AND ALL INSTRUMENTATION WIRING, SUPPORT BRACKETS, AND EXPOSED CONDUIT FOR A COMPLETE DEMOLITION. CUT AND CAP EMPTY CONDUITS AT WELL ENTRANCE AND AT GRADE.

NOTES:

- FOR ELECTRICAL LEGEND, ABBREVIATIONS, NEMA CLASSIFICATIONS AND NOTES, REFER TO DRAWINGS E-1.
- FOR ADDITIONAL DEMOLITION NOTES REFER TO DRAWING E-1.
- COORDINATE RECONNECTION TO EXISTING UNDERGROUND ELECTRICAL SERVICE WITH UTILITY COMPANY.
- GROUND GENERATOR AS SHOWN IN DETAIL ON DRAWING E-4.
- PROVIDE POWER, SIGNAL, AND CONTROL JUNCTION BOXES. SEE CIVIL DRAWING FOR MOUNTING DETAILS.
- ENCLOSURE SIZE SHOWN IS 84"W X 66"H X 36"D. ELECTRICAL CONTRACTOR SHALL PROVIDE LARGER ENCLOSURE AS NECESSARY TO FIT ALL SPECIFIED EQUIPMENT. REFER TO SPECIFICATION SECTION 16160 FOR MORE DETAILS.
- INTERNAL PANEL CONDUITS ARE NOT SHOWN FOR CLARITY. PLEASE SEE CONDUIT AND WIRE SCHEDULE ON SHEET E-4.

EQUIPMENT LEGEND

- 240V DISTRIBUTION PANEL MDP-1
- MANUAL TRANSFER SWITCH PGMTS-1
- AUTOMATIC TRANSFER SWITCH ATS-1
- MCB-1
- UTILITY METER
- GENERATOR RECEPTACLE PGREC-1
- ENCLOSURE LIGHT (CFL)
- CONVENIENCE RECEPTACLE/SWITCH
- PUMP NO. 1 VFD (WITHIN PCP)
- PUMP NO. 2 VFD (WITHIN PCP)
- SPACE HEATER (SIZED PER SPEC 16160)
- MISSION ALARM PANEL TO BE RELOCATED
- ANTI-THEFT CELLULAR ANTENNA
- PUMP CONTROL PANEL (PCP)
- MAIN CONTROL PANEL (MCP) (DIV 13)
- INTRINSICALLY SAFE RELAY PANEL IS-1
- NOT USED
- NOT USED
- PUMP TO BE REMOVED
- PUMP TO BE REMOVED
- PUMP NO. 1
- PUMP NO. 2
- GENERATOR (SEE NOTE 4)
- ELECTRICAL ENCLOSURE (SEE NOTE 6)
- VALVE VAULT
- WETWELL
- ELECTRICAL ENCLOSURE TO BE REMOVED
- WETWELL TO BE REMOVED
- AIR COMPRESSOR TO BE REMOVED
- MAIN DISCONNECT TO BE REMOVED
- OMNI PUMP CONTROL PANEL TO BE REMOVED
- HEATER TO BE REMOVED
- CIRCUIT BREAKERS (TYP) TO BE REMOVED
- WIREWAY AND HOA TO BE REMOVED
- MOTOR CIRCUIT BREAKER (TYP) TO BE REMOVED
- MOTOR DISCONNECT (TYP) TO BE REMOVED
- PHASE CONVERTER (TYP) TO BE REMOVED
- UTILITY METER AND TRANSFER SWITCH TO BE REMOVED

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF THE INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

NO.	ISSUED FOR	DATE
1	ISSUED FOR BID	KMO 11/14
2	RECORD DRAWINGS	BAY 07/16

DESIGNED BY: LJC
 CAD: SCY
 CHECKED BY: SAL
 DATE: 11/23/14
 APPROVED BY: SAL
 DATE: 11/14/14
 PROJECT NO: 12938A

STATE OF MASSACHUSETTS
 BARBARA A. WRIGHT
 REGISTERED PROFESSIONAL ENGINEER
 LICENSE NO. 12938A

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TOWN OF LEXINGTON, MA
 BRIGHAM ROAD WASTEWATER
 PUMP STATION UPGRADE

ELECTRICAL DEMOLITION AND MODIFICATION SITE PLANS
 AND ELECTRICAL ELEVATIONS

DRAWING
 E-3