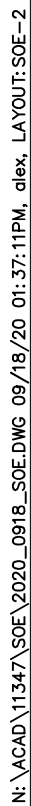


SES CONSULTING ENGINEERS D.P.C.		SOILS / FOUNDATIONS SITE DESIGN ENVIRONMENTAL		dwg by: YJ chk by: KQ scale: AS NOTED date: 08/21/2020	
12A MAPLE AVE. PINE BROOK, N.J. 07068 PH: 973-808-9050		KENNETH GUZZA, P.E. PROFESSIONAL ENGINEER N.Y. LIC. NO. 64669		7 FAIRLAWN AVENUE, DOBBS FERRY, NY	
SUPPORT OF EXCAVATION PLAN		title:		job no. 11347 drawing no.	
SOE-1		1 of 3			



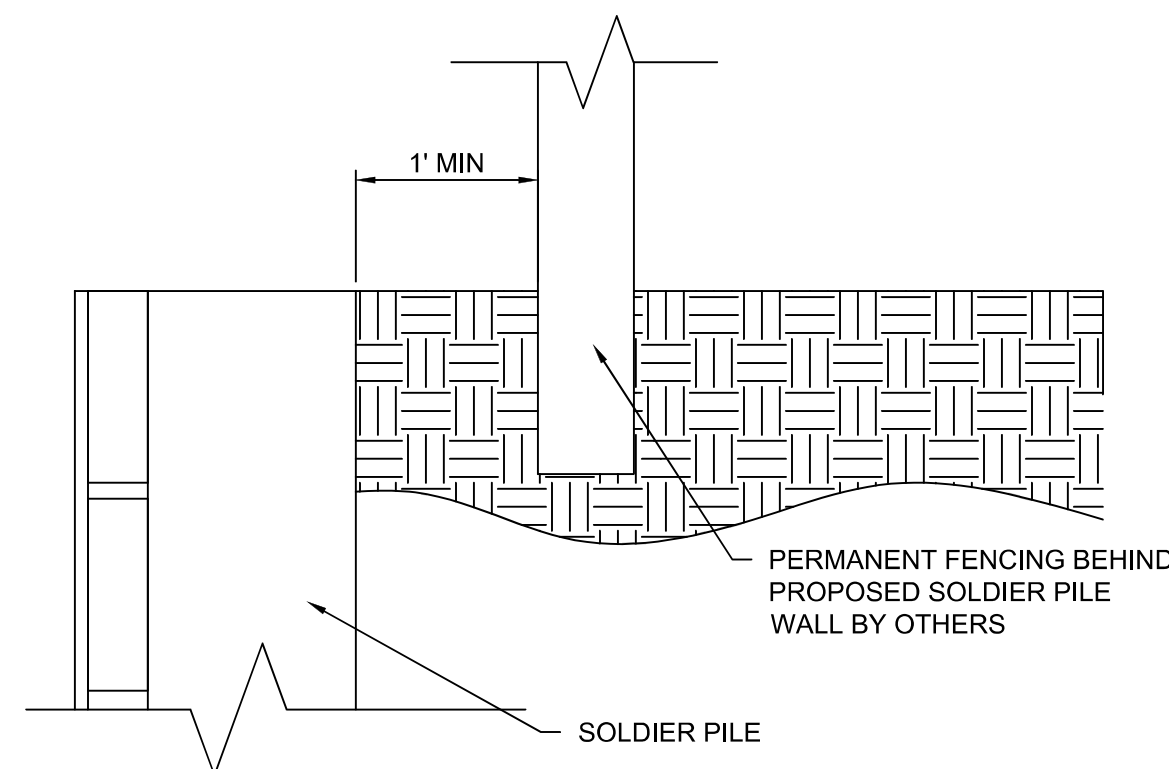
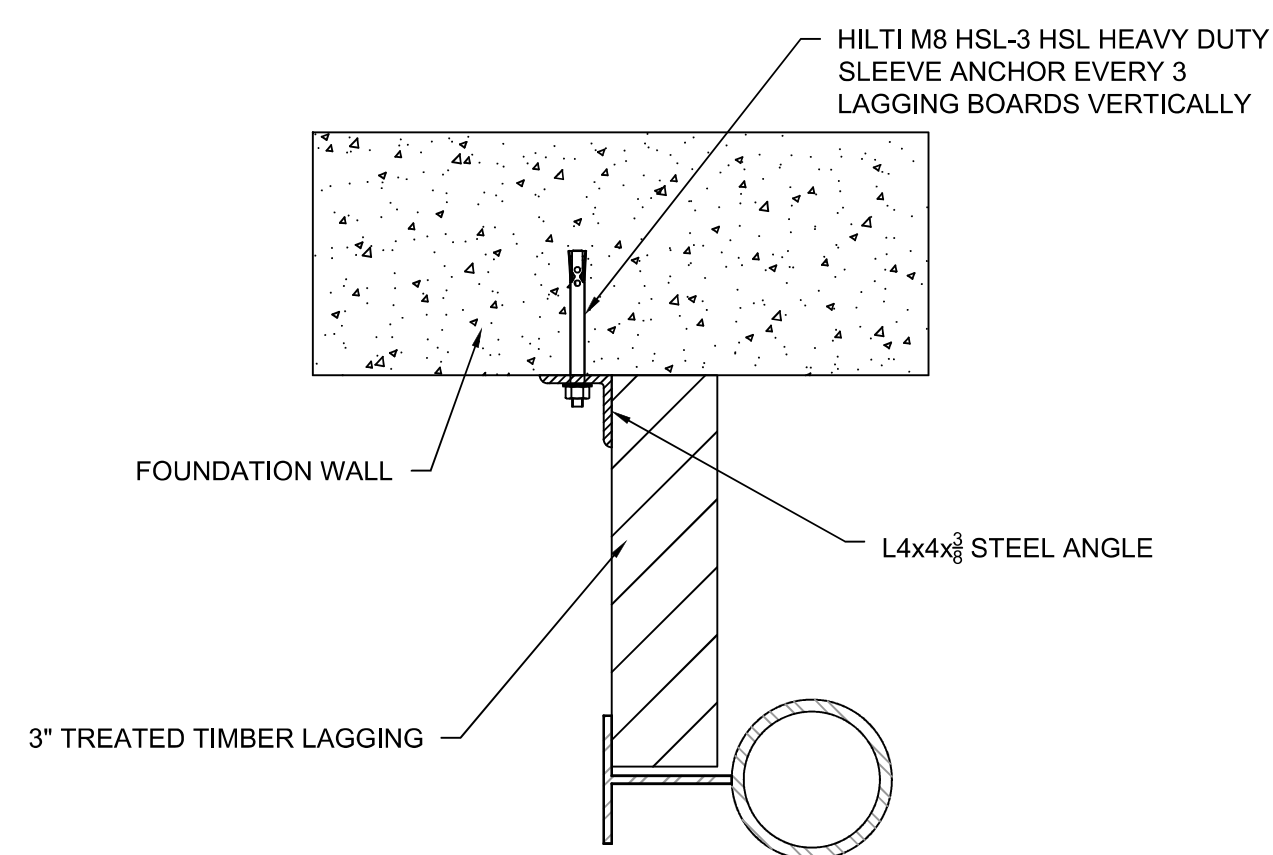
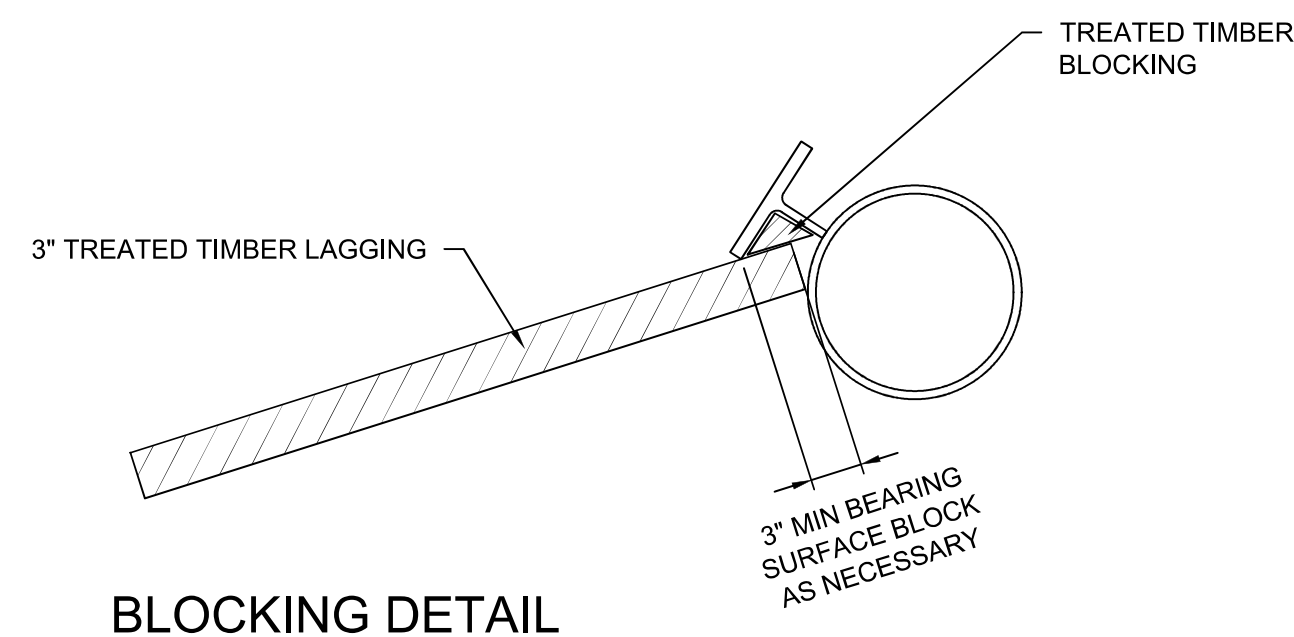
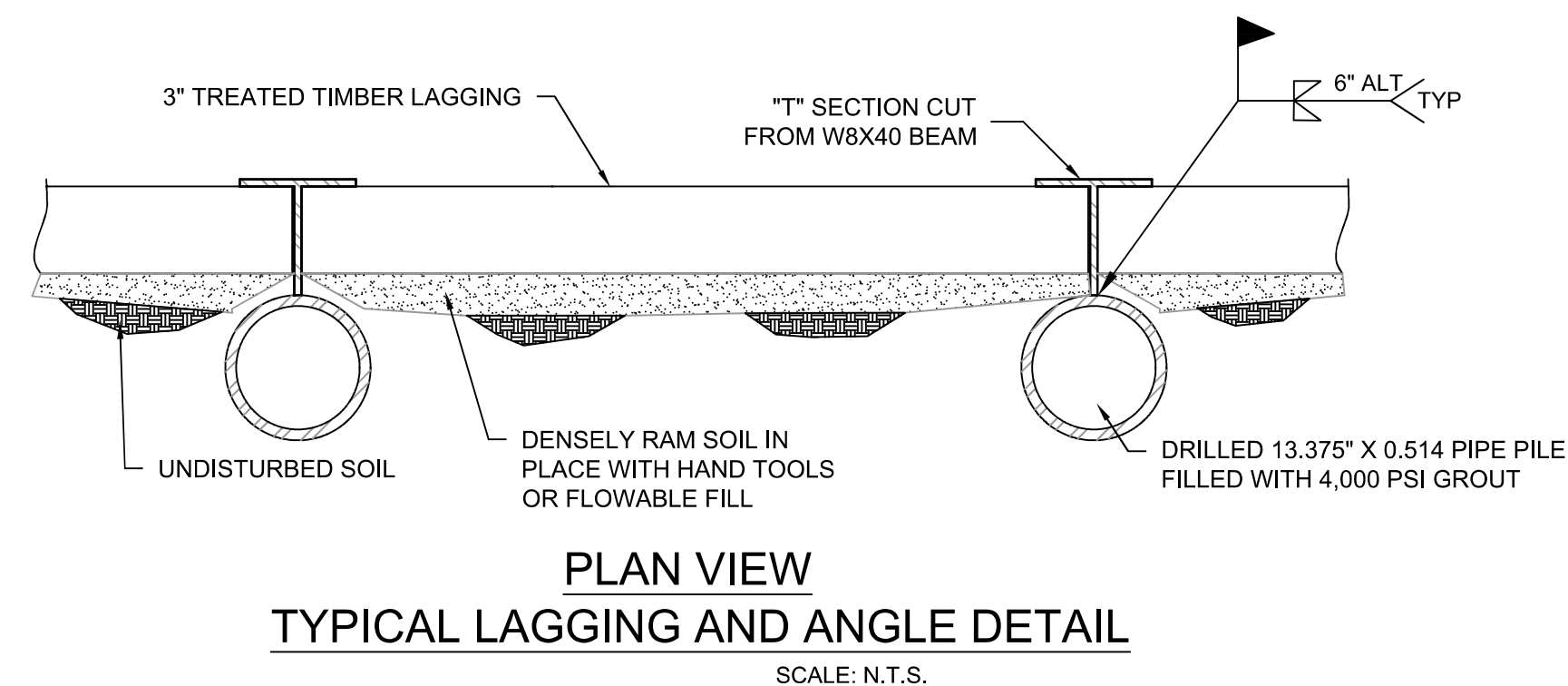
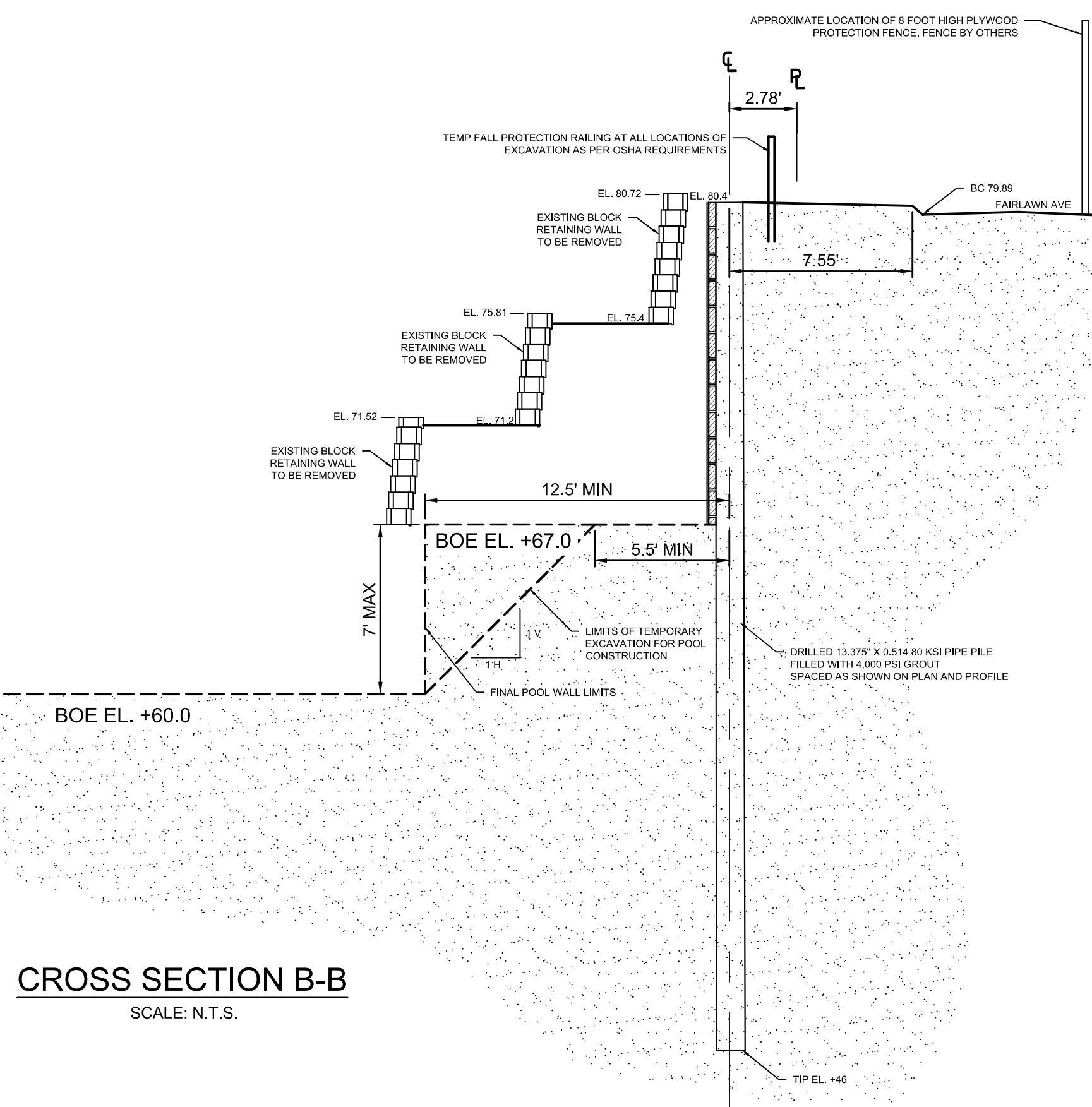
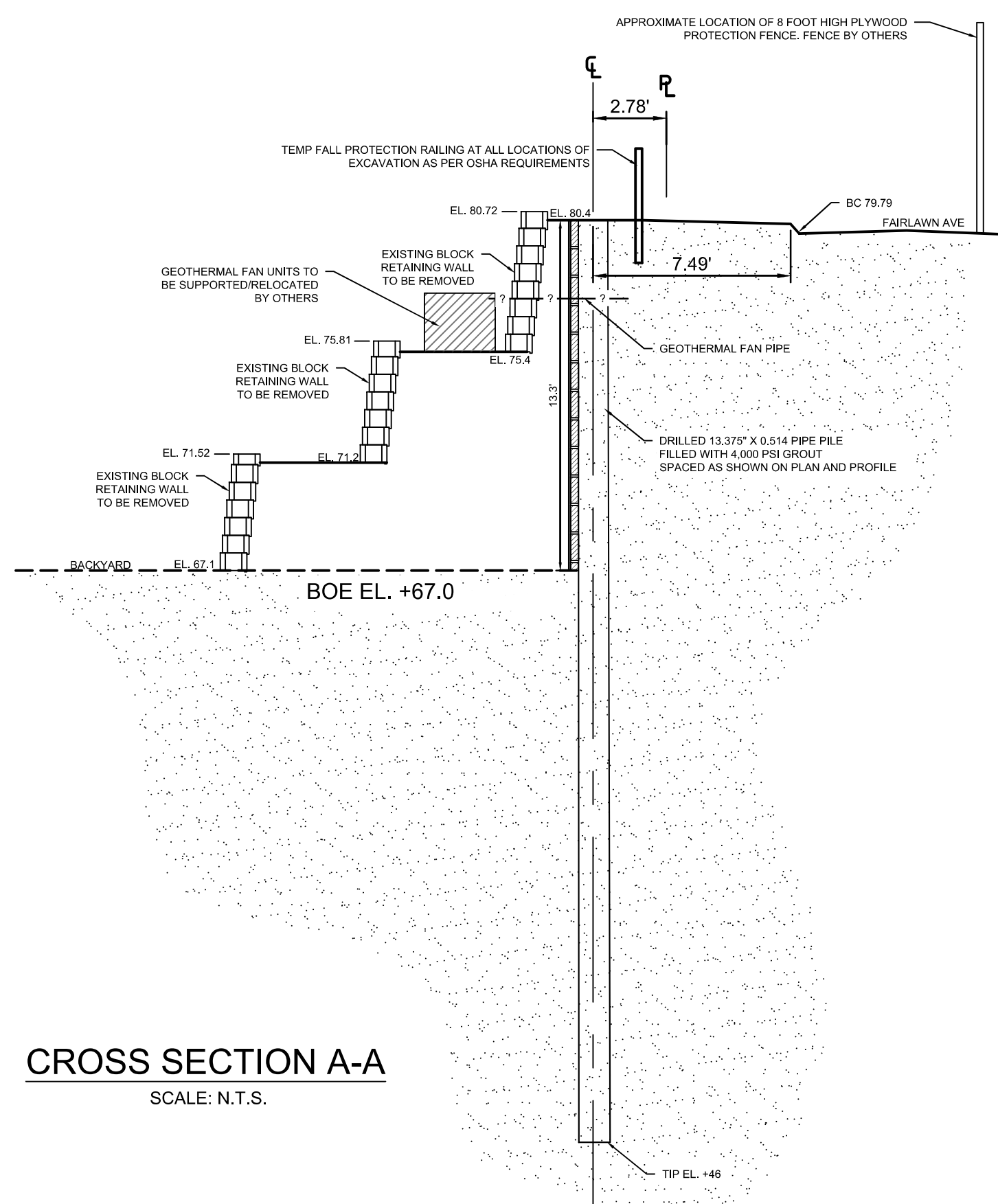
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7 FAIRLAWN AVENUE,
DOBBS FERRY, NY

SUPPORT OF EXCAVATION PROFILE

Job no. 11347
drawing no.

SOE-2



- GENERAL**
1. WHERE REFERRED TO THE ENGINEER SHALL BE A REPRESENTATIVE OF SESI CONSULTING ENGINEERS
 2. ALL WORK PERFORMED IN CONNECTION WITH SOLDIER BEAM AND LAGGING SHOWN ON THESE DRAWINGS SHALL ADHERE TO THE APPLICABLE PROVISIONS OF THE CITY OF DOBBS FERRY, THE 2018 INTERNATIONAL BUILDING CODE, REGULATIONS OF THE NEW YORK STATE DEPARTMENT OF LABOR, AND REQUIREMENTS OF OSHA.
 3. NOTICE SHALL BE PROVIDED TO ADJOINING PROPERTY OWNERS BY THE OWNER'S REPRESENTATIVE IN ACCORDANCE WITH SECTION 3307.1 OF THE 2015 IBC NYS EDITION.
 4. PRIOR TO COMMENCEMENT OF INSTALLATION OF SOLDIER BEAM AND LAGGING SYSTEM AND THE UNDERPINNING OPERATION:
 - I. MAKE VISUAL INSPECTION WITH PHOTO DOCUMENTATION OF ALL ADJOINING STRUCTURES.
 - II. MONITORING OF YOUR RESIDENCE TO BE PERFORMED BY THE OWNER.
 - III. MONITORING OF YOUR RESIDENCE INCLUDES VERTICAL AND HORIZONTAL MONITORING.
 5. PROPER NOTICES SHALL BE GIVEN TO THE SPECIAL INSPECTION AGENCY BY THE OWNER'S REPRESENTATIVE FOR THE PERFORMANCE OF THE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1704 OF THE 2018 IBC BUILDING CODE.
 6. THE PERMANENT SUPPORT SYSTEM WAS DESIGNED AS A CANTILEVER SOLDIER BEAM USING ACTIVE EARTH PRESSURES AND A UNIFORM CONSTRUCTION SURCHARGE BEHIND THE WALL. THE DESIGN PROCEDURES AND APPROPRIATE SURCHARGES FOLLOW THE METHODS ILLUSTRATED IN THE NEW YORK CITY TRANSIT AUTHORITY FIELD DESIGN STANDARDS 1986.
 7. SESI CONSULTING ENGINEERS HAS BEEN RETAINED TO PERFORM SPECIAL INSPECTIONS FOR THE WORK SHOWN ON THESE DRAWINGS, SPECIFICALLY:
 - I. EXCAVATION – SHEETING, SHORING AND BRACING SECTION 1705.7 SECTION 3307
 - II. DEEP FOUNDATION ELEMENTS SECTION 1705.7 SECTION 1705.3
 - III. GROUTING OF PILES SECTION 1705.3
 8. PERIMETER FENCING AND OTHER PROTECTION SHALL BE PROVIDED ALONG THE PERIMETER OF THE CONSTRUCTION SITE BOTH DURING AND AFTER WORKING HOURS, PROPERLY MARKED AND LIGHTED.
 9. SESI CONSULTING ENGINEERS SHALL BE ADVISED OF CONFLICTS BETWEEN THIS DRAWING AND ACTUAL FIELD CONDITIONS, PARTICULARLY HORIZONTAL CLEARANCES TO EXISTING CONSTRUCTION. ELEVATIONS OF COMPLETED CONSTRUCTION ARE SHOWN FOR GUIDANCE ONLY. THESE DRAWINGS SHALL BE WORKED IN CONJUNCTION WITH THE CONTRACT DRAWINGS TO ASSURE PROPER COORDINATION.
 10. A COMPETENT PERSON WHO IS A REPRESENTATIVE OF THE CONTRACTOR SHALL INSPECT THE SUBGRADE OF THE EXCAVATION, ALL BRACING AND BLOCKING AND EXISTING ADJACENT STRUCTURES TAKEN FROM A MARCH 20, 2016 DRAWING TITLED PARTIAL TOPOGRAPHIC SURVEY PREPARED BY TECTONIC ENGINEERING AND SURVEYING CONSULTANTS P.C. PROTECTED BY THE PERMANENT RETAINING SYSTEM.

OSHA 29CFR 1926.650 & 1926.651 ET. SEQ

 - I. 1926.651(K)(1)

"DAILY INSPECTIONS OF EXCAVATIONS, THE ADJACENT AREAS, AND PROTECTIVE SYSTEMS SHALL BE MADE BY A COMPETENT PERSON FOR EVIDENCE OF A SITUATION THAT COULD RESULT IN POSSIBLE CAVE-INS, INDICATION OF FAILURE OF PROTECTIVE SYSTEMS, HAZARDOUS ATMOSPHERES, OR OTHER HAZARDOUS CONDITIONS. AN INSPECTION SHALL BE CONDUCTED BY A COMPETENT PERSON PRIOR TO THE START OF WORK AND AS NEEDED THROUGHOUT THE SHIFT. INSPECTIONS SHALL ALSO BE MADE AFTER EVERY RAINSTORM OR OTHER HAZARD INCREASING OCCURRENCE. THESE INSPECTIONS ARE ONLY REQUIRED WHEN EMPLOYEE EXPOSURE CAN BE REASONABLY ANTICIPATED"
 - II. 1926.650 (B)

"COMPETENT PERSON MEANS ONE WHO IS CAPABLE OF IDENTIFYING EXISTING AND PREDICTABLE HAZARDS IN THE SURROUNDS, OR WORKING CONDITIONS WHICH ARE UNSANITARY, HAZARDOUS, OR DANGEROUS TO EMPLOYEES, AND WHO HAS AUTHORIZATION TO TAKE PROMPT CORRECTIVE MEASURES TO ELIMINATE THEM."
 11. BASE PLAN OBTAINED FROM AN AUG 2, 2015 DRAWING TITLED SOIL NAIL LINE AS-BUILT PREPARED BY GABRIEL E. SENOR P.C.
 12. SIX GRADES TAKEN FROM A MARCH 20, 2016 DRAWING TITLED PARTIAL TOPOGRAPHIC SURVEY PREPARED BY TECTONIC ENGINEERING AND SURVEYING CONSULTANTS P.C.
 13. THIS ENGINEER HAS MADE NO FIELD VERIFICATION OF EXISTING SITE GRADES OR SITE UTILITIES. THE ENGINEER SHALL BE ADVISED OF CONFLICTS BETWEEN THIS DRAWING AND ACTUAL FIELD CONDITIONS PARTICULARLY HORIZONTAL CLEARANCES TO EXISTING STRUCTURES.
 14. THIS PLAN NEEDS TO BE SUBMITTED AND APPROVED BY THE TOWN OF DOBBS FERRY AND THE ADJACENT METRO NORTH