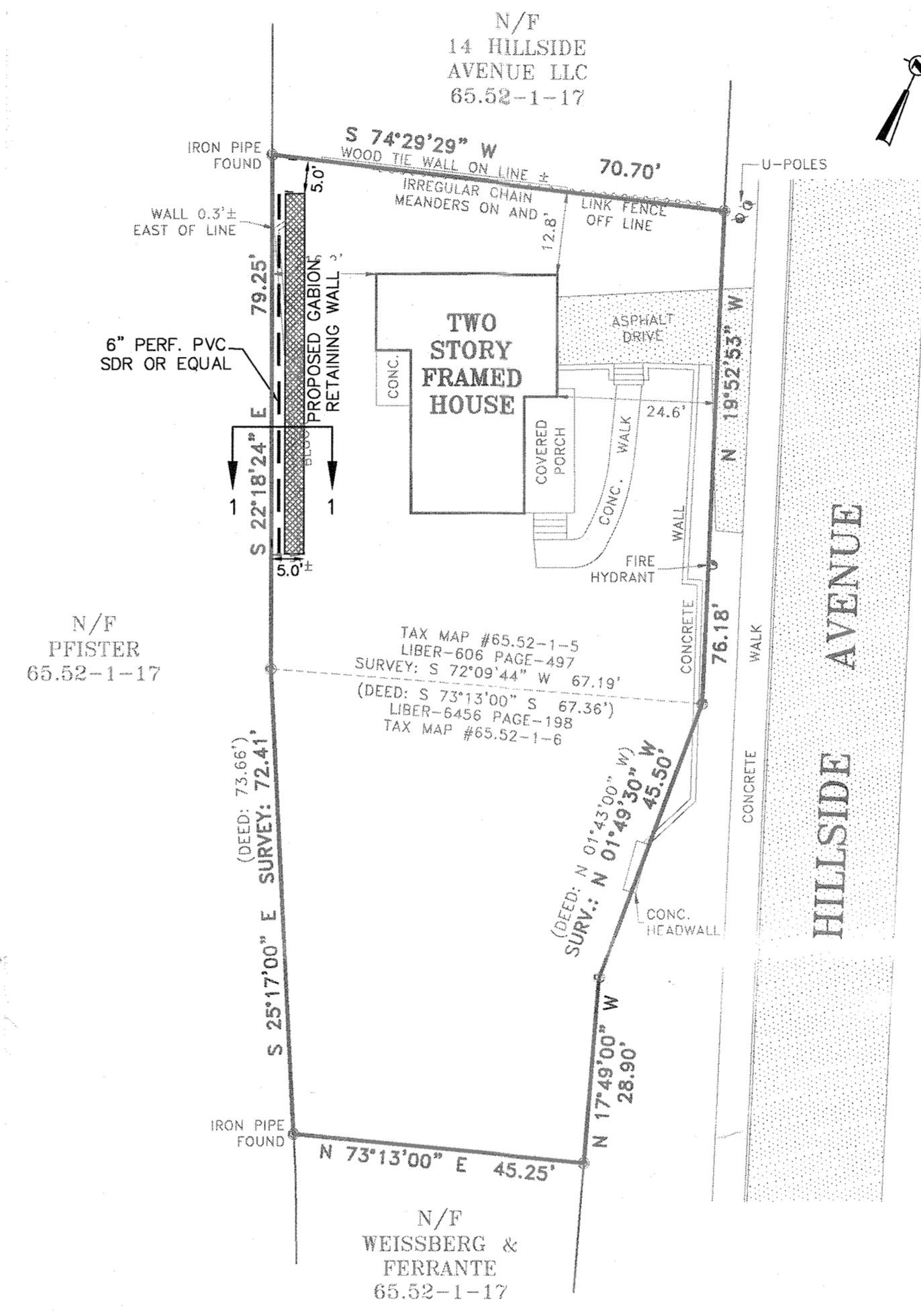
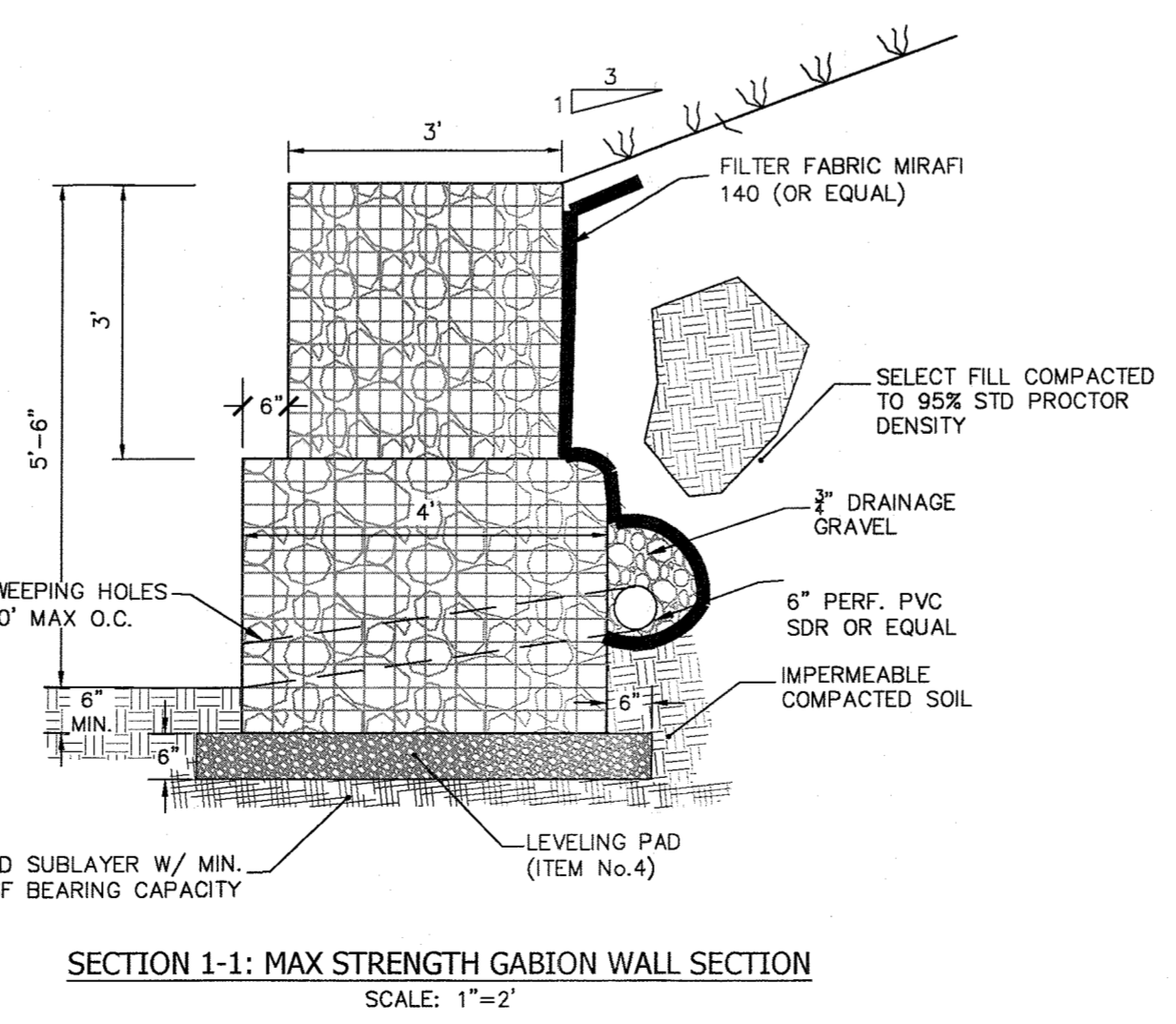
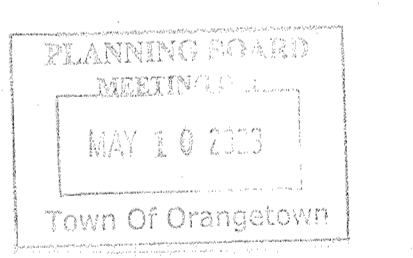


EXISTING CONDITION
SCALE: 1"=2'



PROPOSED RETAINING WALL PLAN
SCALE: 1"=2'

NOTE:
SURVEY PROVIDED BY W.E. JAMES ENGINEERING AND LAND SURVEYING, PLLC LICENSE # 050506 DATED NOVEMBER 5, 2020.



SECTION 1-1: MAX STRENGTH GABION WALL SECTION
SCALE: 1"=2'

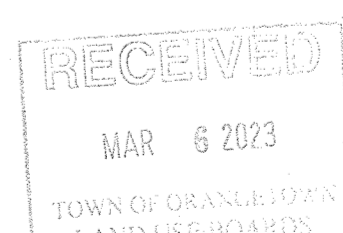
DRAWING LIST

DRAWING No.	TITLE
DRAWING 1	RETAINING WALL PLAN & DETAILS
DRAWING 2	NOTES & SPECIFICATIONS

OWNER & ADDRESS:
DIDIER ARANGO
18 HILLSIDE AVENUE
NYACK, NY 10960

AREA:
9,218 SQ.FT.

TAX MAP REFERENCE:
TOWN OF ORANGETOWN TAX MAP
SECTION 65.52, BLOCK 1, LOT 5 & 6



UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY FROM AVAILABLE INFORMATION. THE CONTRACTOR SHALL CALL THE LOCAL UNDERGROUND UTILITIES PROTECTIVE ORGANIZATION TO HAVE ALL UNDERGROUND UTILITIES MARKED IN THE FIELD PRIOR TO ANY CLEARING OR ANY CONSTRUCTION. THE CONTRACTOR SHALL ALSO VERIFY THE LOCATION, SIZE AND INVERT OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. ANY UTILITY FOR WHICH NO EVIDENCE CAN BE SEEN ON THE SURFACE OF THE LANDS MAY NOT BE SHOWN ON THIS DRAWING.



LEGEND

---	EXISTING 2' CONTOUR
---	EXISTING 10' CONTOUR
---	EXISTING WATERLINE
---	EXISTING FIRE HYDRANT
---	EXISTING GAS LINE
CB	EXISTING CATCH BASIN
---	EXISTING STORM DRAIN LINE
SMH	EXISTING SEWER MANHOLE
---	EXISTING SEWER LINE
+	EXISTING SPOT ELEVATION
---	EXISTING STONEWALL
---	EXISTING SIGN
LP	EXISTING LIGHT POLE
UP	EXISTING UTILITY POLE
TC	TOP OF CURB
DC	DROP OF CURB
TW	TOP OF WALL
BW	BOTTOM OF WALL
---	PROPOSED GABION RETAINING WALL
---	PROPOSED PERFORATED PIPE

2	01-28-23	REVISED WALL SECTION
1	12-5-22	REVISED WALL DESIGN
REVISION	DATE	DESCRIPTION
ATZL, NASHER & ZIGLER P.C. ENGINEERS-SURVEYORS-PLANNERS 232 North Main Street New City, New York 10956 Tel: (845) 634-4694 Fax: (845) 634-5543 E-mail: info@anzny.com Web: www.ANZNY.com		
PROJECT: DIDIER ARANGO		
TOWN OF ORANGETOWN ROCKLAND COUNTY, NEW YORK		
TITLE: RETAINING WALL PLAN & DETAILS		
DRAWN BY: IS	CHECKED BY: VR	
DATE: MARCH 09, 2022	SCALE: 1 IN. = 20 FT.	
PROJECT NO: 4998	DRAWING NO: 1	

P:\DRAWINGS\4998\4998 SURVEY & RETAINING WALL PLAN 01-28-23.DWG

GENERAL CONSTRUCTION CONDITIONS

- 1. THE TERM OF OWNER AS USED IN THESE SPECIFICATIONS AND NOTES SHALL INCLUDE THE OWNER OF THE PROPERTY...
2. THE OWNER SHALL BE RESPONSIBLE FOR ALL TEMPORARY PERMITS, CONNECTION PERMITS, FEES, INSPECTIONS AND RECORD KEEPING...
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE AND MAINTAIN THE PROPERTY AND PROJECT LIMITS THROUGHOUT THE PROJECT...

EARTHWORK

- 1. PRIOR TO STARTING ANY CUTS OR FILLS THE CONTRACTOR SHALL STRIP AND STOCKPILE ALL TOPSOIL...
2. UNLESS OTHERWISE NOTED ON THE DRAWINGS OR IN THE CONTRACT DOCUMENTS THE CONTRACTOR SHALL RETAIN AND PAY ALL COST FOR SOIL COMPACTING TESTING...
3. COMPACTION REQUIREMENTS SHALL BE THOSE OUTLINED IN THE PLAN...
4. UNLESS OTHERWISE NOTED IN THE SOILS REPORT OR ON THE DRAWINGS THE ON SITE MATERIAL SHALL BE USED TO MAKE FILLS...

GABION WALL NOTES:

- 1. THE SCOPE OF WORK SHALL CONSIST OF FURNISHING; ASSEMBLING AND INSTALLING ROCK FILLED WIRE MESH GABION BASKETS...
2. GABIONS SHALL BE FABRICATED, ASSEMBLED AND INSTALLED IN ACCORDANCE WITH THE NOMINAL WIRE SIZES AND DIMENSIONS FOUND IN TABLES 1, USING THE FOLLOWING MATERIALS...
3. WIRE FOR FABRICATION AND ASSEMBLY SHALL BE HOT-DIP GALVANIZED...
4. ALTERNATE FASTENERS FOR USE WITH WIRE MESH GABIONS, SUCH AS RING FASTENERS, SHALL BE FORMED FROM WIRE MEETING THE SAME QUALITY AND COATING THICKNESS REQUIREMENTS AS SPECIFIED FOR THE GABIONS...

Table with 4 columns: GABION BASKET HEIGHT (INCHES), PREDOMINANT ROCK SIZE (INCHES), MINIMUM ROCK DIMENSION (INCHES), MAXIMUM ROCK DIMENSION (INCHES). Rows for 12", 18", and 36" basket heights.

GENERAL RETAINING WALL NOTES

- 1. WALL CONSTRUCTION SHALL BE SUPERVISED BY A QUALIFIED ENGINEER OR TECHNICIAN TO VERIFY FIELD AND SITE SOIL CONDITIONS...
2. THE FOUNDATION SOILS AT THE BASE OF THE WALL(S) SHALL BE INSPECTED BY THE ENGINEER...
3. ALL WALL EXCAVATION AND RETAINED SOILS SHALL BE INSPECTED FOR GROUNDWATER CONDITIONS...
4. ALL SOIL BACKFILL SHALL BE TESTED BY THE ENGINEER FOR MOISTURE, DENSITY, AND COMPACTION PERIODICALLY...

INSPECTION AND CERTIFICATION NOTES

- A. ANY PROPOSED RETAINING WALLS SHALL BE DESIGNED AND INSPECTED DURING CONSTRUCTION...
B. TOP OF RETAINING WALL SHALL MATCH PROPOSED GRADE...
1) CONTRACTOR TO CONTACT ALL INVOLVED AGENCIES PRIOR TO EXCAVATION...
2) IF REQUIRED, THE CONTRACTOR TO OBTAIN BUILDING PERMIT FROM THE APPROPRIATE GOVERNING AUTHORITY...
3) MINIMUM INSPECTIONS ARE AS FOLLOWS: A) FOOTING INSPECTION B) MID HEIGHT INSPECTION C) FINAL INSPECTION

- WITH ALTERNATING SINGLE AND DOUBLE HALF HITCHES AT INTERVALS BETWEEN FOUR (4) TO FIVE (5) INCHES...
15. INTERIOR DIAPHRAGMS WILL BE REQUIRED WHERE ANY INSIDE DIMENSIONS EXCEEDS THREE (3) FEET FOR GABION BASKETS THICKER THAN 12"...
16. PLACEMENT. PLACE THE EMPTY GABIONS ON THE FOUNDATION AND INTERCONNECT THE ADJACENT GABIONS ALONG THE TOP, BOTTOM, AND VERTICAL EDGES USING LACING WIRE...
17. INTERCONNECT EACH LAYER OF GABIONS TO THE UNDERLYING LAYER OF GABIONS ALONG THE FRONT, BACK, AND SIDES...
18. FILLING OPERATION: AFTER ADJACENT EMPTY WIRE GABION UNITS ARE SET INLINE AND GRADE AND COMMON SIDES PROPERLY CONNECTED, THEY SHALL BE PLACED IN STRAIGHT-LINE TENSION TO GAIN A UNIFORM ALIGNMENT...

- 23. THE LAST LAYER OF ROCK SHALL BE UNIFORMLY LEVELED TO THE TOP EDGES OF GABIONS...
24. THE GABION LID SHALL THEN BE SECURED TO THE SIDES, ENDS, AND DIAPHRAGMS WITH SPIRAL BINDERS, APPROVED ALTERNATE FASTENERS, OR LACING WIRE WRAPPED WITH ALTERNATING SINGLE AND DOUBLE HALF-HITCHES...
25. ANY DAMAGE TO THE WIRE OR COATINGS DURING ASSEMBLY, PLACEMENT AND FILLING SHALL BE REPAIRED PROMPTLY...

TABLE 1 (MINIMUM REQUIREMENTS) GABION BASKETS - HEIGHT 12, 18, OR 36 INCHES, LENGTH AS SPECIFIED

Table with 6 columns: TYPE OF WIRE, MESH SIZE (INCHES), WIRE DIAMETER (INCHES), PVC COATING (INCHES), TOTAL DIAMETER (INCHES), GALVANIZED COATING OZ./SF.

DESIGN PARAMETERS

SOIL AND DESIGN PARAMETERS

A. THE FOLLOWING SOIL PARAMETERS HAVE BEEN USED FOR THE PREPARATION OF THE FINAL DESIGN:

DESIGN PARAMETERS*

Table with 3 columns: SOIL, SOIL UNIT WEIGHT (PCF), INTERNAL FRICTION ANGLE (φ). Rows for BACKFILL and FOUNDATION SOIL.

APPLIED SURCHARGE LOADING=40 PSF (SNOW LOAD)

* SOIL PARAMETERS CONSERVATIVELY ASSUMED FOR DESIGN

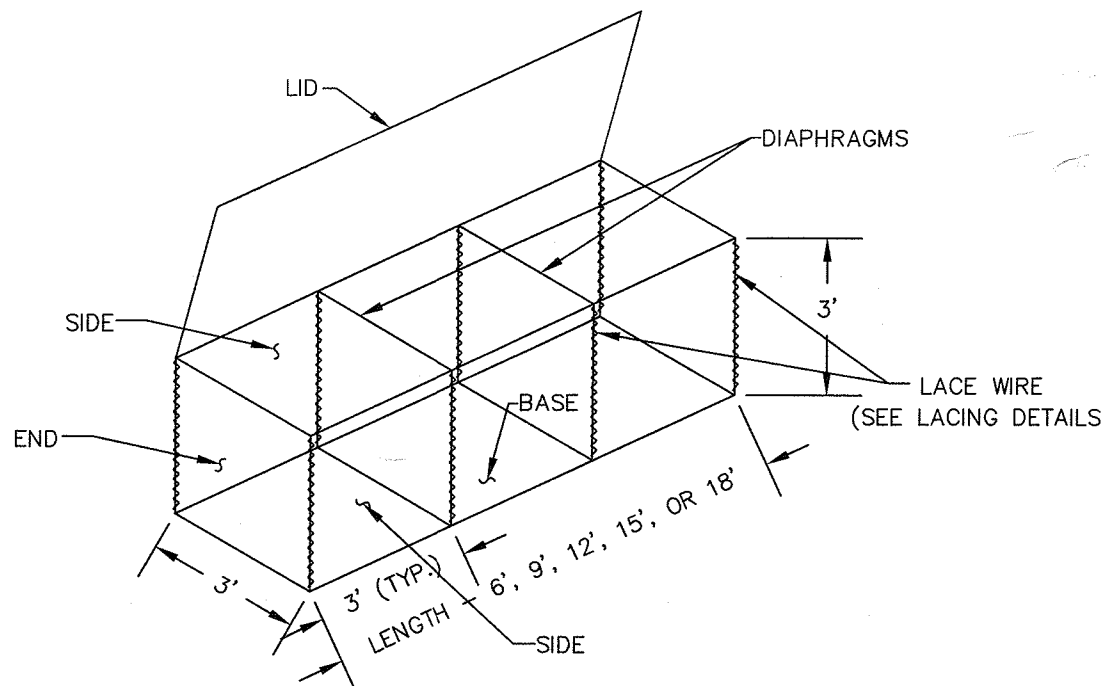
MINIMUM FACTORS OF SAFETY

Table with 2 columns: OVERTURNING, SLIDING, BEARING CAPACITY. Values: 2.0, 1.5, 2.0.

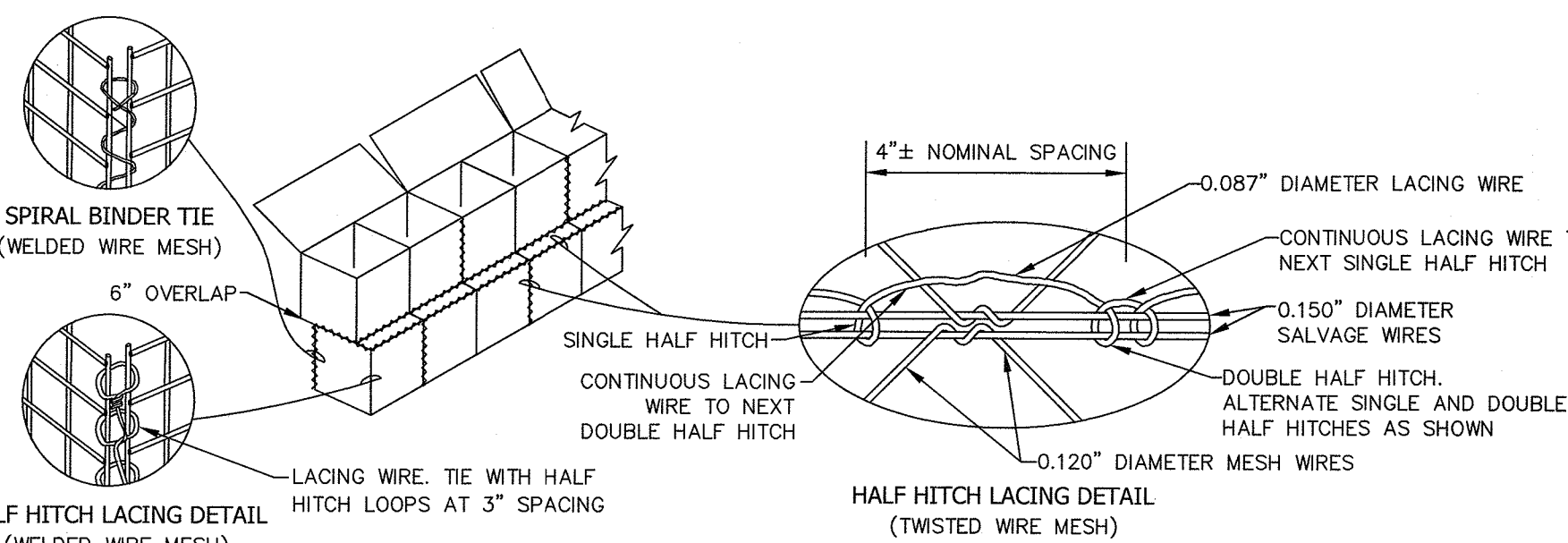
PROVIDED FACTORS OF SAFETY

Table with 2 columns: OVERTURNING, SLIDING, BEARING CAPACITY. Values: 2.5, 2.1, 2.1.

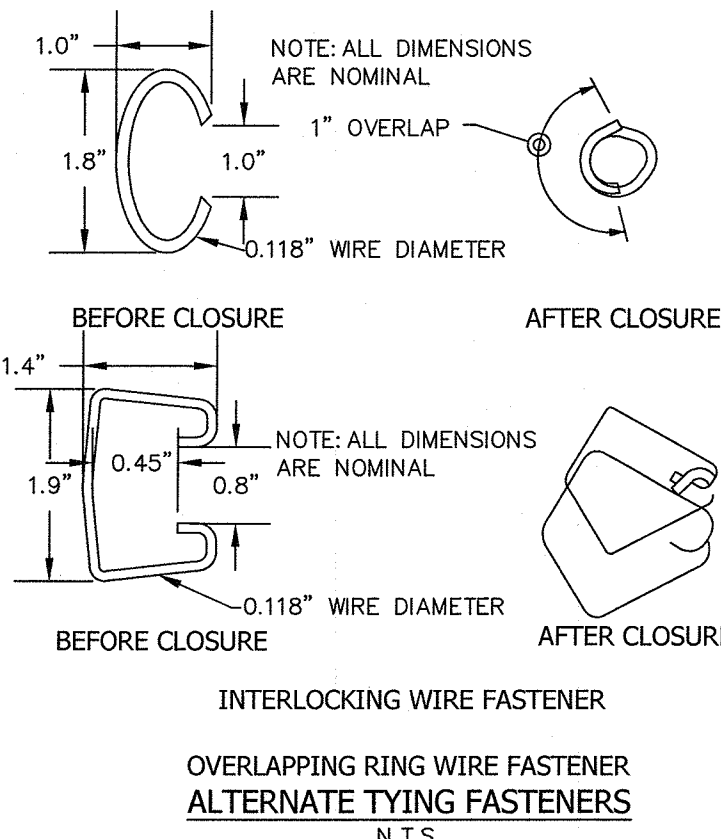
B. SHOULD THE ACTUAL SOIL CONDITIONS OBSERVED DURING CONSTRUCTION DIFFER FROM THOSE ASSUMED FOR THE DESIGN, DESIGN SHALL BE REVIEWED BY THE WALL DESIGN ENGINEER AT THE OWNER'S GEOTECHNICAL ENGINEER'S DIRECTION.



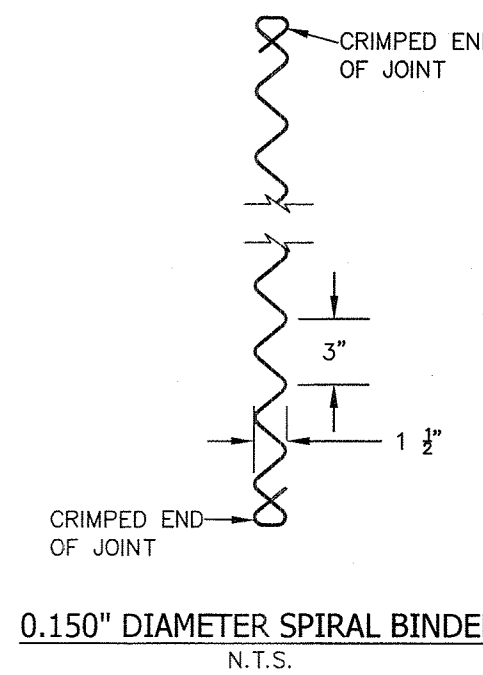
TYPICAL ASSEMBLED GABION BASKET N.T.S.



TYPICAL INSTALLATION GABION BASKETS N.T.S.



INTERLOCKING WIRE FASTENER OVERLAPPING RING WIRE FASTENER ALTERNATE TYING FASTENERS N.T.S.



0.150" DIAMETER SPIRAL BINDER N.T.S.



UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY FROM AVAILABLE INFORMATION... THE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE AND DEPTH OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION...

THE EDUCATION LAW OF THE STATE OF NEW YORK PROHIBITS ANY PERSON ALTERING ANYTHING ON THESE DRAWINGS... Vahid Rostami, P.E., N.Y.S. P.E. LIC. NO. 101473

Revision table with columns 2, 01-28-23, 12-5-22, and Description. Project information for ATZL, Nasher & Ziegler P.C. and Didier Arango, Town of Orangetown, Rockland County, New York. Title: NOTES & SPECIFICATIONS. Drawing No: 4998.

Drawings: 1998-1998 SURVEY & RETAINING WALL PLAN 01-28-23.DWG