## ITEM SPECIAL, MISC.: PLATE PILES

### **DESCRIPTION OF WORK**

THIS ITEM OF WORK PROVIDES SLOPE STABILIZATION BY USING A PROPRIETARY AND PATENTED SLOPE REINFORCEMENT TECHNOLOGY (METHOD). THE PATENTED GEOPIER SRT SYSTEM (PLATE PILE METHOD) USES AN ARRAY OF STEEL PILES DRIVEN INTO THE SLOPE IN STAGGERED AND UNIFORMLY SPACED ROWS. ADDITIONAL DETAILS ARE PROVIDED IN FIGURES 1 AND 2. THE CONTRACTOR SHALL CONTACT THE BELOW COMPANY TO COORDINATE THE FINAL SLOPE STABILIZATION WORK

> GEOPIER FOUNDATION COMPANY GEOPIER SRT SYSTEM 335 WELLINGTON WAY SPRINGBORO, OH 45066 CONTACT: MARK SALVETER OFFICE: 937-790-1084 CELL: 513-516-1251

THE GEOPIER SRT SYSTEM (PLATE PILE METHOD) IS A DESIGN/BUILD PRODUCT AND SHALL BE PER THE RECOMMENDATIONS OF THE GEOPIER WILL FINALIZE THE DESIGN AND THE INSTALLATION OF THE PLATE PILES.

LT SHOULD BE NOTED THAT PLATE PILES HAVE ALREADY BEEN PLACED FROM APPROX. \$1A. 26+00.00 TO \$1A. 27+00.00 WITH A PREVIOUS MAINTENANCE CONTRACT. CARE SHALL BE TAKEN AROUND THIS AREA TO NOT DAMAGE AND/OR DESTROY THESE PLATE PILES. DAMAGED PLATE PILES, AS DETERMINED BY THE PROJECT ENGINEER, SHALL BE REPLACED TO THE SATISFACTION OF THE PROJECT ENGINEER AT NO COST TO THE DEPARTMENT.

IN ADDITION TO THE SLOPE STABILIZATION WORK, THE CONTRACTOR WILL REGRADE THE SLOPE TO PROVIDE A UNIFORM SURFACE PRIOR TO THE INSTALLATION OF THE PLATE PILES. THIS SHALL BE PER THE RECOMMENDATIONS OF GEOPIER AND TO THE SATISFACTION OF THE PROJECT ENGINEER. QUANTITIES FOR ITEM 203, EXCAVATION AND ITEM 203, EMBANKMENT HAVE BEEN INCLUDED IN THE PLANS FOR THIS

PER THE PROVIDED CONCEPTUAL DETAILS, THE PLATE PILES WILL BE INSTALLED 4-FEET ON-CENTER IN THE HORIZONTAL DIRECTION (I.E. PARALLEL TO THE ROADWAY) AND AS INDICATED BELOW IN THE VERTICAL DIRECTION (I.E. PERPENDICULAR TO THE ROADWAY). PLATE PILE PILE ROWS SHOULD BE STAGGERED TO ALIGN EACH PLATE BETWEEN THE PLATES IN THE UPPER ROW. THE FIRST ROW OF PLATE PILES SHOULD BE INSTALLED NEAR THE HEAD OF THE SLOPE AND SUBSEQUENT ROWS DOWNSLOPE SHOULD BE SPACED AS INDICATED.

FOLLOWING THE INSTALLATION OF THE PLATE PILES, THE CONTRACTOR WILL REGRADE ANY AREAS DISTURBED DURING PLATE PILE INSTALLATION PRIOR TO INSTALLING EROSION CONTROL MEASURES. THIS EMBANKMENT AND REGRADING WORK SHALL BE PER THE RECOMMENDATIONS OF GEOPIER AND TO THE SATISFACTION OF THE PROJECT ENGINEER. QUANTITIES FOR ITEM 203, EXCAVATION AND ITEM 203, EMBANKMENT HAVE BEEN INCLUDED IN THE PLANS FOR

FOLLOWING THE INSTALLATION OF THE PLATE PILES AND THE REGRADING OF THE STABILIZED SLOPE, EROSION CONTROL AND VEGETATIVE PLANTING MUST BE PROVIDED BY THE CONTRACTOR TO ENSURE A FULLY FUNCTIONING SLOPE STABILIZATION SYSTEM. EROSION CONTROL MATTING PER STANDARD CONSTRUCTION DRAWING DM-4.2 AND SEEDING AND MULCHING SHALL BE PROVIDED QUANTITIES FOR ITEM 670, SLOPE EROSION PROTECTION MAT, TYPE B AND SEVERAL ITEM 659 ITEMS HAVE BEEN INCLUDED IN THE PLANS TO PROVIDE EROSION CONTROL AND ESTABLISH VEGETATION ALONG AND BEYOND THE STABILIZED AND REGRADED SLOPES.

FOLLOWING THE INSTALLATION OF THE PLATE PILES AND THE REGRADING OF THE STABILIZED SLOPE, EROSION CONTROL AND VEGETATIVE PLANTING MUST BE PROVIDED BY THE CONTRACTOR TO ENSURE A FULLY FUNCTIONING SLOPE STABILIZATION SYSTEM. EROSION CONTROL MATTING PER STANDARD CONSTRUCTION DRAWING DM-4.2 AND SEEDING AND MULCHING SHALL BE PROVIDED. QUANTITIES FOR ITEM 670. SLOPE EROSION PROTECTION MAT. TYPE B AND SEVERAL ITEM 659 ITEMS HAVE BEEN INCLUDED IN THE PLANS TO PROVIDE EROSION CONTROL AND ESTABLISH VEGETATION ALONG AND BEYOND THE STABILIZED AND REGRADED SLOPES.

# 

PLATE PILES SHALL BE CONSTRUCTED OF OF STEEL S3X5.7 S-SHAPES OR C4X5.4 C-SHAPES. PLATES SHALL BE A MINIMUM OF 0.25 IN. THICK.

### METHOD OF MEASUREMENT

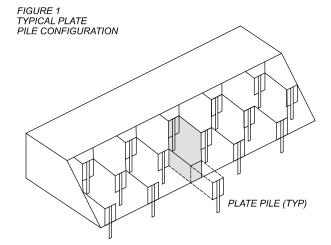
THE DEPARTMENT WILL MEASURE THE QUANTITY OF AREA REPAIRED UTILIZING THE PLATE PILES AS TOTAL SQUARE YARDS MEASURED IN THE FIELD BASED ON THE AREAS DESIGNATED IN THE PLANS. THE REPAIRED AREA IS TO BE MEASURED ALONG A HORIZONTAL PLANE, NOT ALONG THE SLOPE.

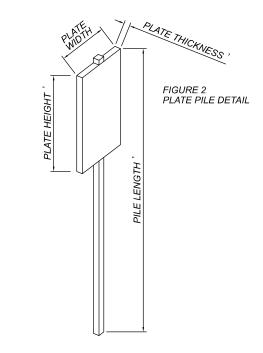
### BASIS OF PAYMENT

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE BELOW NOTED WORK:

ITEM SPECIAL, MISC.: PLATE PILES 1,972 SY

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE, UNLESS NOTED OTHERWISE, SHALL BE INCLUDED IN THE UNIT BID PRICE FOR THE PERTINENT 690 ITEMS.





Ī	SLIDE	AREAS	PILE	HORIZONTAL	TRANSVERSE	PLATE	AREA TO BE
	STATIONING		LENGTH	SPACING	SPACING	DIMENSION	STABILIZED
	FROM	TO	FT	FT	FT	IN x IN x IN	SY
	24+50	26+00	10	4	6	40 x 12 x ½	968
	27+04	29+00	10	4	6	40 x 12 x ½	1004



DISTRICT 3

NGINEERING **TEAM FOUR** 

NRF JLB 3-25-24

117621

P.6 37