

FILL VOLUMES DO NOT INCLUDE THE 8" DCA DRIVEWAY MATERIAL.
CUT VOLUMES ARE TAKEN TO DRIVEWAY SUBGRADE.
VIEWPOINT: CROSS SECTIONS ARE LOOKING UP-STATION

FILL VOLUME CALCULATIONS

SECTION	C OR F AREA	AVERAGE AREA	DISTANCE BETWEEN SECTIONS	C OR F VOLUME	CUMULATIVE VOLUME
0+00	C 6.57 S.F.	C 6.39 S.F.	50 FT.	C 319.5 C.F.	C 319.5 C.F.
0+50	C 6.21 S.F.	F 4.11 S.F.	50 FT.	F 205.5 C.F.	C 114 C.F.
1+00	F 14.23 S.F.	F 17.86 S.F.	50 FT.	F 893.25 C.F.	F 799.25 C.F.
1+50	F 21.5 S.F.	F 27.25 S.F.	50 FT.	F 1,362.5 C.F.	F 2,161.75 C.F.
2+00	F 33.0 S.F.	F 6.28 S.F.	28 FT.	F 175.8 C.F.	F 2,337.55 C.F.
2+28	C 20.45 S.F.			F 86.6 C.Y.	

PROPOSED CUT & FILL CALCULATION

CROSS SECTIONS – SHEET 1

Sheet C-2

PROPOSED SITE IMPROVEMENTS

MONTCLAIR STABLES

TAX LOTS 176, 179 & 186 BLOCK 162.02

TAX MAP SHEET 77

THE TOWNSHIP OF WEST ORANGE

ESSEX COUNTY, NEW JERSEY

Cunningham Engineering & Design, PLLC

Certificate of Authorization No. 215642820000

213 NEWTON SMARTSWOOD ROAD, NEWTON, NEW JERSEY 07860

973-219-7546 BMOENP@YAHOO.COM

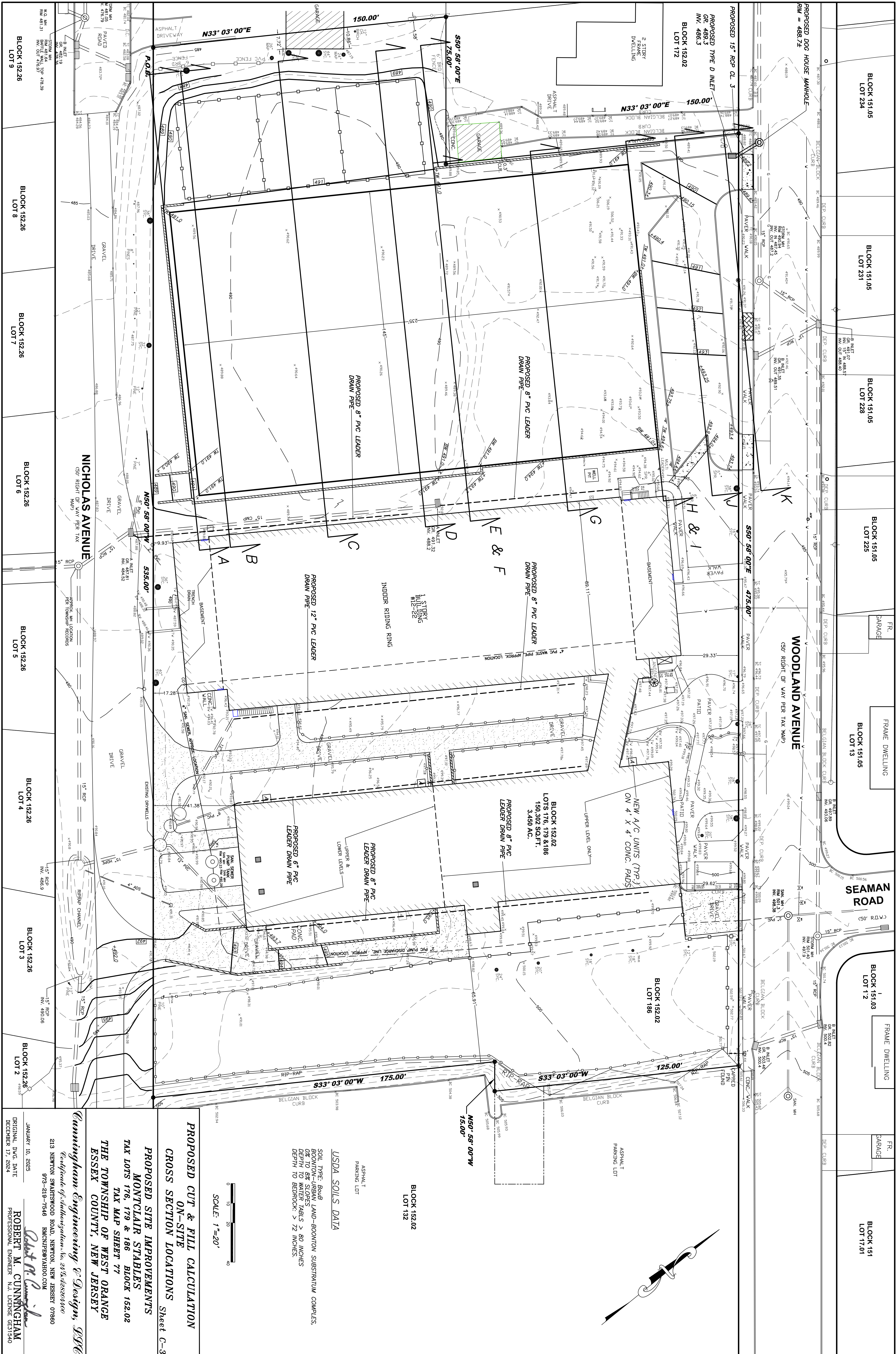
JANUARY 10, 2025

ORIGINAL DWG. DATE

JANUARY 6, 2023

ROBERT M. CUNNINGHAM

PROFESSIONAL ENGINEER N.J. LICENSE GE31340



0 10 20 40
SCALE: 1"=20'

**PROPOSED CUT & FILL CALCULATION
ON-SITE
CROSS SECTION LOCATIONS**

PROPOSED SITE IMPROVEMENTS
MONTCLAIR STABLES
TAX LOTS 176, 179 & 186 BLOCK 152.02
TAX MAP SHEET 77
THE TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

ESSEX COUNTY, NEW JERSEY

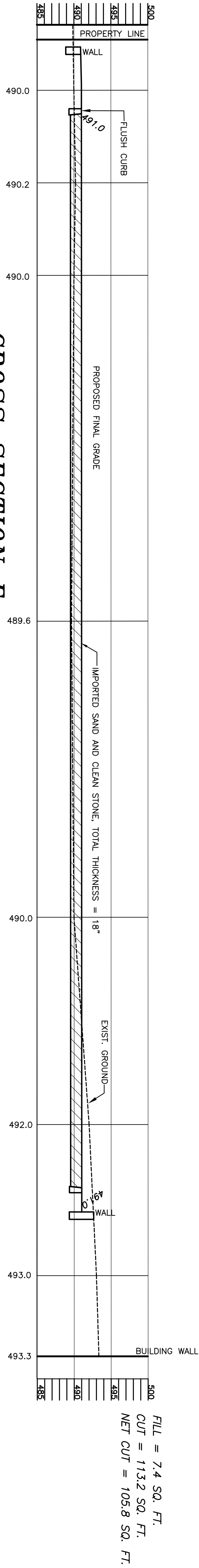
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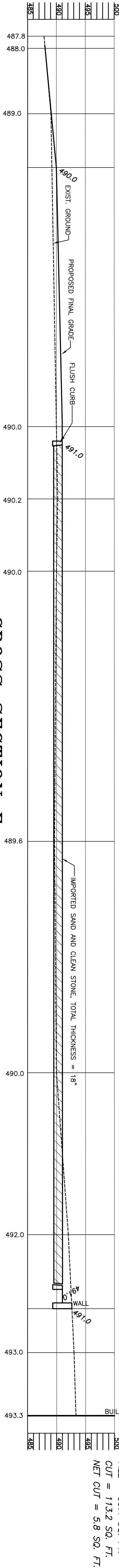
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JANUARY 10, 2025
 ORIGINAL DWG. DATE
 DECEMBER 17, 2024
 ROBERT M. CUNNINGHAM
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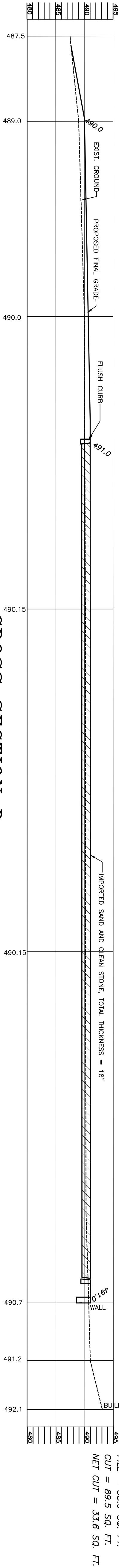
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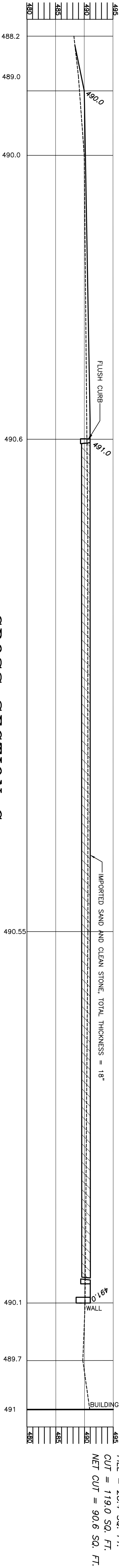
CROSS SECTION *F*
SCALE: 1" = 10' HOR., 1" = 10' VERT.



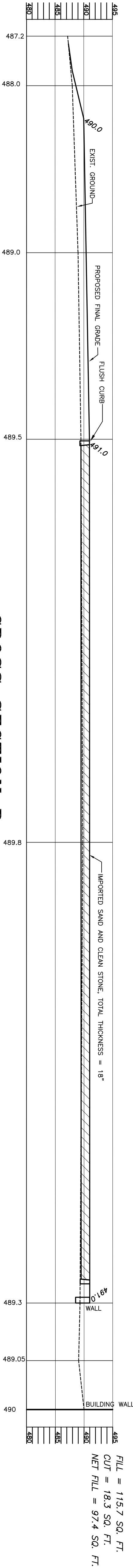
CROSS SECTION *E*
SCALE: 1" = 10' HOR., 1" = 10' VERT.



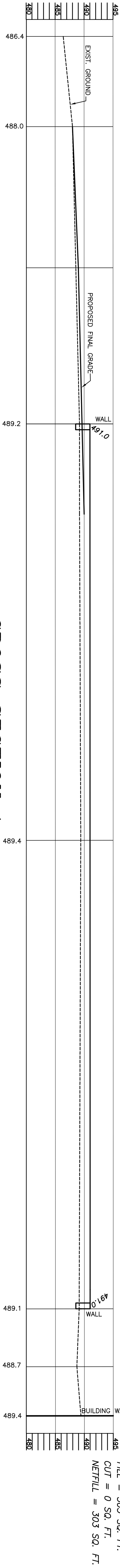
CROSS SECTION *D*
SCALE: 1" = 10' HOR., 1" = 10' VERT.



CROSS SECTION *C*
SCALE: 1" = 10' HOR., 1" = 10' VERT.



CROSS SECTION *B*
SCALE: 1" = 10' HOR., 1" = 10' VERT.



CROSS SECTION *A*
SCALE: 1" = 10' HOR., 1" = 10' VERT.

FILL VOLUME CALCULATIONS

SECTION	C OR F AREA	AVERAGE AREA	DISTANCE BETWEEN SECTIONS	C OR F VOLUME	CUMULATIVE VOLUME
A	F 303 S.F.	F 200.2 S.F.	15 FT.	F 3,003 C.F.	F 3,003 C.F.
B	F 97.4 S.F.	F 6.8 S.F.	50 FT.	F 340 C.F.	F 3,343 C.F.
C	C 90.6 S.F.	C 62.1 S.F.	50 FT.	C 3,105 C.F.	F 238 C.F.
D	C 33.6 S.F.	C 46.7 S.F.	23 FT.	C 1,034.1 C.F.	C 836.1 C.F.
E	C 59.8 S.F.	C 59.8 S.F.	0 FT.	C 0 C.F.	C 836.1 C.F.
F	C 59.8 S.F.				

FILL VOLUMES DO NOT INCLUDE THE PAVING MATERIALS OR RIDING ARENA MATERIALS.
CUT VOLUMES ARE TAKEN TO PARKING LOT OR RIDING ARENA SUBGRADE SUBGRADE.
VIEWPOINT: CROSS SECTIONS ARE LOOKING NORTH

PROPOSED CUT & FILL CALCULATION
CROSS SECTIONS – SHEET 2
Sheet C-4

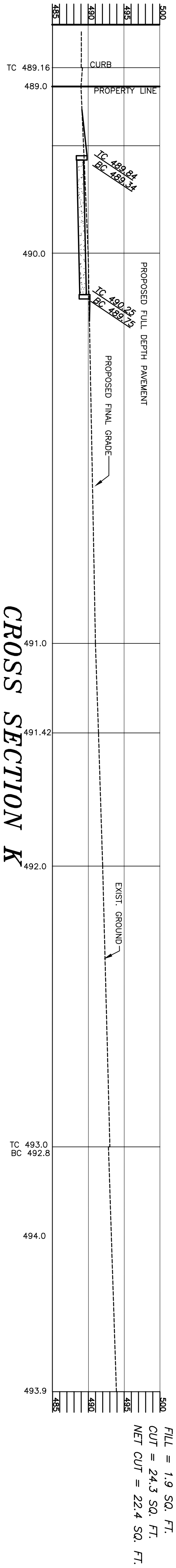
PROPOSED SITE IMPROVEMENTS
MONTCLAIR STABLES
TAX LOTS 176, 179 & 186 BLOCK 162.02
TAX MAP SHEET 77

THE TOWNSHIP OF WEST ORANGE
ESSEX COUNTY, NEW JERSEY

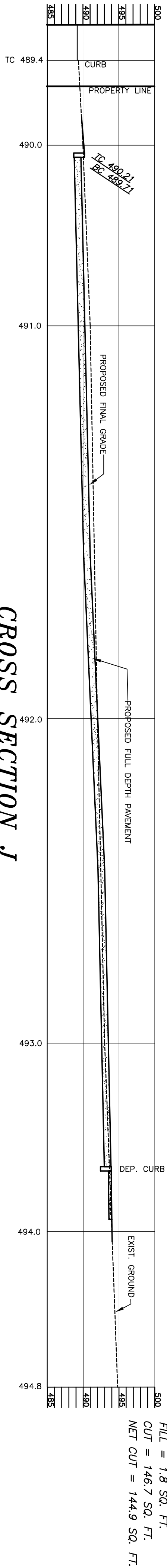
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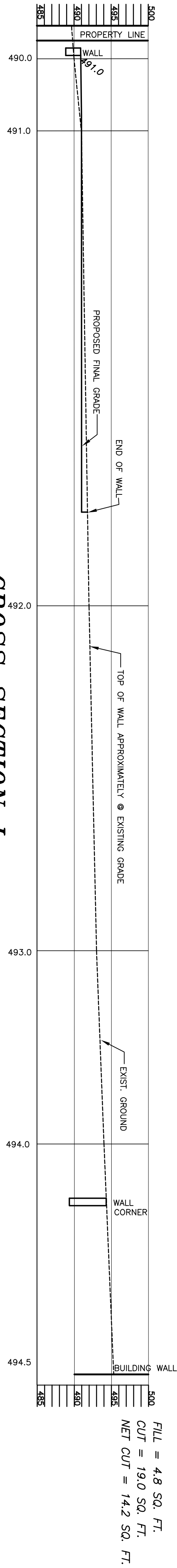
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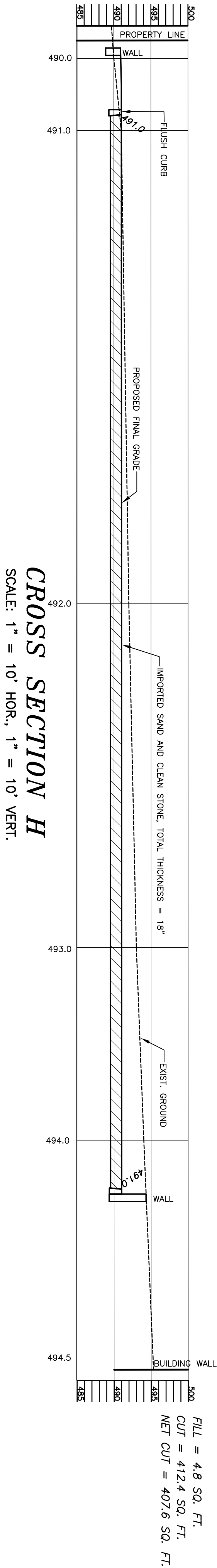
CROSS SECTION K
SCALE: 1" = 10' HOR., 1" = 10' VERT.



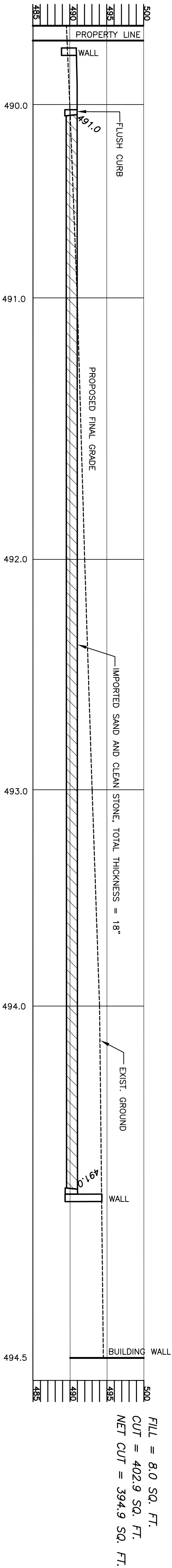
CROSS SECTION J
SCALE: 1" = 10' HOR., 1" = 10' VERT.



CROSS SECTION I
SCALE: 1" = 10' HOR., 1" = 10' VERT.



CROSS SECTION H
SCALE: 1" = 10' HOR., 1" = 10' VERT.



CROSS SECTION G
SCALE: 1" = 10' HOR., 1" = 10' VERT.

FILL VOLUME CALCULATIONS

SECTION	C OR F AREA	AVERAGE AREA	DISTANCE BETWEEN SECTIONS	C OR F VOLUME	CUMULATIVE VOLUME
F	C 59.8 S.F.	C 227.35 S.F.	50 FT.	C 11,367.5 C.F.	C 12,203.6 C.F.
G	C 394.9 S.F.	C 401.25 S.F.	50 FT.	F 20,062.5 C.F.	C 32,266.1 C.F.
H	C 407.6 S.F.	C 210.9 S.F.	0 FT.	C 0 C.F.	C 32,266.1 C.F.
I	C 14.2 S.F.	C 79.55 S.F.	25 FT.	C 1,988.7 C.F.	C 34,254.8 C.F.
J	C 144.9 S.F.	C 83.65 S.F.	25 FT.	C 2,091.3 C.F.	C 36,346.1 C.F.
K	C 22.1 S.F.			C 1,346.15 C.F.	

OF THE 1,346.15 C.Y. CUT, APPROXIMATELY 505 C.Y. IS THE SAND FROM THE EXISTING RIDING RING.

PROPOSED CUT & FILL CALCULATION

CROSS SECTIONS – SHEET 3

Sheet C-5

PROPOSED SITE IMPROVEMENTS

MONTCLAIR STABLES

TAX LOTS 176, 179 & 186 BLOCK 152.02

TAX MAP SHEET 77

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