

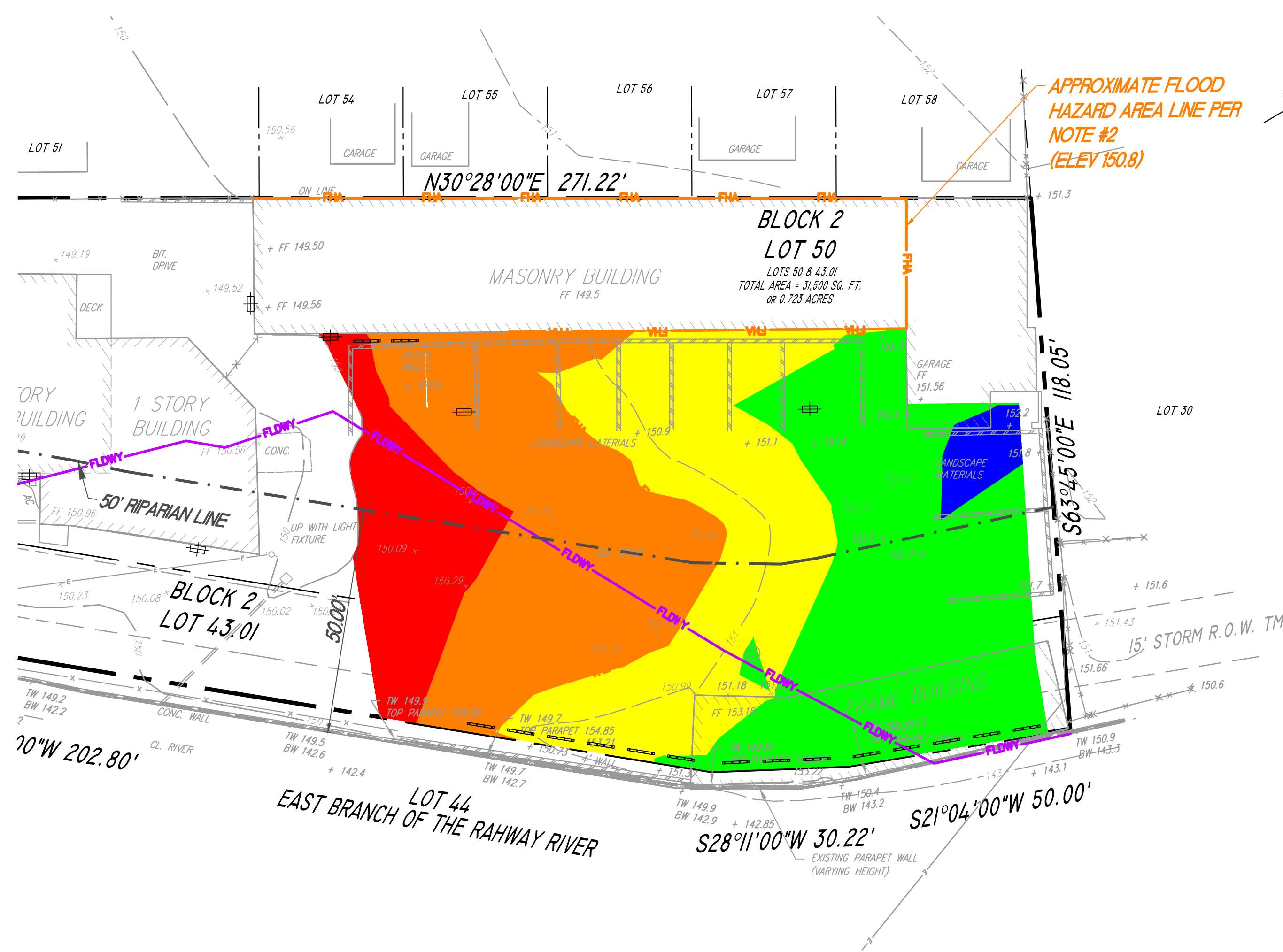
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Date: 2021.07.12 10:12:19 -04'00'



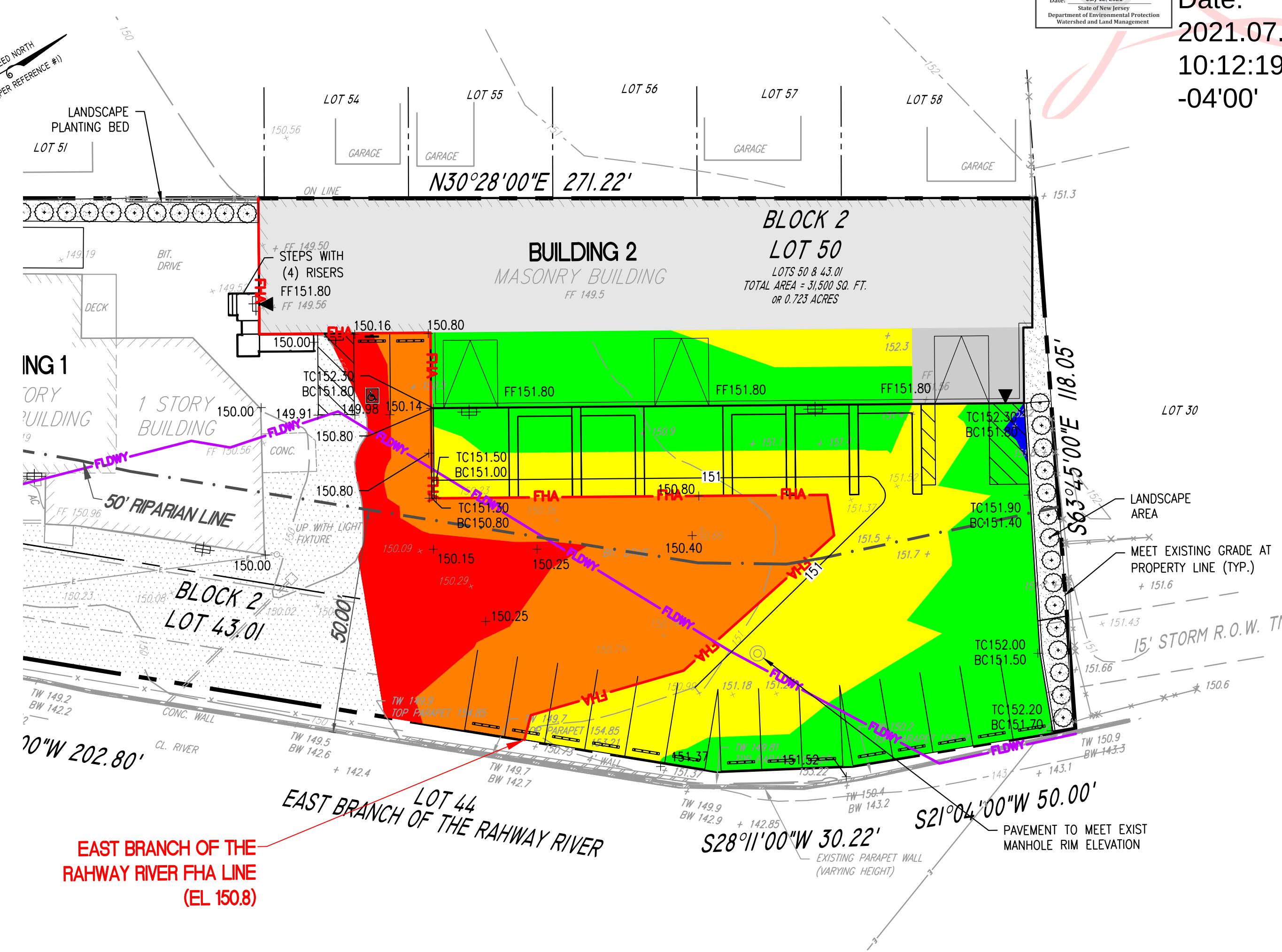
DRESDNER ROBIN

DRESDNER ROBIN ENVIRONMENTAL MANAGEMENT, INC.
55 LANE ROAD, SUITE 220, FAIRFIELD, NJ 07004
TEL: 973.696.2600 FAX: 973.696.1362
NJ CERTIFICATE OF AUTHORIZATION: 24GA27926000

JERSEY CITY ■ FAIRFIELD ■ ASBURY PARK ■ CHERRY HILL



EXISTING CONDITIONS



PROPOSED CONDITIONS

FLOOD STORAGE TABLE (TIN METHOD)		
DESCRIPTION	EXISTING	PROPOSED
BASE SURFACE	"FHAZ"	"FHAZ"
COMPARISON SURFACE	"EG SURFACE"	"PG SURFACE"
CUT	69.6 cy	71.2 cy
FILL	162.1 cy	169.7 cy
NET	92.5 cy	98.5 cy
SUMMARY	1.6 CY of flood storage gained between existing and proposed conditions	

Surface Properties - Existing Vs Flood Plain	
Information Definition Analysis Statistics	
Statistics	Value
General	
TIN	
Volume	
Base Surface	FHAZ
Comparison Surface	EG Surface
Cut Factor	1.000
Fill Factor	1.000
Cut volume (adjusted)	69.63 Cu. Yd.
Fill volume (adjusted)	162.08 Cu. Yd.
Net volume (adjusted)	92.45 Cu. Yd. <FHAZ>
Cut volume (unadjusted)	69.63 Cu. Yd.
Fill volume (unadjusted)	162.08 Cu. Yd.
Net volume (unadjusted)	92.45 Cu. Yd. <FHAZ>

Surface Properties - Proposed vs Flood Plain	
Information Definition Analysis Statistics	
Statistics	Value
General	
TIN	
Volume	
Base Surface	FHAZ
Comparison Surface	PG Surface
Cut Factor	1.000
Fill Factor	1.000
Cut volume (adjusted)	71.18 Cu. Yd.
Fill volume (adjusted)	169.69 Cu. Yd.
Net volume (adjusted)	98.51 Cu. Yd. <FHAZ>
Cut volume (unadjusted)	71.18 Cu. Yd.
Fill volume (unadjusted)	169.69 Cu. Yd.
Net volume (unadjusted)	98.51 Cu. Yd. <FHAZ>

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-0.80	-0.50	Red
2	-0.50	0.00	Orange
3	0.00	0.50	Yellow
4	0.50	1.00	Green
5	1.00	1.40	Blue

NOTE:
(-) DEPTH BELOW FHA (FLOOD STORAGE)
(+) DEPTH ABOVE FHA (NO FLOOD STORAGE)

NOTES:

- THE STATE OF NEW JERSEY HAS DETERMINED THAT ALL OR A PORTION OF THIS LOT LIES IN A FLOOD HAZARD AREA AND/OR RIPARIAN ZONE. CERTAIN ACTIVITIES OF FLOOD HAZARD AREAS AND RIPARIAN ZONES ARE REGULATED BY THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND SOME ACTIVITIES MAY BE PROHIBITED ON THIS SITE OR MAY FIRST REQUIRE A FLOOD HAZARD AREA PERMIT. CONSULT WWW.NJ.GOV/DEP/LANDUSE OR CONTACT THE DIVISION OF LAND USE REGULATION AT (609) 777-0454 FOR MORE INFORMATION PRIOR TO ANY CONSTRUCTION ONSITE.
- FLOOD HAZARD AREA AND FLOODWAY FOR THE EAST BRANCH OF THE RAHWAY RIVER WAS DETERMINED BY USING METHOD 3 AS DESCRIBED IN N.J.A.C. 7:13-3.4.
- PER REFERENCE #1 ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

REFERENCES:

- EXISTING CONDITIONS SHOWN BASED ON DRAWING ENTITLED "BOUNDARY & TOPOGRAPHIC SURVEY: BLOCK 2 LOTS 43.01 & 50; WEST ORANGE TOWNSHIP, ESSEX COUNTY, NJ," PREPARED BY JOHN S. SIMMONS PLS DATED 03/22/20.
- BUILDING LAYOUT SHOWN BASED ON ARCHITECTURAL DRAWING ENTITLED "MEEKER ADDITION; 15 MEEKER STREET; WEST ORANGE, ESSEX COUNTY; NEW JERSEY 07952" PREPARED BY CIRANGLE ARCHITECTS DATED 12/16/19, LAST REVISED JANUARY 26, 2021.

01	07-08-2021	REV. PER NJDEP FHA TECH COMMENTS	DGR
Nr	DATE	DESCRIPTION	BY
REVISIONS:			
OWNER/APPLICANT:			
E & J MASONRY SUPPLY, LLC			
ERNESTO TAMAY			
15 AND 19 MEEKER STREET			
WEST ORANGE, NJ 07052			

FHA FLOOD STORAGE PLAN (TIN METHOD) WITH ELEVATION BANDING

15 AND 19 MEEKER STREET ADDITION

LOCATION:
15 AND 19 MEEKER STREET
LOTS 50 AND 43.01, BLOCK 2
TOWNSHIP OF WEST ORANGE
ESSEX COUNTY,
NEW JERSEY, 07052

Digitally signed by Daniel Reeves
Date: 2021.07.09 15:47:15-04'00'

DANIEL G. REEVES
PROFESSIONAL ENGINEER
LICENSE NUMBER 24GE05292000



DRAWN BY: LMF MSB	CHECKED BY: DGR	DRAWING NUMBER: X-203
SCALE: 1"=20'	DATE: 03-08-2021	
JOB NO: 11401-001	SHEET 01 OF 01	