




LIMITED
HIP
5140

LOT 2
PATRICK FAMILY
PARTNERSH
PLAT NO. 25

DocuSigned by:

380B44A1E56C465..

6/21/2021

ADDRESS CHART	
LOT NUMBER	STREET ADDRESS
3	160B FLORENCE ROAD

BUILDER/DEVELOPER

CARIN CUSTOM HOMES
10548 GORMAN RD
LAUREL, MD 20723
301-490-5317

OWNER

PATRICK FAMILY LIMITED PARTNERSHIP II
1960 DAISY RD
WOODBINE MD 21797

**PERMIT PLAN
PATRICK FAMILY LIMITED
PARTNERSHIP II**

LOT 3

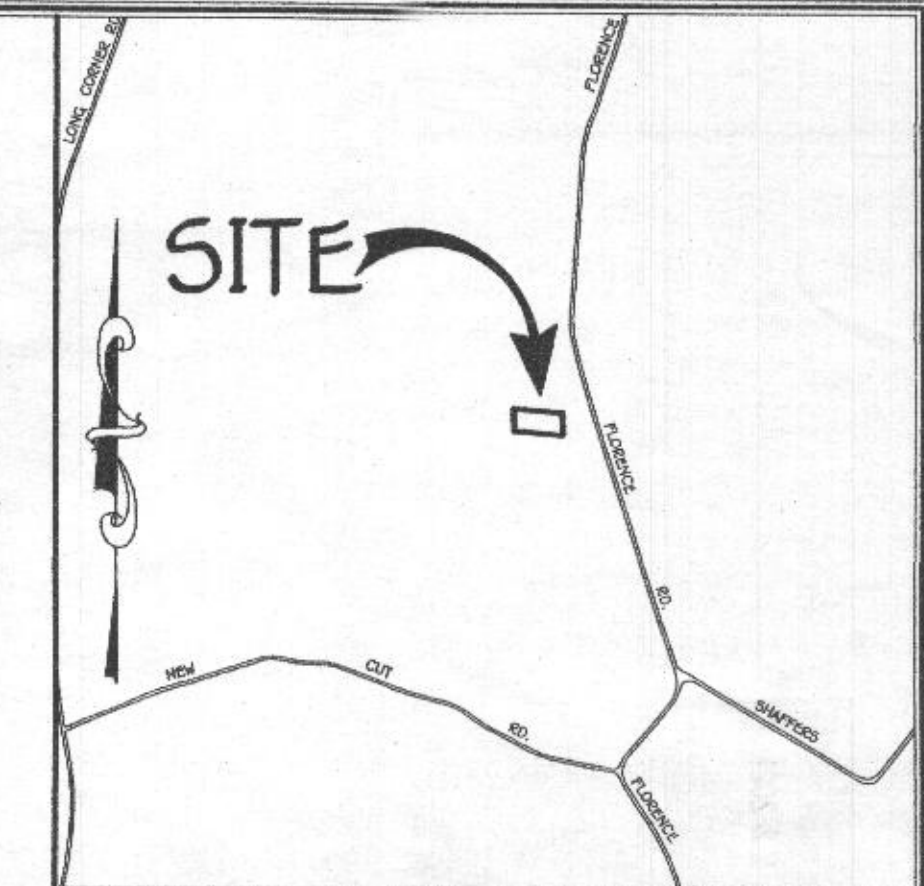
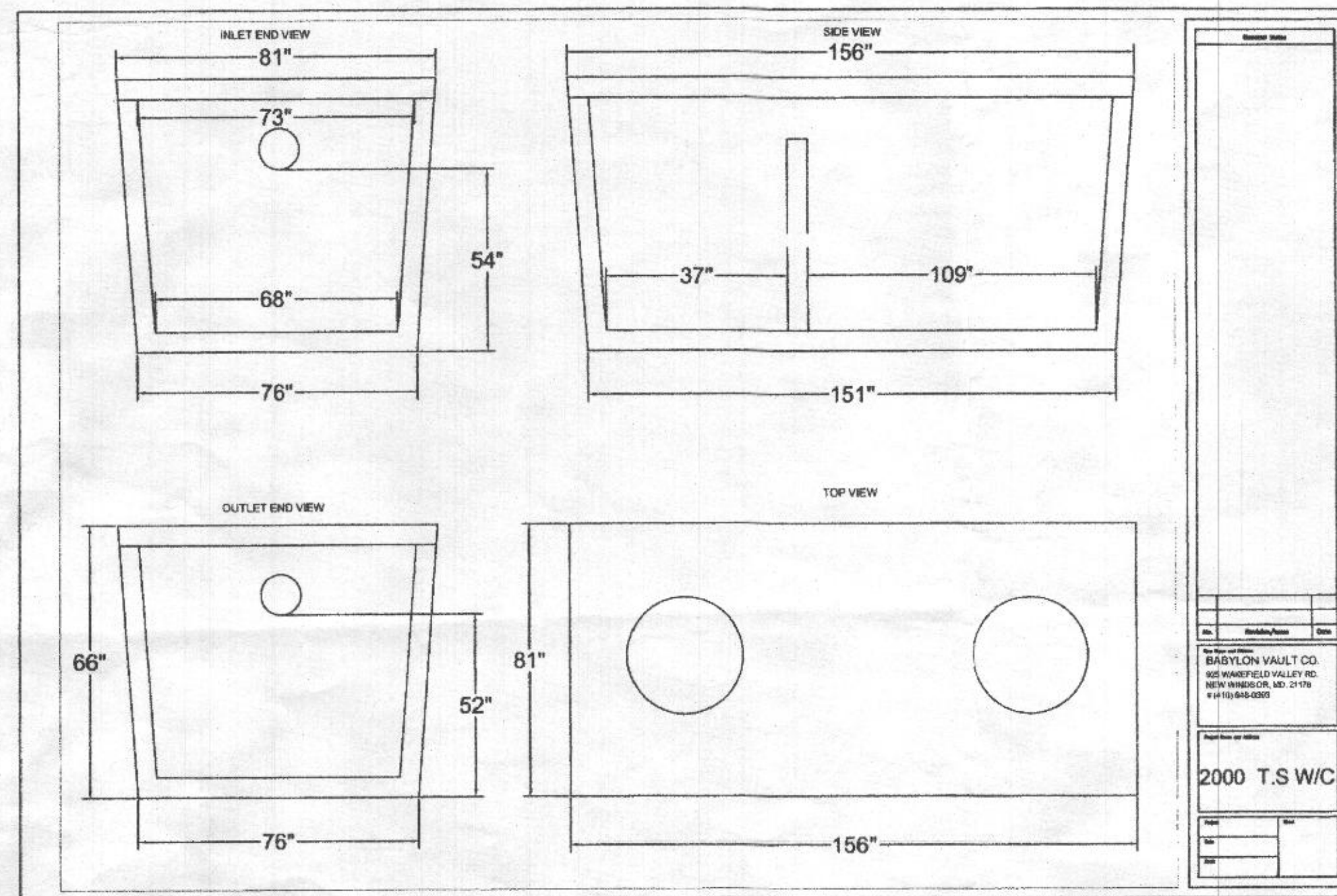
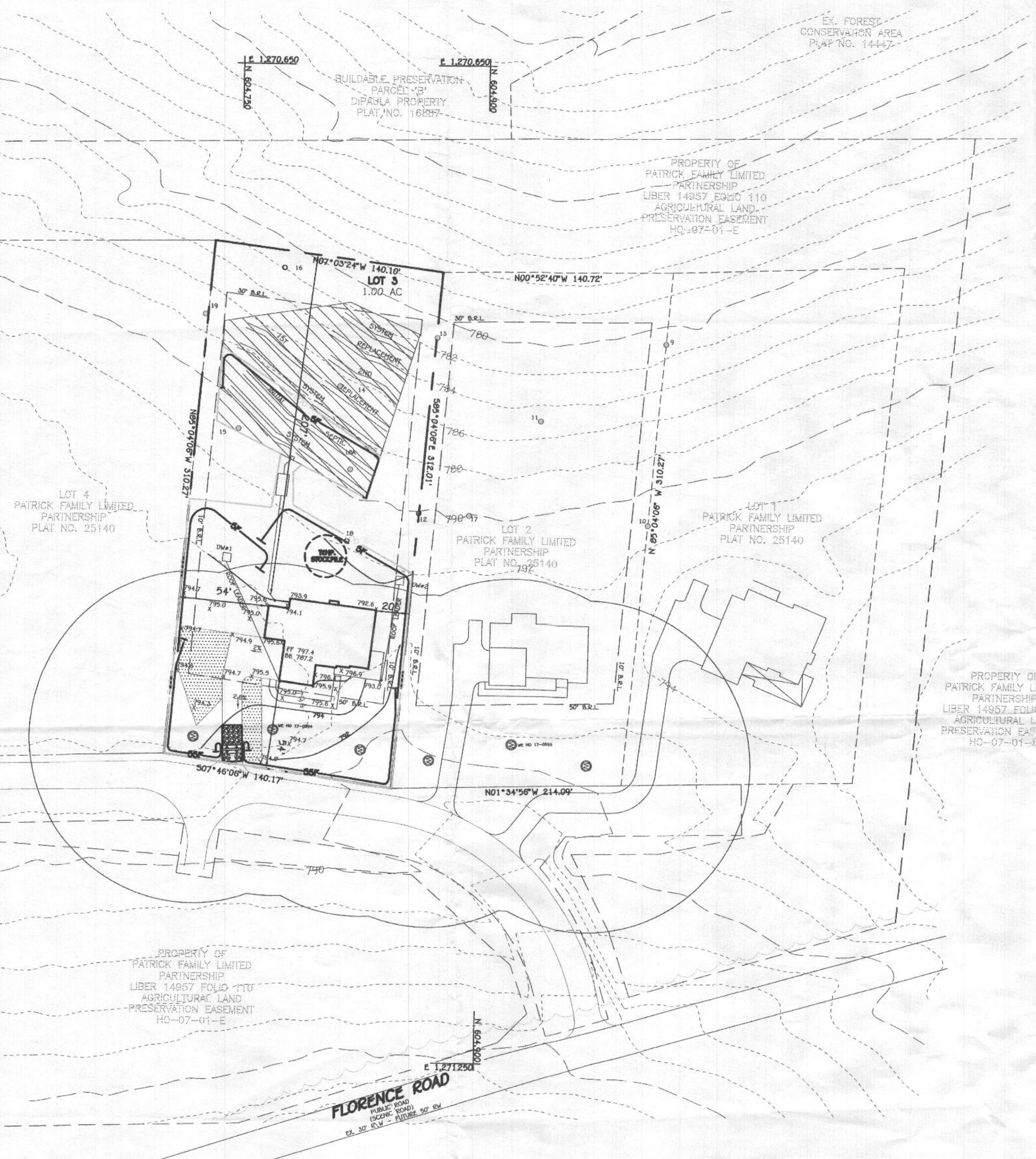
ZONED: RC-DEO

TAX MAP NO.: 6 GRID NO.: 17 PARCEL NO.: 65
4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SCALE: 1" = 40' DATE: APRIL 29, 2020

SHEET 1 OF 1

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
ELLCOTT CITY, MARYLAND 21042
(410) 461 - 2855



TRENCH DATA:

VICINITY MAP
SCALE: 1" = 1200'

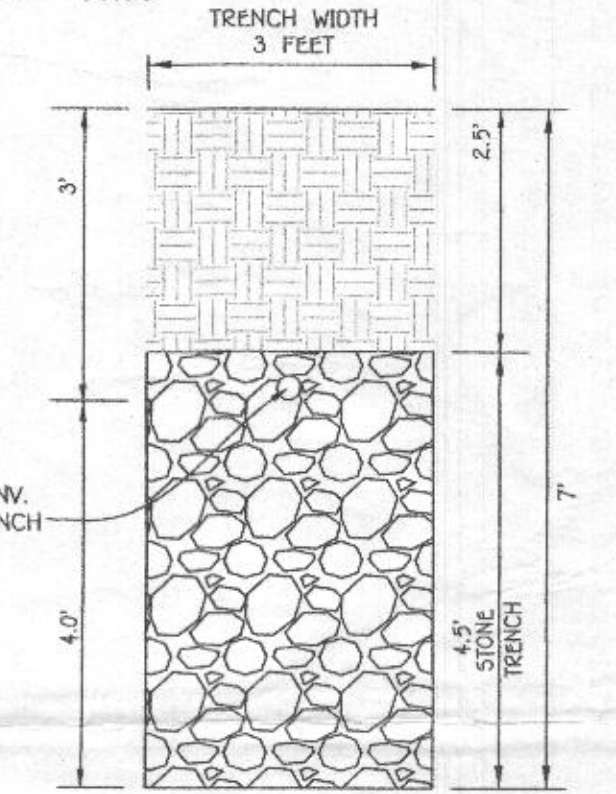
TRENCH 1:
EX. GROUND ABOVE = 789.9
INV. IN = 785.90
BOTTOM TRENCH = 782.9

TRENCH 2:
EX. GROUND ABOVE = 789.9
INV. IN = 785.90
BOTTOM TRENCH = 782.9

TRENCH 3:
EX. GROUND ABOVE = 789.0
INV. IN = 785.0
BOTTOM TRENCH = 782.0

TRENCH 4:
EX. GROUND ABOVE = 789.0
INV. IN = 785.0
BOTTOM TRENCH = 782.0

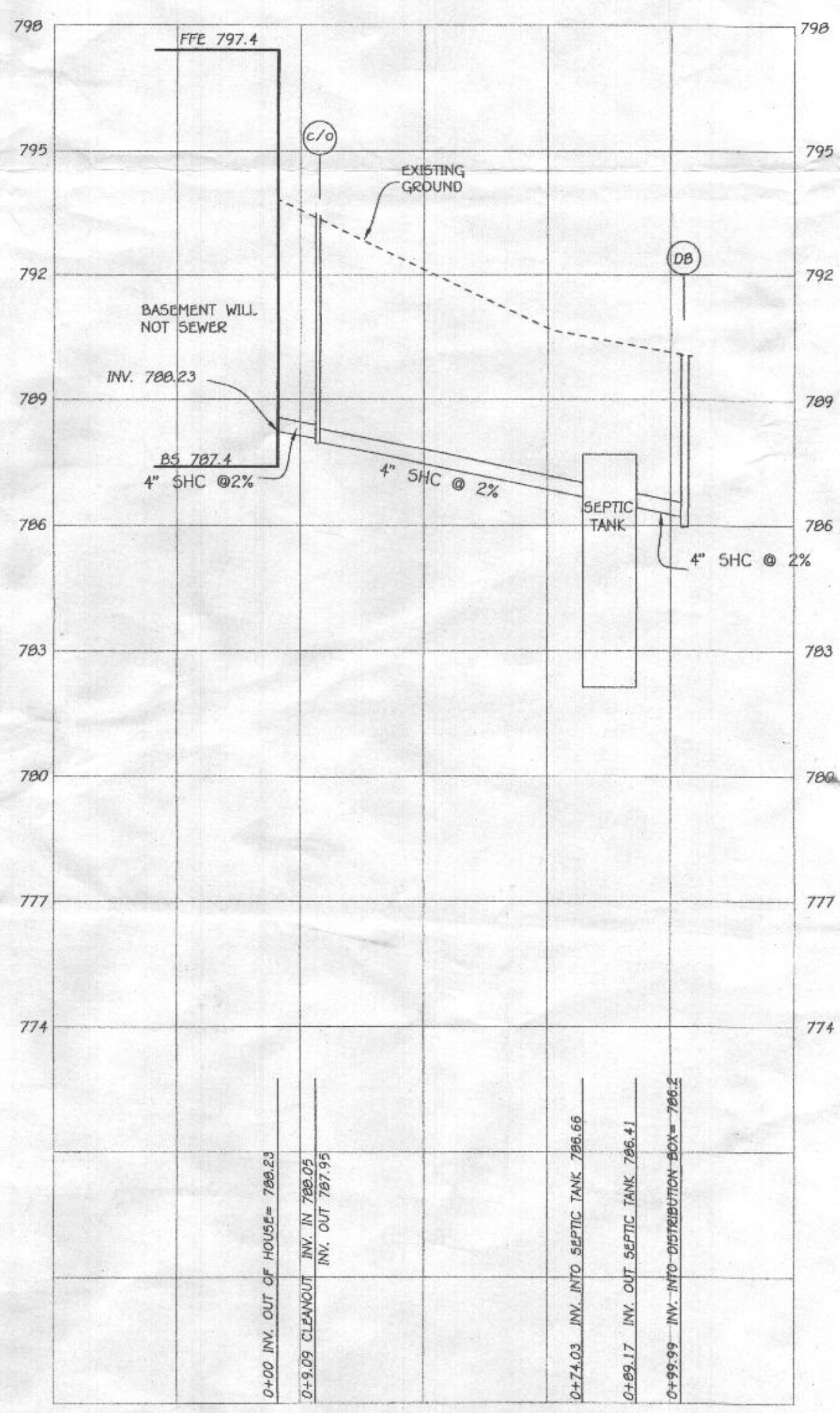
FFE 797.4
BSE 787.2
INV. OUT OF HOUSE = 788.23
PROP. GROUND AT CLEANOUT #1 = 793.9
INV. INTO CLEANOUT = 788.05
INV. OUT OF CLEANOUT = 787.95
EX. GROUND AT SEPTIC TANK = 790.66
PROP. GRADE ABOVE SEPTIC TANK = 790.66
TOP OF SEPTIC TANK = 787.66
INV. INTO SEPTIC TANK = 786.66
INV. OUT OF SEPTIC TANK = 786.41
EX. GROUND AT DISTRIBUTION BOX = 790.1
INV. INTO DISTRIBUTION BOX = 786.2
INV. OUT OF DISTRIBUTION BOX = 786.1



INITIAL SYSTEM
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 5 FEET
TRENCH DEPTH = 7 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 2 FEET
SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 2)) = 0.625$
TRENCH LENGTH = 312.50 SF x 0.625 = 195.31 FEET
(USE 4 TRENCHES AT 48.83 LF.)
TRENCH SPACING = $2D+W = ((2 \times 2) + 3) = 7'$ USE 10'

1ST REPLACEMENT SYSTEM
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 0.8
EFFECTIVE SIDEWALL BEGINS AT 4 FEET
TRENCH DEPTH = 6 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 2 FEET
SF OF DRAINFIELD = 750 GPD / 0.8 = 937.5 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 2)) = 0.625$
TRENCH LENGTH = 312.50 SF x 0.625 = 195.31 FEET
(USE 4 TRENCHES AT 48.83 LF.)
TRENCH SPACING = $2D+W = ((2 \times 2) + 3) = 7'$ USE 10'

2ND REPLACEMENT SYSTEM
SEWAGE DISPOSAL SYSTEM DATA, DESIGN FOR 5 BEDROOMS
LOADING RATE = 5 BEDROOMS X 150 GPD/BEDROOM = 750 GPD
APPLICATION RATE = 1.2
EFFECTIVE SIDEWALL BEGINS AT 4.5 FEET
TRENCH DEPTH = 6 FEET
TRENCH WIDTH (W) = 3 FEET
EFFECTIVE DEPTH (D) = 1.5 FEET
SF OF DRAINFIELD = 750 GPD / 1.2 = 625 SF
COEFFICIENT OF REDUCTION OF TRENCH LENGTH = $(W+2)/(W+1+2D) = (3+2)/(3+1+(2 \times 1.5)) = 0.71$
TRENCH LENGTH = 208.33 SF x 0.71 = 147.92 FEET
(USE 3 TRENCHES AT 49.31 LF.)
TRENCH SPACING = $2D+W = ((2 \times 1.5) + 3) = 6'$ USE 10'



LEGEND

SYMBOL	DESCRIPTION
---	EXISTING CONTOUR 2' INTERVAL
- - -	PROPOSED CONTOUR 2' INTERVAL
+ 362.5	SPOT ELEVATION
-5SF-5SF-	SUPER SILT FENCE
---	WALKOUT BASEMENT
---	LIMITS OF DISTURBANCE
ECM	EROSION CONTROL MATTING
---	STONE CONSTRUCTION ENTRANCE

- ANY CHANGE TO THE LOCATIONS OR DEPTHS TO ANY COMPONENTS MUST BE APPROVED BY THE ENGINEER AND THE HOWARD COUNTY HEALTH DEPARTMENT PRIOR TO INSTALLATION. A REVISED SITE PLAN MAY BE REQUIRED.
- THE MAXIMUM EARTH COVER OVER THE TANK IS 3 FEET. GREATER EARTH COVER WILL REQUIRE A HEAVY LOAD BEARING TANK.
- THE WELL HO-17-0394 HAS BEEN FIELD LOCATED AND IS ACCURATELY SHOWN.
- ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELLS AND/OR SEPTIC SYSTEMS HAVE BEEN SHOWN.



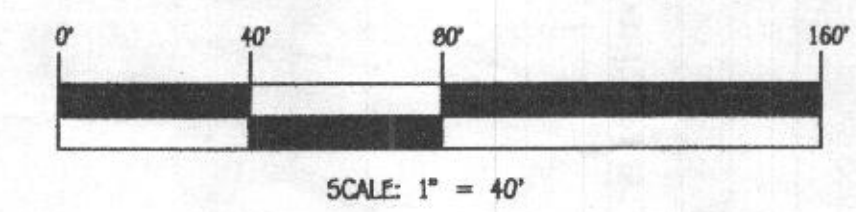
PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 20748, EXPIRATION DATE: 02/22/2023.

Michael Vitucci
Signature of Professional Engineer

7/23/21
DATE

ADDRESS CHART

LOT NUMBER	STREET ADDRESS
3	1608 FLORENCE ROAD



OWNER/DEVELOPER
PATRICK FAMILY LIMITED PARTNERSHIP II
1960 DASY RD
WOODBINE MD 21797
xxx-xxx-xxxx

BUILDER
CARON CUSTUM HOMES
10540 GORMAN RD
LAUREL MD 20723
301-490-5317

FISHER, COLLINS & CARTER, INC.
CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
CENTRAL SQUARE OFFICE PARK - 1027 BALDWIN NATIONAL PKWY
ELICOTT CITY, MARYLAND 21042
4100 461 - 2000

NO.	REVISION	DATE

SEPTIC PROFILE
SCALE: 1" = 30'

SEPTIC SYSTEM INSTALLATION SITE PLAN
PATRICK FAMILY LIMITED PARTNERSHIP
LOT 3
ZONED: RC-DEO
TAX MAP NO.: 6 GRID NO.: 17 PARCEL NO.: 65
4TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
SCALE: 1" = 40' DATE: JUNE 17, 2021
SHEET 1 OF 1

Approved Septic System Plan
Howard County Health Department
Dana Burned 8-4-21
Signature Date