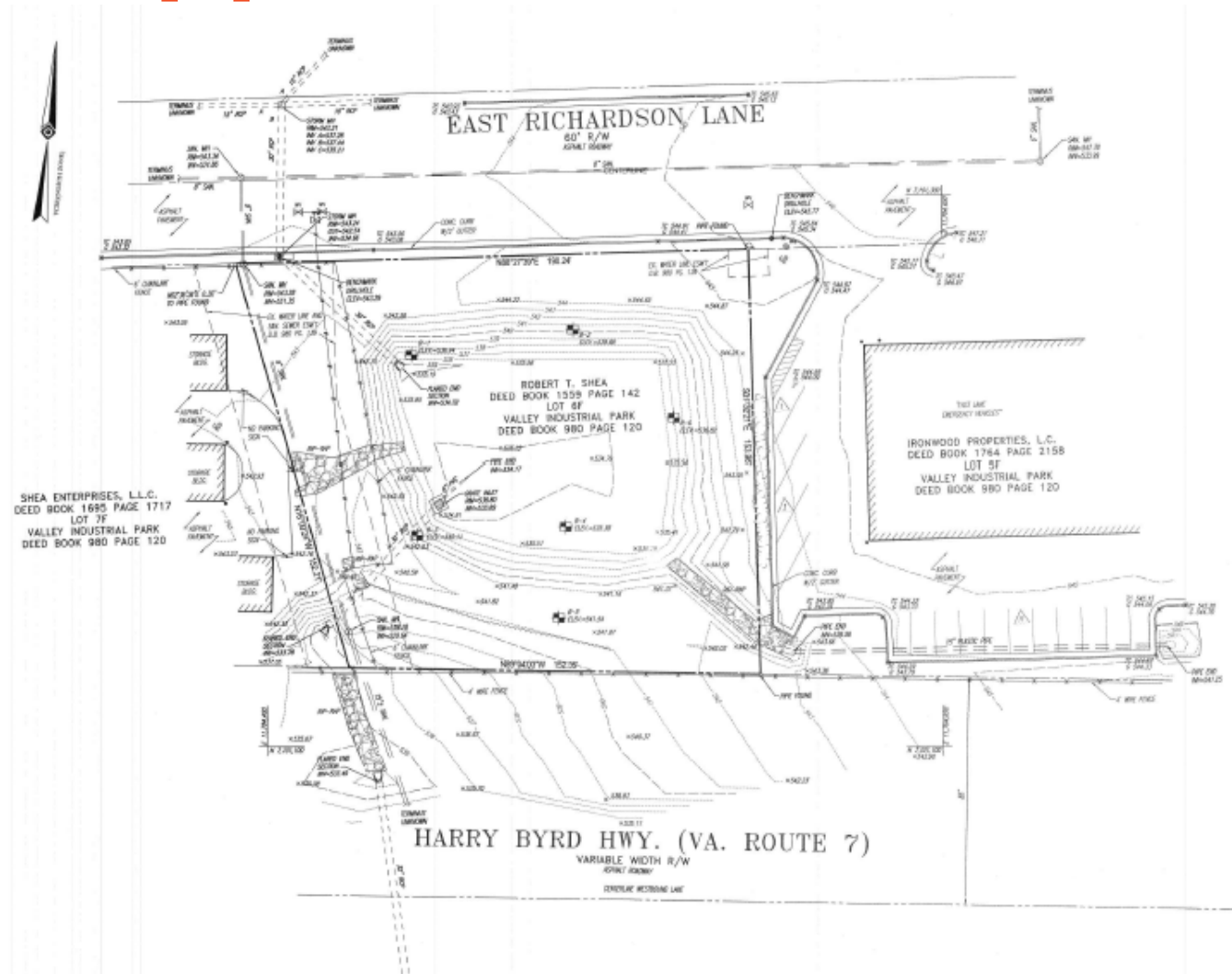


Valley **SELF STORAGE**

**Valley Industrial Park, Lot 6F
Self Storage Facility
TP15-10**

BOHLER //

Lot 6F Application Overview



[illegible]

Lot 6F Application Overview

What is there today?

- o Aboveground pond
- o 6.60 Acres Drain there currently
- o 4.35 Acres Impervious exist offsite
- o Existing pond is non-compliant with current State requirements

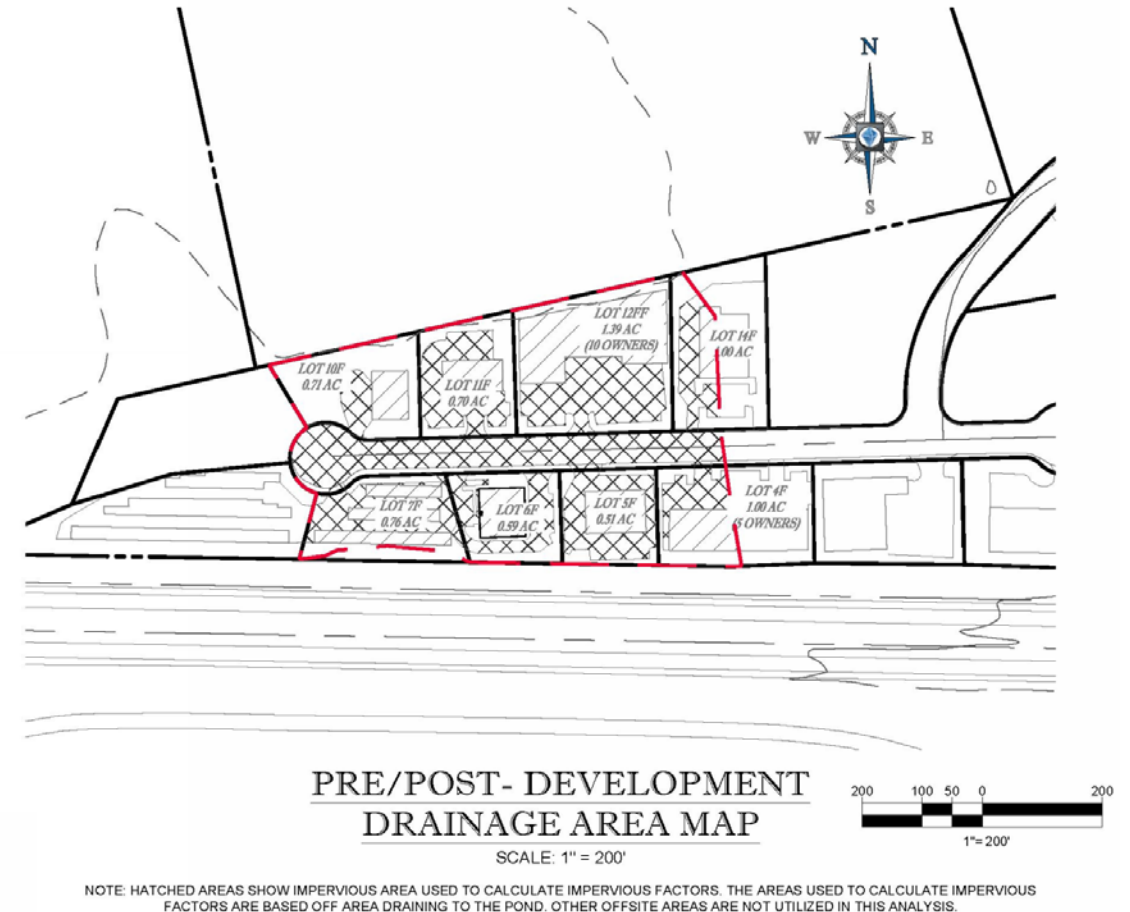
Lot 6F Application Overview

What is being provided?

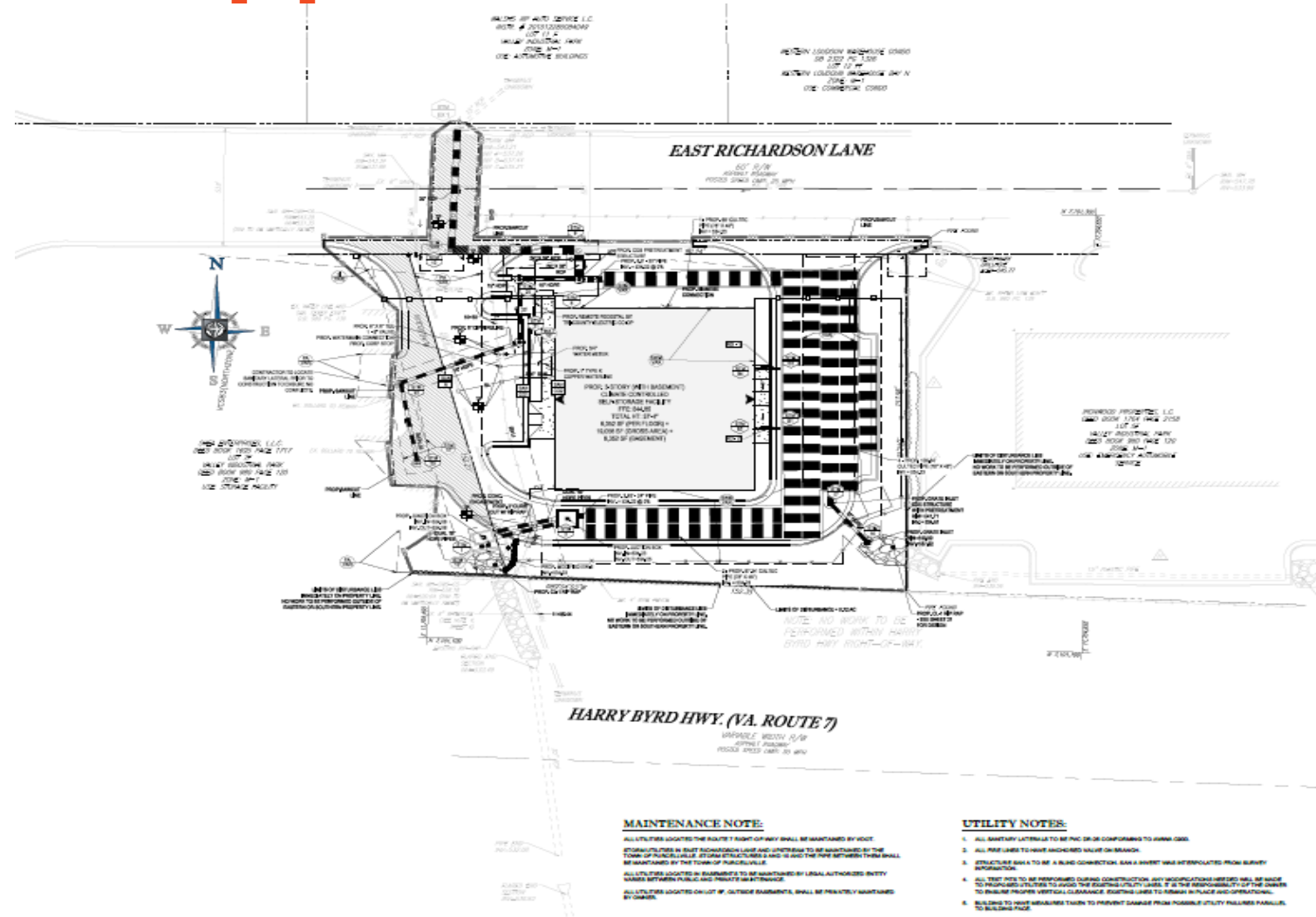
- oUnderground pond
- o6.60 Total Acres will continue to drain there
- o5.58 Acres Impervious will be accounted for

Lot 6F Application Overview

- o The proposed stormwater management facility brings the legacy storm drainage up to code requirements.
- o If a Lot Owner wished to redevelop their site after the Valley Storage SWM installation, within the stormwater standards that currently govern, they would not need to provide additional quantity treatment.



Lot 6F Application Overview



Lot 6F Application Overview

oBased on the downstream analysis as seen in the Application, the capacity provided in the downstream pipes is 35cfs allowable for the 50-year storm event.

oThe SWM pond volume increases 50%.

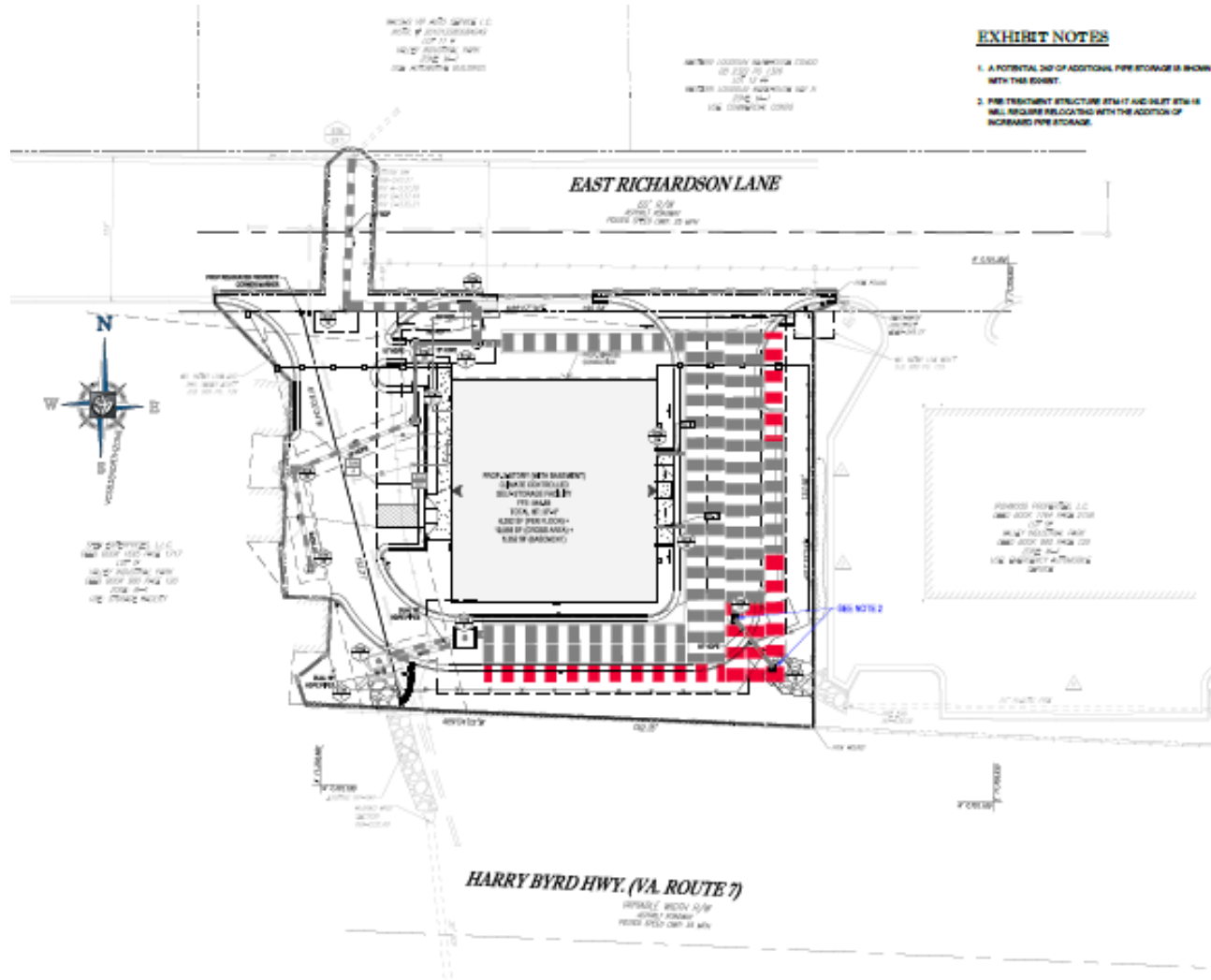
oThe SWM design meets the current State requirements

PRE VS. POST ROUTING (QUANTITATIVE) SUMMARY		
	PRE-DEVELOPMENT	POST-DEVELOPMENT
2-YEAR	ELEV = 536.35' STORAGE = 7,077 CF DRAWDOWN TIME = 10.25 HR	ELEV = 536.19' STORAGE = 10,759 CF DRAWDOWN TIME = 12.05 HR
10-YEAR	FLOW RATE = 8.37 CFS	FLOW RATE = 27.10 CFS (SEE NOTE 1)
50-YEAR	FLOW RATE = 17.61 CFS	FLOW RATE = 34.82 CFS (SEE NOTE 1)

NOTES:

1. BASED ON ZICHT ANALYSIS (SHEET 13, NOTE 1.5), 35 CFS ALLOWABLE DISCHARGE.

Lot 6F Application Overview

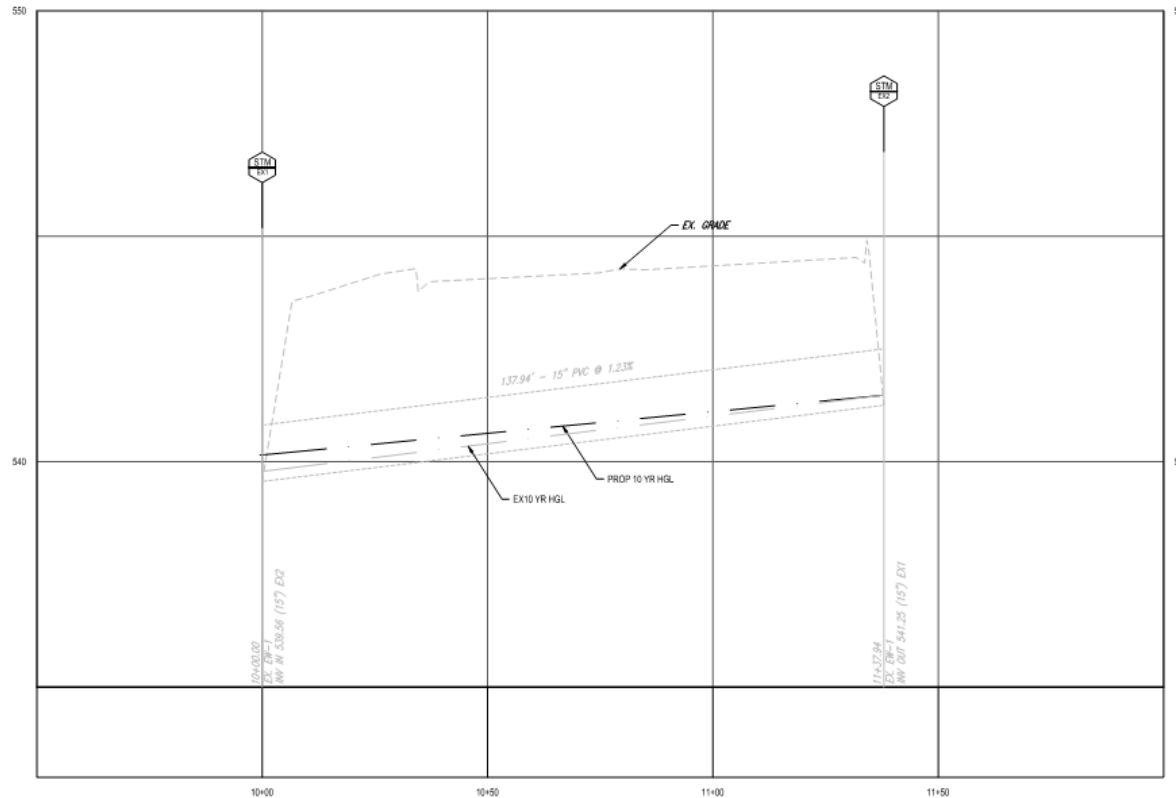


Lot 6F Application Overview

Potential Additional Storage Capacity

- oPotential for an additional 240' of detention system
- oAdditional 3,637 CF of storage
- oPotential total storage area of 14,395 CF
- oDouble the amount of storage which currently exists

Hydraulic Grade Line EX2-EX1



EXISTING STORM PROFILE EX1 TO EX2

- o 10-Year Water Surface Elevation from Proposed Pond Design create a Hydraulic Grade Line as seen here with the dashed line inside the pipe along the Southern border of the property.
- o The 10-Year Water Surface Elevation has been maintained with this proposed design.
- o There are no concerns with ponding water at either end of the culvert on this property.