

# FOREST CREEK ESTATES - DETENTION SYSTEMS EXHIBIT

SE1/4, NE1/4, SEC. 24, TWP. 24 N., RGE. 4 E., W.M.

## DETENTION PIPE SYSTEMS DISCRPTION:

THIS EXHIBIT IS PROVIDED TO SHOW THE PROPOSED DETENTION PIPE SYSTEMS FOR STORMWATER MANAGEMENT FOR FUTURE BUILDOUT OF ALL LOTS (1 THRU 4) PART OF FOREST CREEK ESTATES DEVELOPMENT. TWO DETENTION PIPE SYSTEMS ARE PROPOSED, SYSTEM A PROVIDES DETENTION FOR LOTS 3 & 4, AND SYSTEM B PROVIDES DETENTION FOR LOTS 1 & 2. THE FINAL DESIGN AND SIZING ARE SUBJECT TO MINOR CHANGES WHEN BUILDING PERMITS ARE SUBMITTED FOR EACH LOT.

Description	Impervious Area Inventory (sf)			
	Roof, Drive, and HS	Walls	Offsite	Total
Lot 4	3,866	141		4,007
Lot 3	5,007	93	253	5,353
Lot 2	5,770	60	670	6,500
Lot 1*	4,761	139		4,900
<b>Total</b>	<b>19,404</b>	<b>433</b>	<b>923</b>	<b>20,760</b>

Description	Impervious Areas* (sf)		Required Length for 60" dia. Pipe	
	A	B	A**	B***
Lots 3 & 4	9360		58	
Lots 1 & 2		11399		70

\*Including new and replaced hardsurfaces offsite  
 \*\*Sized per Standard Table for 60" dia. Pipe with Impervious Areas between 9,001 sf - 9,500 sf => 58 lf  
 \*\*\*Sized at 164 SF/LF of 60" dia. Pipe (9,500 sf/58 lf)

Detention System A Elevations		
Description	Elevation (ft)	Inc. Depth (ft)
FG Min.*	106.9	1.5
DWS	105.4	4.5
L/D	100.9	0.0
Sed. (=L/D)	100.9	0.5
Bottom	100.4	1.0
Excavation	99.4	1.0

\*Beneath Driveway

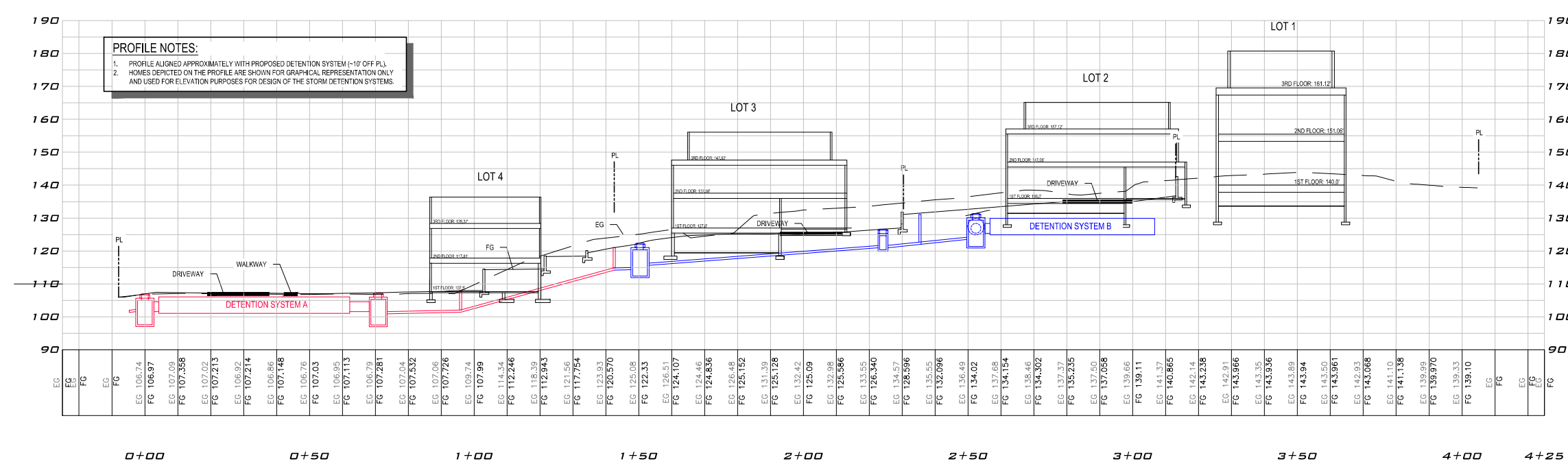
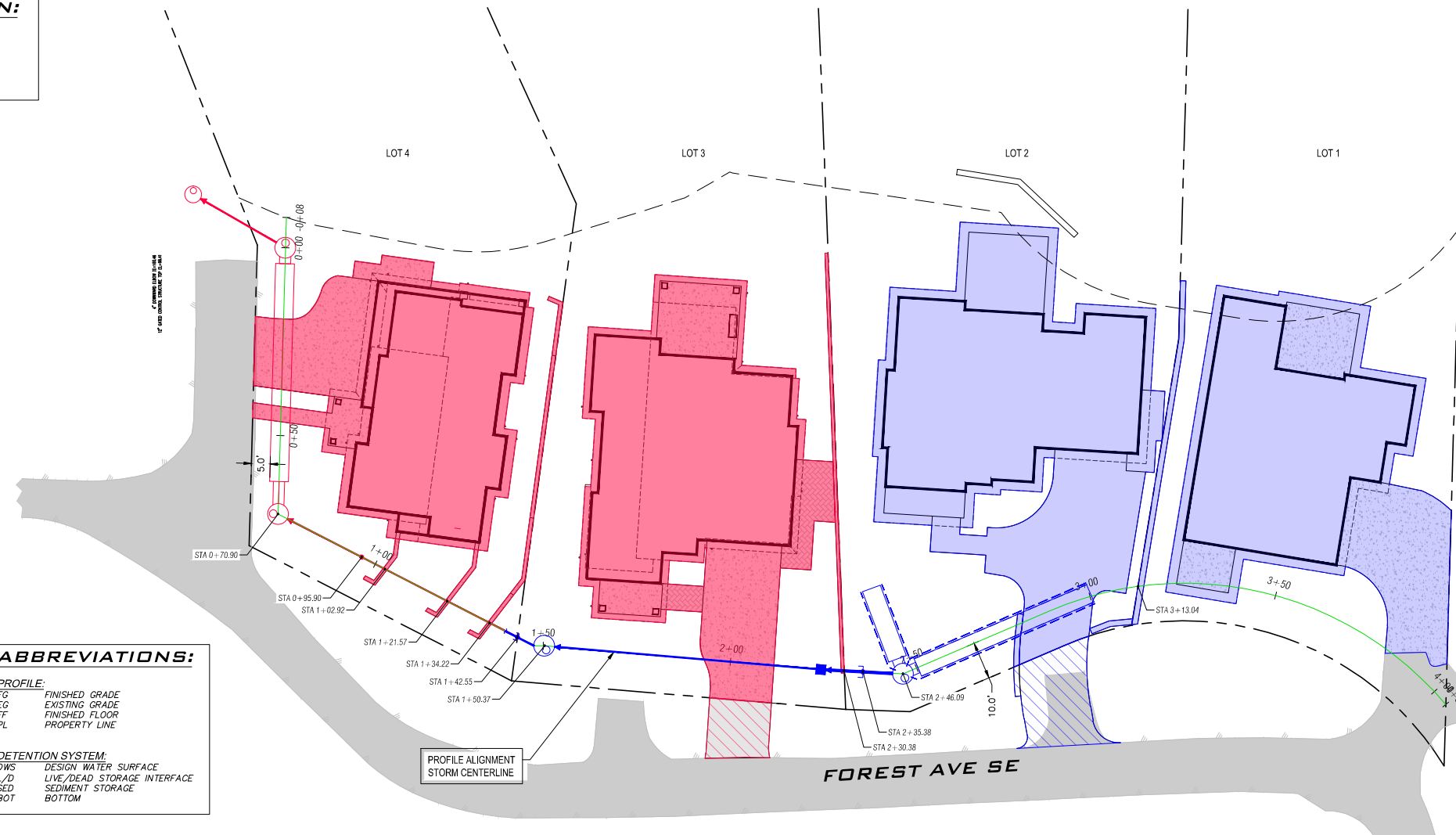
Detention System B Elevations		
Description	Elevation (ft)	Inc. Depth (ft)
FG Min.*	130.5	1.5
DWS	129.0	4.5
L/D	124.5	0.0
Sed. (=L/D)	124.5	0.5
Bottom	123.5	1.0
Excavation	122.5	1.0

\*Beneath Driveway

**ABBREVIATIONS:**

**PROFILE:**  
 FG FINISHED GRADE  
 EG EXISTING GRADE  
 FF FINISHED FLOOR  
 PL PROPERTY LINE

**DETENTION SYSTEM:**  
 DWS DESIGN WATER SURFACE  
 L/D LIVE/DEAD STORAGE INTERFACE  
 SED SEDIMENT STORAGE  
 BOT BOTTOM



BY	
DESCRIPTION	
DATE	
R#	
<b>BUILDING PERMIT</b> <b>DETENTION SYSTEMS</b> <b>EXHIBIT</b>	
 Civil Engineering & Planning 14900 Meridian Ave. S. Suite 279, Seattle, WA 98148 Phone: 206.674.4659 / Fax: 206.674.4660 Web: patrickharron.com	
PROJ. NO.	20113
DSN. BY:	SC
DSN. BY:	CWA
CHK. BY:	SC
<b>FOREST CREEK ESTATES</b> <b>DETENTION SYSTEMS</b> <b>EXHIBIT</b>	
5202 FOREST AVENUE S.E. MERCER ISLAND, WA 98040	
DATE:	10/14/22
SCALE:	AS SHOWN
DRAWING NO.:	EX-DET
	1 OF 1

Oct 14, 2022 2:31:11PM - User Nick Millman  
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