

RETAINING WALL DESIGN UPDATE

May 23, 2024

Re: 8243 West Mercer Way, Mercer Island, WA
Permit No: 1812-087

Attention: Building Inspection Department

JUN Consulting Ltd. has been requested by Wen Hu to perform a structural design of a reinforced REDI-ROCK retaining wall located at 8243 West Mercer Way, Mercer Island, WA.

Originally, the retaining wall adjacent to the driveway has been illustrated in the drawing “C-3 Drainage Plan” prepared by Nick Bossoff Engineering, Inc. with elevation only but no detailed design provided, as shown below in Figure 1.

We provide a new design of 10ft ± high reinforced REDI-ROCK retaining wall with location shown in Figure 2, based on project geotechnical report No. 17-405 by PANGEO dated 02/08/2018, International Building Code (IBC), all reference codes, and all local by-laws.

For additional information please refer to the drawing attached to this letter, or or feel free to contact our office if you have any questions or require hard-copies of the documentation.

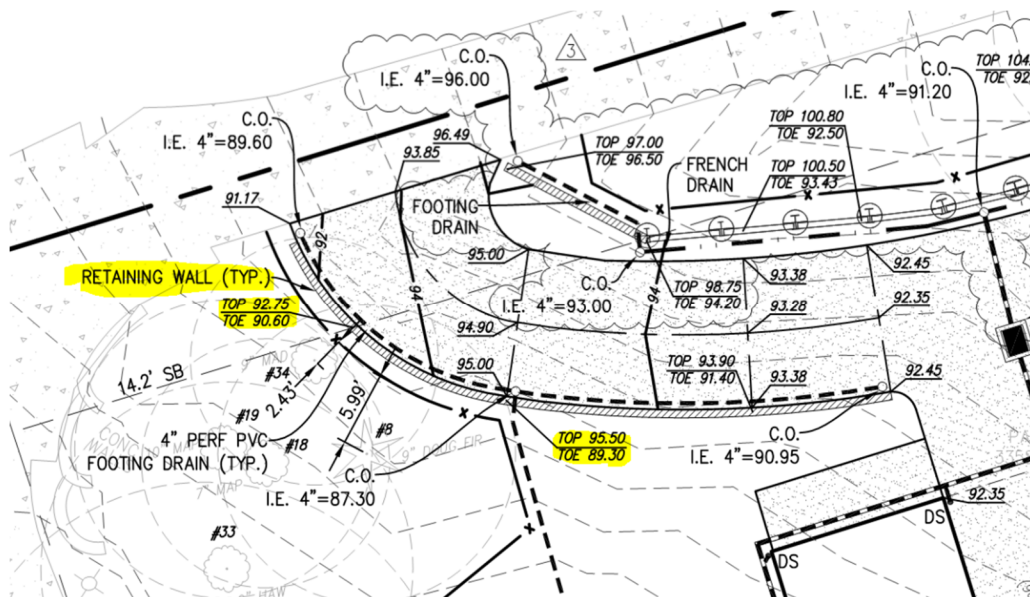


Figure 1 Original Layout of Retaining Wall

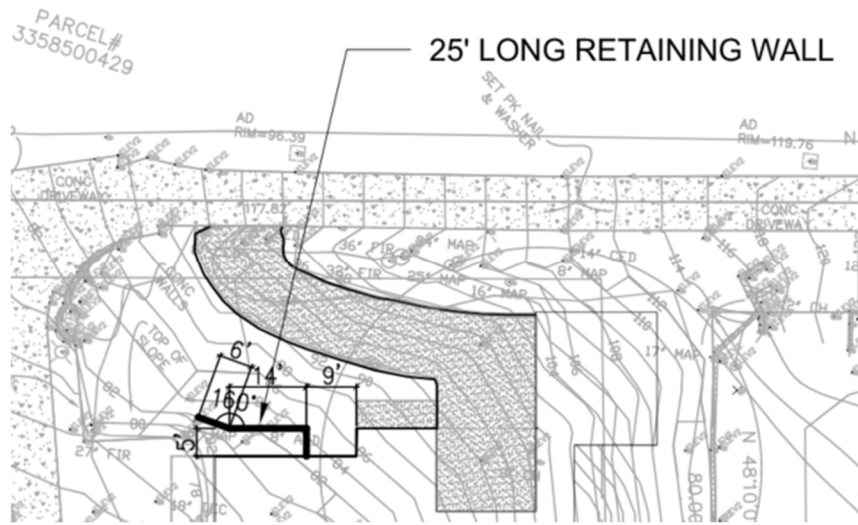
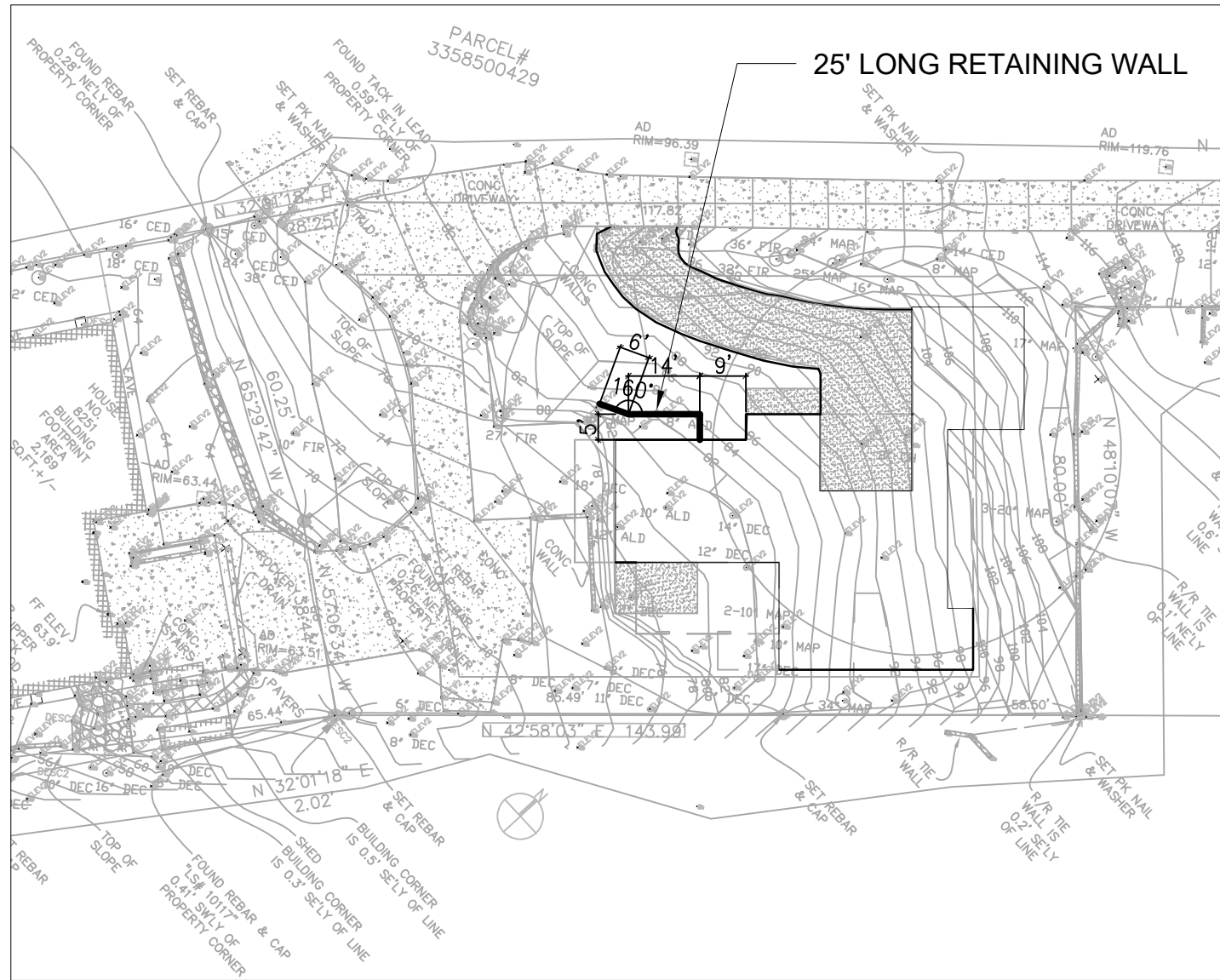


Figure 2 New Location of Retaining Wall

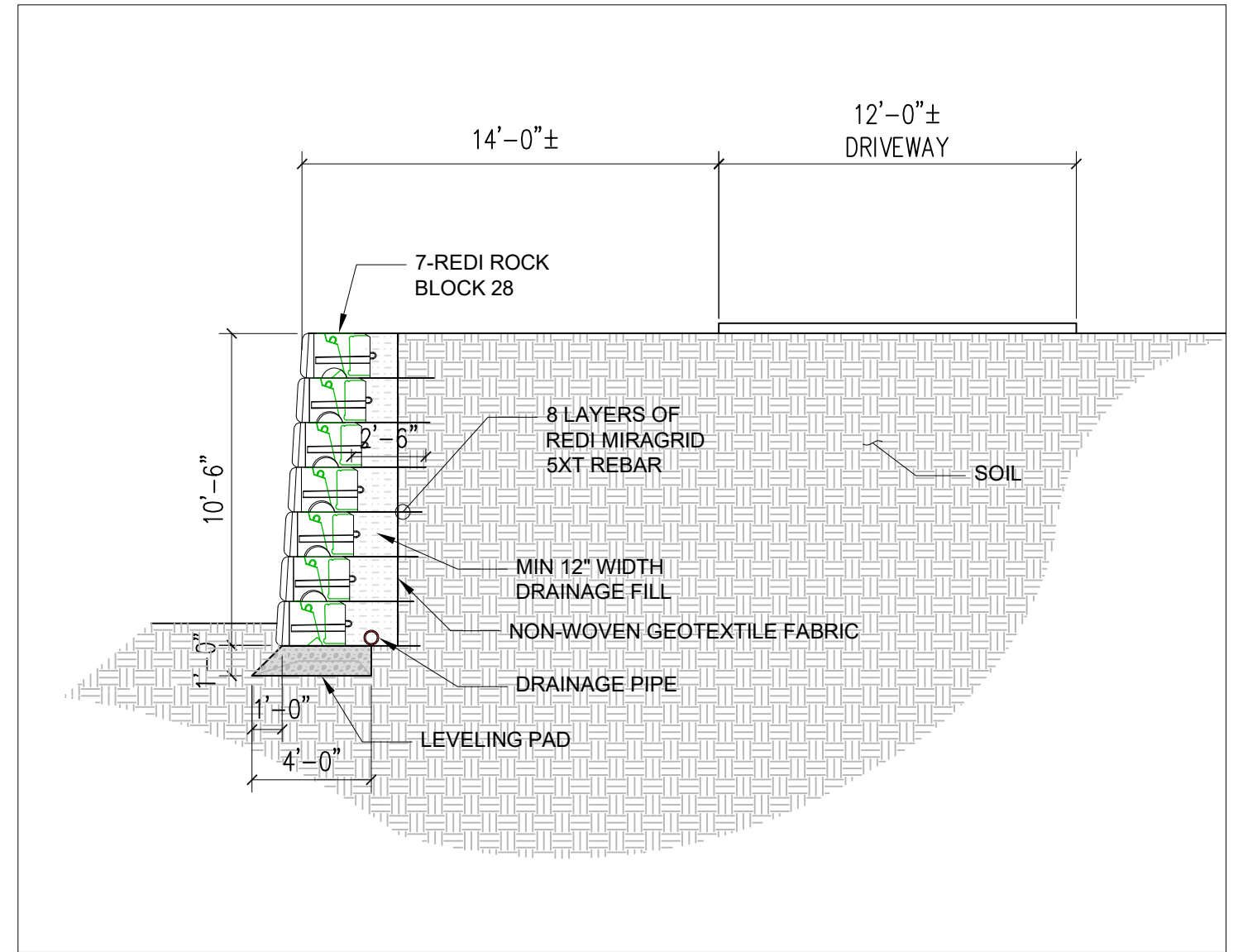
Prepared by:

JUN CONSULTING LTD.

Jun Wang, P.E., P.Eng, PMP, LEED AP



RETAINING WALL PLAN VIEW
1/32"=1'-0"



RETAINING WALL DETAILS
1-1/2"=1'-0"

NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE (IBC), ALL REFERENCE CODES, AND ALL LOCAL BY-LAWS.
2. SURCHARGE LOAD:
DRIVEWAY DEAD LOAD=50 PSF, DRIVEWAY LIVE LOAD=300 PSF
3. ALLOWABLE SOIL BEARING PRESSURE OF 3000 PSF IS USED PER PROJECT GEOTECHNICAL REPORT NO. 17-405 BY PANGEO DATED 02/08/2018. IT IS CONTRACTORS RESPONSIBILITY TO VERIFY THAT BLOCKS BEAR ON FIRM AND COMPACTED 1 FT THICKNESS LEVELING PAD.
4. BLOCK SETBACKS FOLLOW MANUFACTURES DIRECTION.
5. BLOCK RETAINING WALL SHALL BE INSTALLED PER THE REQUIREMENTS OF THE MANUFACTURER.

NO.	DATE	REVISION / ISSUE
2	05/23/2024	ISSUED FOR BUILDING PERMIT
1	05/20/2024	ISSUED FOR BUILDING PERMIT



DESIGNER:

PROJECT:

RETAINING WALL
WEN HU RESIDENCE
8243 WEST MERCER WAY
MERCER ISLAND, WA 98040

DRAWING TITLE:

RETAINING WALL PLAN VIEW
AND DETAILS

DWG No.

S1