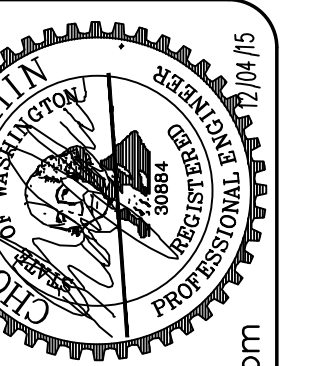


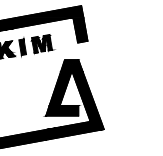
ISSUED DATE:

CRITICAL AREA DETERMINATION SEP 25, 2018



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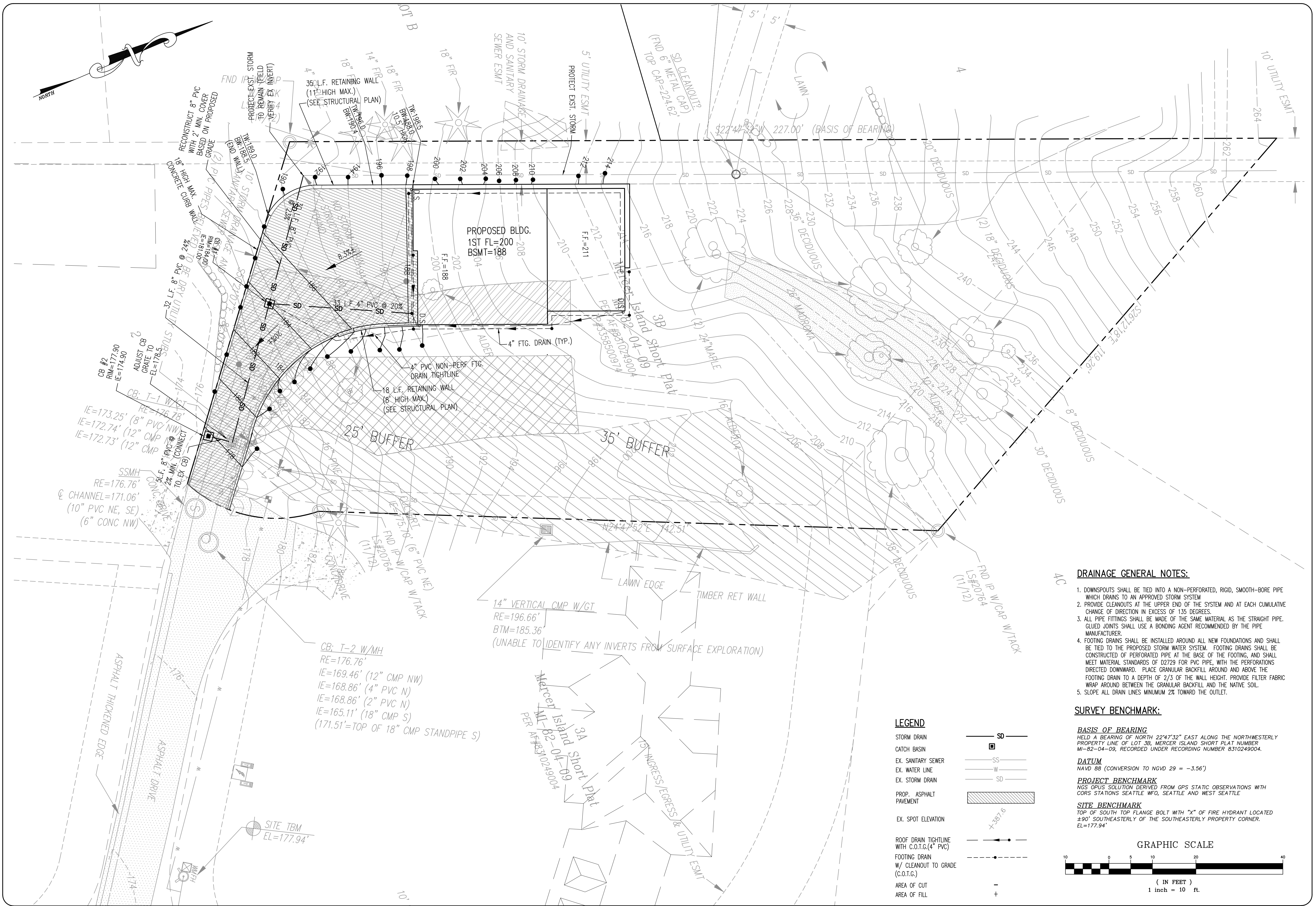


LEE RESIDENCE  
8114 WEST MERCER WAY  
MERCER ISLAND WA 98040

PAVING AND GRADING PLAN

FILE 21230

C2.0



**DRAINAGE GENERAL NOTES:**

1. DOWNSPOUTS SHALL BE TIED INTO A NON-PERFORATED, RIGID, SMOOTH-BORE PIPE WHICH DRAINS TO AN APPROVED STORM SYSTEM
2. PROVIDE CLEANOUTS AT THE UPPER END OF THE SYSTEM AND AT EACH CUMULATIVE CHANGE OF DIRECTION IN EXCESS OF 135 DEGREES.
3. ALL PIPE FITTINGS SHALL BE MADE OF THE SAME MATERIAL AS THE STRAIGHT PIPE. GLUED JOINTS SHALL USE A BONDING AGENT RECOMMENDED BY THE PIPE MANUFACTURER.
4. FOOTING DRAINS SHALL BE INSTALLED AROUND ALL NEW FOUNDATIONS AND SHALL BE TIED TO THE PROPOSED STORM WATER SYSTEM. FOOTING DRAINS SHALL BE CONSTRUCTED OF PERFORATED PIPE AT THE BASE OF THE FOOTING, AND SHALL MEET MATERIAL STANDARDS OF D2729 FOR PVC PIPE, WITH THE PERFORATIONS DIRECTED DOWNWARD. PLACE GRANULAR BACKFILL AROUND AND ABOVE THE FOOTING DRAIN TO A DEPTH OF 2/3 OF THE WALL HEIGHT. PROVIDE FILTER FABRIC WRAP AROUND BETWEEN THE GRANULAR BACKFILL AND THE NATIVE SOIL.
5. SLOPE ALL DRAIN LINES MINIMUM 2% TOWARD THE OUTLET.

**SURVEY BENCHMARK:**

**BASIS OF BEARING**  
HELD A BEARING OF NORTH 22°47'32" EAST ALONG THE NORTHWESTERLY PROPERTY LINE OF LOT 3B, MERCER ISLAND SHORT PLAT NUMBER M-82-04-09, RECORDED UNDER RECORDING NUMBER 8310249004.

**DATUM**  
NAVD 88 (CONVERSION TO NGVD 29 = -3.56')

**PROJECT BENCHMARK**  
NGS OPUS SOLUTION DERIVED FROM GPS STATIC OBSERVATIONS WITH CORS STATIONS SEATTLE WFO, SEATTLE AND WEST SEATTLE

**SITE BENCHMARK**  
TOP OF SOUTH TOP FLANGE BOLT WITH "X" OF FIRE HYDRANT LOCATED ±90° SOUTHEASTERLY OF THE SOUTHEASTERLY PROPERTY CORNER.  
EL=177.94'

**GRAPHIC SCALE**



**LEGEND**

- STORM DRAIN — SD —
- CATCH BASIN [Symbol]
- EX. SANITARY SEWER — SS —
- EX. WATER LINE — W —
- EX. STORM DRAIN — SD —
- PROP. ASPHALT PAVEMENT [Symbol]
- EX. SPOT ELEVATION [Symbol]
- ROOF DRAIN TIGHTLINE WITH C.O.T.G.(4" PVC) [Symbol]
- FOOTING DRAIN W/ CLEANOUT TO GRADE (C.O.T.G.) [Symbol]
- AREA OF CUT -
- AREA OF FILL +