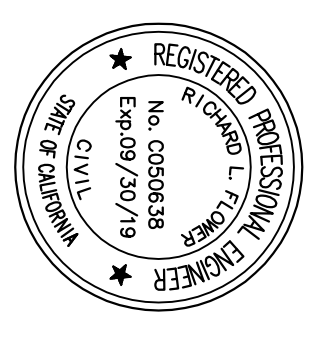


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0" = 1' = 2"
THIS IS THE SCALE OF THE ORIGINAL DRAWING

RESIDENTIAL DEVELOPMENT

LOTS 9 & 10, BLK 5
CARQUINEZ SCENIC DR
MARTINEZ, CA

CIVIL DRAWINGS

GRADING PLAN

PROJECT NO.	217-35 & 217-36
RELEASE DATE:	01-15-19
PLAN REVIEW:	
SHEET NO.	C2.0

GRADING PLAN NOTES:

- SITE GRADING SHALL CONFORM TO THE UPDATED GEOTECHNICAL REPORT PREPARED BY GEOTECHNICAL, DATED MARCH 20, 2017. RECOMMENDATIONS OUTLINED IN THIS REPORT ARE NOTED HEREIN AND SHALL BE ADHERED TO. THE GEOTECHNICAL ENGINEER OF RECORD SHALL REVIEW AND APPROVE THIS GRADING PLAN PRIOR TO ISSUANCE OF A PERMIT.
- OVEREXCAVATION: PORTIONS OF EXCAVATIONS WITH LOOSE OR SOFT SOILS SHALL BE OVEREXCAVATED. THE ACTUAL DEPTH AND EXTENT OF EXCAVATION SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF FILL OR IMPROVEMENTS. DEPTH OF EXCAVATION SHALL BE IDENTIFIED AREAS OF WEAK SOILS THAT SHALL BE REMOVED AND REPLACED AS ENGINEERED FILL OR WITH LEAN CONCRETE.
- BACKFILL MATERIALS: THE ON-SITE SOILS ARE NOT SUITABLE FOR REUSE AS BACKFILL DUE TO THEIR MEDIUM POTENTIAL FOR EXPANSION (SEE NOTE #9 FOR EXCEPTION). IMPORT GRANULAR MATERIALS (SANDS, GRAVELS, OR MIXTURES OF BOTH) SHALL BE CONSIDERED FOR SELECT BACKFILL AS THE SITE. ALL BACKFILL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO BEING USED AT THE SITE. IT IS ADVISABLE TO TEST THE INSITU SOILS AND IMPORT MATERIALS TO DETERMINE THEIR SUITABILITY FOR USE AS BACKFILL. CONSULT TO A GEOTECHNICAL ENGINEER TO EVALUATE THE RESULTS OF THE TESTS AND THE IMPACT ON THE PROPOSED CONSTRUCTION MATERIALS IN CONTACT WITH THE SOILS.
- COMPACTION OF BACKFILL: IMPORT BACKFILL MATERIALS SHALL BE PLACED IN LEVEL LIFTS NOT EXCEEDING 8 INCHES IN LOOSE THICKNESS. EACH LIFT SHALL BE BROUGHT TO AT LEAST THE OPTIMUM MOISTURE CONTENT, AND COMPACTED TO AT LEAST 90 PERCENT RELATIVE COMPACTION, IN ACCORDANCE WITH ASTM D 1557, EXCEPT FOR BACKFILLS BENEATH THE CONCRETE FLOOR SLABS WHICH SHALL BE COMPACTED TO AT LEAST 95 PERCENT RELATIVE COMPACTION.
- TEMPORARY SLOPES AND UNDERBRINNING: TEMPORARY SLOPES HIGHER THAN 4 FEET SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPLICABLE CODES AND REGULATIONS. WHILE EXCAVATING ADJACENT TO EXISTING IMPROVEMENTS, CARE SHALL BE TAKEN TO ADEQUATELY SUPPORT THE EXISTING ADJACENT IMPROVEMENTS. ALL TEMPORARY SLOPES, SHORING DESIGN, AND SUPPORT OF ADJACENT STRUCTURES DURING CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHORING DESIGNER. GEOTECHNICAL WILL BE AVAILABLE TO ASSIST THE CONTRACTOR OR SHORING DESIGNER AS REQUIRED.
- TREE REMOVAL: TREES SHALL BE REMOVED OR SHALL REMAIN IN PLACE AS SHOWN ON THIS PLAN. EXISTING SOILS IN THE VICINITY OF EXISTING OAK TREES SHALL REMAIN IN PLACE EXCEPT WHERE NOTED ON PLAN. THIS PLAN HAS BEEN REVIEWED BY JENNIFER TSO, CERTIFIED ARBORIST AWE-10270A JANUARY 2, 2019.
- GRADES HIGHER THAN EXISTING SHALL BE ADDED. EXISTING SOILS AT THESE LOCATIONS SHALL REMAIN BENEATH THE ADDED SOILS. BENCHED WHERE NECESSARY.
- WHERE EXISTING TREES WITH SUBSTANTIAL ROOT STRUCTURE DO NOT OCCUR, EXCAVATIONS SHALL EXTEND TO AN IMAGINARY PLANE INCLINED AT 60° ABOVE HORIZONTAL FROM A POINT ONE (1) FOOT BEHIND THE BOTTOM OF THE BACK HEEL OF THE RETAINING WALL FOOTING. FILLS PLACED WITHIN THIS ZONE SHALL BE BACKFILL PER NOTE #3.
- SOME OF THE EXCAVATED SOILS MAY BE USED AS BACKFILL FOR THE UPPER 12 INCHES (AFTER THE SELECT BACKFILL).
- EXCAVATION REQUIRED BEHIND RETAINING WALLS: IN ADDITION TO THE GRADING SPECIFIED ON THIS DRAWING, THE ACTIVE ZONE BEHIND THE SPECIFIED RETAINING WALLS SHALL BE EXCAVATED AND BENCHED WHERE NECESSARY TO RECEIVE BACKFILL MATERIALS. ONCE THE RETAINING WALLS HAVE BEEN CONSTRUCTED, THE ACTIVE ZONE SHALL BE FILLED WITH BACKFILL MATERIALS SPECIFIED IN NOTE #3. THE ACTIVE ZONE INCLUDES THE ENTIRE VOLUME ABOVE AN IMAGINARY PLANE INCLINED AT 60 DEGREES ABOVE HORIZONTAL FROM A POINT ONE (1) FOOT BEHIND THE BOTTOM OF THE BACK HEEL OF THE RETAINING WALL FOOTINGS.

GRADING PLAN LEGEND:

- BOF BOTTOM OF FOOTING
 - (E) EXISTING
 - FIN. EL. PROPOSED FINISH ELEVATION
 - S.O.G. SLAB ON GRADE
 - TOC TOP OF CONCRETE
 - TOW TOP OF GARDEN WALL OR FOUNDATION WALL U.O.N. UNLESS OTHERWISE NOTED
- EXISTING GRADE TO REMAIN IN PLACE
- PROPOSED RETAINING WALL / GARDEN WALL
- 61.45' GRADE ELEVATION U.O.N.
- 2:1 SLOPE
- PROPOSED SLOPE OF GRADE (H/V)
- 6-FOOT HIGH TEMPORARY FENCE FOR TREE PROTECTION

