



**GRADING NOTES**

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND DETAILS OF THE SANTA BARBARA COUNTY DEPARTMENT OF TRANSPORTATION AND THE CALIFORNIA DEPARTMENT OF TRANSPORTATION, STD. SPECS. JULY 1984, AND THE PERFORMANCE SPECIFICATIONS CONTAINED IN THE RFP FOR FACULTY HOUSING PROJECT, UCSB, DATED JULY 17, 1984.
- ALL GRADING SHALL BE DONE IN CONFORMANCE WITH SANTA BARBARA COUNTY ORDINANCE NO. 1795, SECTIONS 22 THROUGH 26. A S.B. COUNTY GRADING PERMIT NOT REQUIRED.
- IN ADDITION TO THESE NOTES AND THE COUNTY GRADING ORDINANCE, ALL GRADING SHALL CONFORM TO REQUIREMENTS AND RECOMMENDATIONS OF THE FOUNDATION EXPLORATION REPORT PREPARED BY PACIFIC MATERIALS LABORATORY, INC., DATED MAY 30, 1984 (FILE NO. 84-6273-2).
- ALL ELEVATIONS INDICATED ON THE PLAN ARE FINISH ELEVATIONS.
- CONTRACTOR SHALL GRADE SITE, WITHIN PROPERTY BOUNDARIES, TO SUBGRADE. SUBGRADE SHALL BE:
  - 1.00' BELOW FINISH GRADE ELEVATIONS IN STREETS, MOTORCOURTS, AND PARKING AREAS, UNLESS OTHERWISE SHOWN ON THE PLANS.
  - 0.42' BELOW FINISH FLOOR ELEVATIONS IN BUILDING AREAS, AND ALL MOTOR COURTS.
  - ALL OTHER AREAS SHALL BE GRADED TO FINISH ELEVATIONS UNLESS OTHERWISE SHOWN ON THE PLANS. CONTRACTOR SHALL VERIFY FINISH GRADE ELEVATIONS WITH ARCHITECT PRIOR TO GRADING.
- ALL AREAS TO BE GRADED SHALL BE CLEARED OF SURFACE VEGETATION INCLUDING ROOTS AND ROOT STRUCTURES, AND ANY OTHER MANMADE STRUCTURES AND UNSUITABLE MATERIALS. ALL SUCH MATERIALS SHALL BE REMOVED FROM THE PROJECT SITE AND TRANSPORTED TO A SUITABLE DISPOSAL AREA.
- PRIOR TO FILL PLACEMENT BENEATH THE PROPOSED BUILDING SITES AND FOR A MINIMUM DISTANCE OF 10 FEET BEYOND THEIR EXTERIOR PERIMETER, THE TOP 24 INCHES OF EXISTING SURFACE SOILS SHALL BE REMOVED, AFTER WHICH THE TOP 8 INCHES OF THE EXPOSED GROUND SURFACE SHALL THEN BE SCARIFIED, MOISTENED OR DRIED TO NEAR OPTIMUM MOISTURE CONTENT, AND RECOMPACTED TO A MINIMUM OF 90 PERCENT RELATIVE COMPACTION.
- IN AREAS GREATER THAN 10 FEET BEYOND THE EXTERIOR PERIMETER OF THE STRUCTURES WHERE ADDITIONAL FILL MATERIAL IS TO BE PLACED, ONLY THE TOP 12 INCHES OF EXISTING SURFACE SOILS NEED TO BE REMOVED OR OTHERWISE RECOMPACTED PRIOR TO FILL PLACEMENT.
- FILL MATERIAL SHALL BE SPREAD IN LIFTS OF APPROXIMATELY 6 INCHES, MOISTENED OR DRIED TO NEAR OPTIMUM MOISTURE CONTENT, AND RECOMPACTED TO A MINIMUM OF 90 PERCENT RELATIVE COMPACTION.
- THE COMPACTION STANDARDS SHALL BE THE ASTM D-1557-78 METHOD OF COMPACTION, MODIFIED TO THREE LAYERS.
- ALL FILL MATERIAL SHALL BE SELECTED CLEAN EARTH FROM EXCAVATIONS WITHIN ON SITE BORROW AREA OR OFFSITE BORROW AREA AS APPROVED BY THE SOILS ENGINEER.
- CUT AND FILL SLOPES SHALL NOT EXCEED AN ANGLE OF 2:1 HORIZONTAL TO ONE VERTICAL.
- ALL GRADING TO BE DONE UNDER THE DIRECTION OF A SOILS ENGINEER.
- THE TOP 9" OF SOIL UNDERLYING PAVED AREAS SHALL BE RECOMPACTED TO 95 PERCENT RELATIVE COMPACTION PRIOR TO PLACING BASE MATERIAL.
- POSITIVE DRAINAGE SHALL BE PROVIDED AWAY FROM THE STRUCTURES AND TO THE STREETS OR TO APPROPRIATE DRAINAGE STRUCTURES.
- ENCROACHMENT PERMIT SHALL BE OBTAINED FROM SANTA BARBARA COUNTY D.O.T. BEFORE COMMENCING ANY WORK WITHIN PUBLIC RIGHT-OF-WAY. CONTRACTOR SHALL OBTAIN ALL PERMITS AND CONSTRUCTION EASEMENTS REQUIRED TO CONSTRUCT WORK.
- PLANTING OF EXPOSED EARTH SURFACES WILL BE DONE UNDER SEPARATE CONTRACT IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLAN.
- ALL TREES NOT DESIGNATED TO BE REMOVED SHALL BE PROTECTED FROM DAMAGE.
- STORM DRAINAGE SHALL BE AGR. CLASS 20000 D.O.T. RAIN-GUTTER. ALL THE CATCH BASINS SHALL BE 24" X 24" PRECAST BROOKS 2424 WITH PARKWAY GRATE AND CONCRETE BASE. STORM DRAINAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH CALIF. DEPT. OF TRANSPORTATION SPECIFICATIONS. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICE (800) 422-4133 PRIOR TO COMMENCING WORK. SEE UTILITY PLAN FOR KNOWN LOCATIONS OF EXISTING UTILITIES.
- UTILITY SERVICE TO THE DEVEREUX SCHOOL, INCLUDING SEWER, WATER, TELEPHONE, ELECTRICITY, AND GAS SHALL NOT BE INTERRUPTED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING AND COORDINATING HIS WORK WITH APPLICABLE UTILITY COMPANIES TO ASSURE UNINTERRUPTED SERVICE TO DEVEREUX SCHOOL.
- ROUGH GRADING MUST BE PHASED TO ACCOMMODATE UTILITY RELOCATION. THE FIRST PHASE SHALL BE SUFFICIENT TO PROVIDE ROUGH GRADE IN THE AREAS WHERE UTILITIES ARE TO BE RELOCATED. UPON RELOCATION OF SAID UTILITIES, THE CONTRACTOR SHALL COMPLETE THE GRADING.
- FOR COMPLETE WALKWAY PLANS, SEE LANDSCAPE AND ARCHITECTURAL PLANS. ONLY PARTIAL WALKWAYS ARE SHOWN ON THIS GRADING & DRAINAGE PLAN.

**ESTIMATED EARTHWORK QUANTITIES**

EXCAVATION - 29,200 C.Y. FILL - 14,200 C.Y.

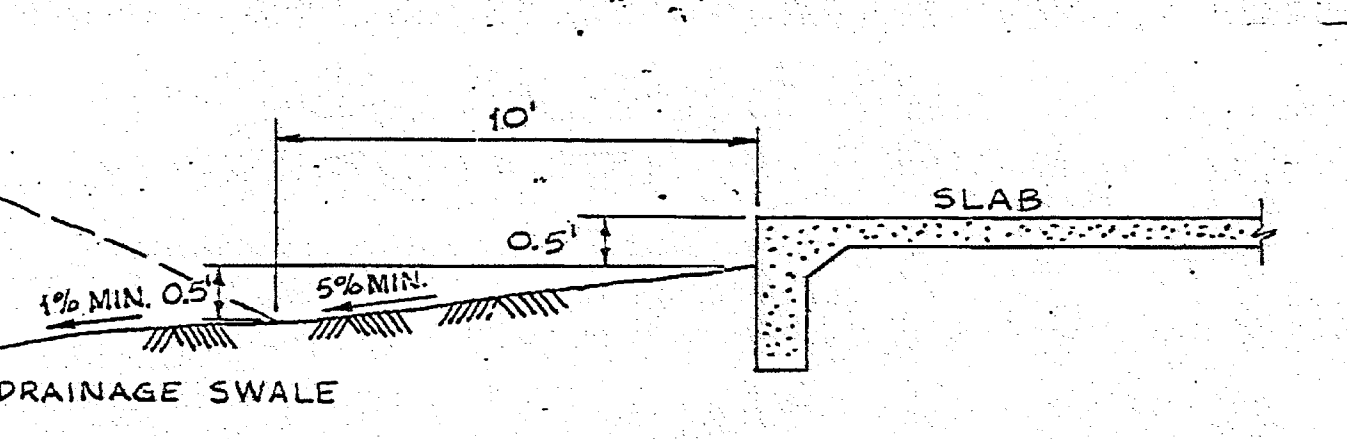
THE ABOVE EXCAVATION AND FILL QUANTITIES ARE CROSS-SECTIONAL VOLUMES CALCULATED FROM THE EXISTING GROUND SURFACE AS REPRESENTED BY THE CONTOURS ON THE PLAN TO SUBGRADE. IT IS ASSUMED THAT APPROXIMATELY 0.5 FEET OF GRADE WILL BE LOST OVER THE ENTIRE SITE DUE TO CLEARING, GRUBBING AND RECOMPACTING OF LOOSE SURFACE SOILS. ALSO THE REMAINING MASS CUTS ARE ESTIMATED TO SHRINK 20%.

OVEREXCAVATION, AS REQUIRED IN THE SOILS REPORT (884-6271-2) AND NOTES 7 AND 9, IS NOT INCLUDED IN THE ABOVE ESTIMATED EARTHWORK QUANTITIES. THIS REQUIRED OVER-EXCAVATION SHALL BE INCLUDED IN THE CONTRACTOR'S BID FOR NORMAL EXCAVATION.

**INITIAL BENCHMARK:**  
CROSS ON NORTHERLY SIDE OF CONCRETE CIRCLE OF A FLAG POLE AT SOUTHERLY END OF 3' WIDE CONCRETE WALK AT ISLA VISTA ELEMENTARY SCHOOL, ELEV. = 59.28 PER S.B. CO. D.O.T. INDEX NO. 100681.

**LOCAL BENCHMARK:**  
CHISELED SQUARE ON TOP OF CURB AT NLY. SITE FORTUNA AND ELY. EDGE OF DRAIN OPENING, EL. = 33.84.

scale	1"=40'	date	2-4-85
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TYPICAL BUILDING SLAB GRADING N.T.S.

- 0-18-80 R.N.S. REVISE GRADES @ POOL & PLAY AREAS
- 4-25-80 R.N.S. REVISE ROAD GRADES AND ENTRANCE ROAD ALIGNMENT
- 12-9-85 CUBS/D.G. LOCATION IN CURVE C/D & REVISED
- 8-12-85 ADDS MTR CRT. WALKWAY GRADES AND REVISED DRAIN. PAD SUBGRADE 0.42' BELOW FINISH GRADE, AND DET. 7'
- 6-2-85 D.G. REVISED PARKING LOTS, CURBS & FIRE ACCESS
- 4-19-85 R.N.S. REVISE FINAL GRADING OF INTERIOR AREA
- 2-10-85 R.N.S. REVISE NOTES 1,2,3,5 & 19, EXTEND STORM DRAIN, MODIF. SUB-GRADE ELEV. IN MOTOR COURTS MODIF. DET. 7' ARE MODIF. DIA. & SLOPE OF STORM DRAINS.
- 2-8-85 D.G. REVISE NOTES 16, 19 & 20, EARTHWORK QUANTITIES, ROCK ENERGY DISSIPATOR & ROAD SECTION (SUBGRADE). ADD KNOWN EX. UTILITIES, ADD 1" GUTTERS (8 PLACES), ADD DET. INLET (1 PLACE), ADD TYP. FLEX. PLAN ELEV. & REVISE ENTRY ROAD.

no. [ ] date [ ] by [ ]  
revision [ ]

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project title

U.C.S.B.

PROJ. NO. 986320  
sheet title

**GRADING AND DRAINAGE PLAN**

scale	1"=40'	date	2-4-85
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