

GENERAL NOTES:

1. ALL WORK DETAILED ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION," (LATEST EDITION AND SUPPLEMENTS), THE UNIFORM BUILDING CODE (FOR EXCAVATION AND GRADING), AMERICAN PUBLIC WORKS ASSOCIATION (APWA) STANDARD PLANS, CALIFORNIA BUILDING CODE (CBC) (LATEST EDITION).
2. ALL GEOTECHNICAL RECOMMENDATIONS IMPOSED BY THE CONSULTANT OR CONTAINED IN THE CONSULTANT GEOTECHNICAL REPORT ARE TO BE COMPLIED WITH AND ARE HEREBY MADE AN INTEGRAL PART OF THE GRADING SPECIFICATIONS AND NOTES.
- GEOTECHNICAL REPORT DATED: SEPTEMBER 9, 2014
REPORT NUMBER: 208866002
PREPARED BY: NINYO & MOORE GEOTECHNICAL & ENVIRONMENTAL SCIENCES CONSULTANTS
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4. IF AT ANY TIME DURING THE GRADING AND EXCAVATION OPERATIONS, UNFAVORABLE SOILS CONDITIONS ARE ENCOUNTERED, THE SOILS ENGINEER SHALL BE NOTIFIED AND THE WORK SHALL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED.
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9. NO FILL TO BE PLACED, UNTIL THE DSA GRADING INSPECTOR HAS INSPECTED AND APPROVED THE BOTTOM EXCAVATION PER GEOTECHNICAL NOTES HEREON.
10. ALL CONCENTRATED DRAINAGE MUST BE CONDUCTED TO THE STREET IN APPROVED NON-EROSIVE DEVICES OR TO EXISTING STORM DRAIN SYSTEM.
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PAVING NOTES

1. A PRE-PAVING MEETING SHALL BE SCHEDULED 48 HOURS PRIOR TO START OF THE SUB-GRADE PREPARATION FOR THE PAVING WITH THE FOLLOWING PEOPLE PRESENT: OWNER, PAVING CONTRACTORS, DESIGN CIVIL ENGINEER, SOILS ENGINEER, CITY BUILDING INSPECTOR OR THEIR REPRESENTATIVES. REQUIRED FIELD INSPECTIONS WILL BE OUTLINED AT THE MEETING.
2. PAVEMENT SECTIONS INDICATED ON THESE PLANS ARE BASED ON RECOMMENDATIONS PROVIDED BY THE SOILS REPORT. THE FINAL PAVEMENT SECTIONS ARE SUBJECT TO CHANGE BY THE GEOTECHNICAL ENGINEER, BASED ON THE ACTUAL FIELD MEASURED "K" VALUES (SOIL RESISTANCE) OF THE COMPACTED SUBGRADES, AND ASSUMED TRAFFIC INDICES.
3. CLASS 2 AGGREGATE BASE SHOULD CONFORM TO SECTION 26--1.02A OF THE STANDARD SPECIFICATIONS FOR THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS).
4. THE AGGREGATE BASE SECTION SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY. MAXIMUM AND FIELD DENSITY TO BE DETERMINED IN ACCORDANCE WITH ASTM D1557-02 MODIFIED.
5. ADJACENT PAVEMENTS SLAB SECTIONS SHALL HAVE A TRAPEZOIDAL KEYED CONNECTION JOINT. AS AN ALTERNATIVE TO THE KEYED JOINT, DOWEL BETWEEN CONSTRUCTION JOINTS CAN BE USED. DOWELS SHALL CONSIST OF SMOOTH, #4 REINFORCING STEEL BAR, 18 INCHES LONG, EMBEDDED A MINIMUM OF NINE INCHES INTO THE SLAB ON EITHER SIDE OF THE CONSTRUCTION JOINT.
6. THE PCC PAVEMENT SHALL BE PLACED OVER SUBGRADE SOIL THAT IS COMPACTED TO A DRY DENSITY OF AT LEAST 90 PERCENT OF THE LABORATORY MAXIMUM DRY DENSITY AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF APPROXIMATELY 3,200 PSI.

NOTICE TO CONTRACTORS:

1. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL JOIN CONDITIONS FOR GRADING AND DRAINAGE WORK. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED BY THE ENGINEER.
2. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UNDERGROUND UTILITY INFORMATION SHOWN ON THESE PLANS HAVE BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORD DATA. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
3. THE CONTRACTOR FURTHER SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT
4. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS, THE SOILS AND/OR GEOLOGY REPORTS, AND THE SITE CONDITIONS PRIOR TO COMMENCING WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR THE ENGINEER, PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND NOT TO THE EXPENSE OF THE OWNER OR ENGINEER.
6. ALL CHANGES TO THE CONSTRUCTION DOCUMENTS FOR THIS PROJECT SHALL BE DONE IN WRITING AND APPROVED BY THE ENGINEER OF RECORD. THE ENGINEER SHALL NOT BE RESPONSIBLE, OR LIABLE FOR UNAUTHORIZED CHANGES OR USES OF THE CONSTRUCTION DOCUMENTS.
7. SHOULD CONFLICTING INFORMATION BE FOUND ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE PROJECT ARCHITECT OR ENGINEER BEFORE PROCEEDING WITH THE WORK IN QUESTION.
8. THE CONTRACTOR SHALL OBTAIN AN OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.) PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE 5 FEET OR DEEPER WHERE A PERSON IS REQUIRED TO DESCEND.
9. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
10. NOISE-GENERATING EQUIPMENT OPERATED AT THE PROJECT SITE SHALL BE EQUIPPED WITH EFFECTIVE NOISE CONTROL DEVICES (ie., MUFFLERS, LAGGING, AND/OR MOTOR ENCLOSURES). ALL EQUIPMENT SHALL BE PROPERLY MAINTAINED TO ASSURE THAT NO ADDITIONAL NOISE, DUE TO WORN OR IMPROPERLY MAINTAINED PARTS, WOULD BE GENERATED.
11. TRAFFIC CONTROL AND TRUCK ROUTE PLANS SHALL BE REVIEWED AND APPROVED BY THE PUBLIC WORKS DEPARTMENT BEFORE THEIR IMPLEMENTATION. LARGE CONSTRUCTION VEHICLES SHALL NOT BE PERMITTED TO TRAVEL NARROW STREETS AS DETERMINED BY THE PUBLIC WORKS DEPARTMENT. DISRUPTION CAUSED BY CONSTRUCTION WORK ALONG ROADWAYS AND BY MOVEMENT OF CONSTRUCTION VEHICLES SHALL BE MINIMIZED BY PROPER USE OF TRAFFIC CONTROL EQUIPMENT AND FLAGMAN.
12. A HAUL ROUTE PERMIT SHALL BE REQUIRED FOR ANY LARGE CONSTRUCTION RELATED VEHICLE (ie., DIRT HAULING VEHICLE).
13. NO CONSTRUCTION MATERIAL SHALL BE STAGED OR STORED WITHIN THE PUBLIC RIGHT-OF-WAY.
14. ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY REQUIRES AN APPROVED ENCROACHMENT PERMIT.
15. PUBLIC WORKS DEPARTMENT ENCROACHMENT PERMIT INSPECTION IS REQUIRED BEFORE THE BUILDING DEPARTMENT FINAL PERMIT CAN BE ISSUED. AT THE TIME OF PUBLIC WORKS DEPARTMENT INSPECTION, IF ANY OF THE EXISTING PUBLIC IMPROVEMENTS SURROUNDING THE SITE IS DAMAGED, NEW CONCRETE SIDEWALK, CURB AND GUTTER AND ALLEY/STREET PAVEMENT WILL BE REQUIRED AND 100% PAID BY THE CONTRACTOR AND DETERMINATION OF THE EXTENT OF THE REPAIR WORK SHALL BE MADE AT THE DISCRETION OF THE PUBLIC WORKS INSPECTOR.

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1. ALL WORK DETAILED ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION," (LATEST EDITION AND SUPPLEMENTS), THE UNIFORM BUILDING CODE (FOR EXCAVATION AND GRADING), AMERICAN PUBLIC WORKS ASSOCIATION (APWA) STANDARD PLANS, CALIFORNIA BUILDING CODE (CBC) (LATEST EDITION).
2. ALL GEOTECHNICAL RECOMMENDATIONS IMPOSED BY THE CONSULTANT OR CONTAINED IN THE CONSULTANT GEOTECHNICAL REPORT ARE TO BE COMPLIED WITH AND ARE HEREBY MADE AN INTEGRAL PART OF THE GRADING SPECIFICATIONS AND NOTES.
- GEOTECHNICAL REPORT DATED: SEPTEMBER 9, 2014
REPORT NUMBER: 208866002
PREPARED BY: NINYO & MOORE GEOTECHNICAL & ENVIRONMENTAL SCIENCES CONSULTANTS
3. PRIOR TO POURING OF CONCRETE, THE GEOTECHNICAL ENGINEER SHALL INSPECT AND APPROVE THE FOOTING EXCAVATIONS AND LEAVE A CERTIFICATE ON THE SITE FOR THE BUILDING INSPECTOR AND THE CONTRACTOR, NO CONCRETE SHALL BE POURED UNTIL THE BUILDING INSPECTOR HAS ALSO INSPECTED AND APPROVED THE FOOTING EXCAVATIONS.
4. IF AT ANY TIME DURING THE GRADING AND EXCAVATION OPERATIONS, UNFAVORABLE SOILS CONDITIONS ARE ENCOUNTERED, THE SOILS ENGINEER SHALL BE NOTIFIED AND THE WORK SHALL STOP UNTIL APPROVED CORRECTIVE MEASURES ARE OBTAINED.
5. ALL GRADES AND CONTOURS INDICATED ON THE PLANS ARE TO FINISHED SURFACE, AND NOT ROUGH GRADES. CONTRACTOR SHALL SUBTRACT THE STRUCTURAL THICKNESS OF PAVEMENTS AND TOP-SOIL THICKNESS IN LANDSCAPED AREAS, TO OBTAIN DESIRED ROUGH GRADES.
6. TEMPORARY EROSION CONTROL SHALL BE INSTALLED AND MAINTAINED PER APPLICABLE AGENCY REQUIREMENTS, THROUGHOUT DURATION OF CONSTRUCTION.
7. ALL GRADING SLOPES SHALL BE PLANTED AND SPRINKLERED.
8. STANDARD 12" HIGH BERM IS REQUIRED AT TOP OF ALL GRADED SLOPES.
9. NO FILL TO BE PLACED, UNTIL THE DSA GRADING INSPECTOR HAS INSPECTED AND APPROVED THE BOTTOM EXCAVATION PER GEOTECHNICAL NOTES HEREON.
10. ALL CONCENTRATED DRAINAGE MUST BE CONDUCTED TO THE STREET IN APPROVED NON-EROSIVE DEVICES OR TO EXISTING STORM DRAIN SYSTEM.
11. THIS PLAN IS FOR GRADING PURPOSES ONLY AND DOES NOT CONSTITUTE APPROVAL OF BUILDINGS.
12. ALL DEBRIS AND FOREIGN MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT APPROVED DISPOSAL SITES. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FOR THE TRANSPORTATION OF MATERIAL TO AND FROM THE SITE.
13. EXISTING TOPOGRAPHY SHOWN HEREON WAS TAKEN FROM A SURVEY DATED NOVEMBER 12, 2016 BY WESTERN STATES SURVEYING, INC.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR THE HIRING OF A LICENSED LAND SURVEYOR TO PERFORM STAKING FOR IMPROVEMENTS SHOWN ON THESE PLANS
15. STRAIGHT GRADE SHALL BE MAINTAINED BETWEEN CONTOUR LINES AND SPOT ELEVATIONS UNLESS OTHERWISE SHOWN ON THE PLANS.
16. DIMENSIONS TO PIPELINES ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
17. ALL DIMENSIONS ARE IN FEET OR DECIMALS THEREOF.
18. ALL CURB DIMENSIONS AND RADII ARE TO BOTTOM OF CURB FACE.
19. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800--227-2600) PRIOR TO ANY EXCAVATION.
20. CONTRACTOR SHALL COORDINATE REMOVAL OR RELOCATION OF ANY PUBLIC UTILITY LINES WITH THEIR RESPECTIVE OWNERS. SEPARATE PERMITS MAY BE REQUIRED.
21. THE CONTRACTOR SHALL REPLACE ALL EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION AT HIS OWN EXPENSE, AND TO THE SATISFACTION OF THE OWNER, MATCH EXISTING MATERIALS, SURFACE TREATMENT, AND COLORS. SAME SHALL APPLY TO PERMANENT UTILITY TRENCH RESURFACING.
22. STORM DRAINAGE SYSTEMS SHOWN ON THESE PLANS HAVE BEEN DESIGNED FOR THE FINAL SITE CONDITION AT COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE SITE, DURING INTERIM CONDITIONS OF CONSTRUCTION.
23. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL.
24. ANY TEMPORARY STOCKPILING OF EXCESS MATERIAL ON SITE SHALL BE APPROVED BY THE OWNER AND THE CONSTRUCTION MANAGER, INCLUDING PROTECTION AND EROSION CONTROL, PRIOR TO EXCAVATION.
25. REGISTERED DEPUTY GRADING INSPECTOR IS REQUIRED ON GRADING AND FOUNDATION EARTHWORK.
26. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE DURING THE CONSTRUCTION PERIOD.
27. CONTRACTOR ARE RESPONSIBLE FOR LOCATING AND PROTECTING UTILITIES.
28. APPROVED SHORING, DRAINAGE PROVISIONS AND PROTECTIVE MEASURES MUST BE USED TO PROTECT ADJOINING PROPERTIES DURING THE GRADING OPERATION.
29. NO PAINT, PLASTER, CEMENT, SOIL, MORTAR OR OTHER RESIDUE SHALL BE ALLOWED TO ENTER STREETS, CURBS, GUTTERS OR STORM DRAINS. ALL MATERIAL AND WASTE SHALL BE REMOVED FROM THE SITE.

GENERAL UTILITY NOTES:

1. CONTRACTOR TO PROTECT IN PLACE OR ADJUST WHERE NECESSARY ALL EXIST, AND UTILITY LINES AND UNDERGROUND STRUCTURES, WHETHER SHOWN OR NOT SHOWN ON THESE PLANS, THAT LAY WITHIN THE LIMITS OF THE NEW CONSTRUCTION, AND ARE NOT SPECIFICALLY MARKED TO BE REMOVED OR ABANDONED.
2. THE CONTRACTORS' ATTENTION IS DIRECTED TO SECTION 7--10.4.1 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AND THE AMENDMENTS IN REGARD TO SAFETY ORDERS.
3. INSTALLATION OF PIPES IN TRENCHES SHALL BE IN ACCORDANCE WITH SECTION 306 OF THE STANDARD SPECIFICATIONS, AND APPLICABLE APWA AND SANTA ANA STANDARD PLANS.
4. PIPE BEDDING SHALL BE CLEAN SAND AS DEFINED IN THE SOILS REPORT.
5. THE CONTRACTOR MAY VARY THE GRADE AND/OR ALIGNMENT OF THE WATER AND GAS LINES IF FIELD CONDITIONS WARRANT WITH APPROVAL OF THE ENGINEER.
6. ALL UTILITY TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS FROM BOTTOM TO TOP WITH A DOUBLE ROW OF SANDBAGS PRIOR TO BACKFILL. SEWER TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS WITH A DOUBLE ROW OF SANDBAGS EXTENDING DOWNWARD, TWO SANDBAGS FROM THE GRADED SURFACE OF THE STREET. SANDBAGS ARE TO BE PLACED WITH ALTERNATE HEADER AND STRETCHER COURSES. PRESCRIBED INTERVALS BETWEEN SANDBAG BLOCKINGS, SHALL DEPEND ON THE SLOPE OF THE GROUND SURFACE, BUT SHALL NOT EXCEED THE FOLLOWING:
- | GRADE OF THE STREET | INTERVAL AS REQUIRED |
|---------------------|----------------------|
| LESS THAN 2% | 100 FEET |
| 2% TO 4% | 50 FEET |
| 4% TO 10% | 25 FEET |
| OVER 10% | 25 FEET |
7. THE CONTRACTOR SHALL PROVIDE THE DESIGN OF, OBTAIN THE REQUIRED PERMITS FOR, AND FURNISH AND INSTALL ALL THE TEMPORARY SHORING, UNDERPINNING AND BRACING REQUIRED TO SAFELY EXECUTE THE WORK AND PROTECT EXISTING IMPROVEMENTS.
8. CONTRACTOR SHALL EXPOSE EXISTING UTILITY LINES AT THE DOWNSTREAM CONNECTION LOCATIONS FOR VERIFICATION OF JOIN ELEVATIONS. DISCREPANCIES WITH THE PLANS SHALL BE REPORTED TO THE ENGINEER, PRIOR TO CONTINUING WITH CONSTRUCTION.
9. FLEXIBLE COMPRESSIBLE JOINTS SHALL BE INSTALLED ON SANITARY SEWER AND STORM DRAIN PIPES WITHIN THREE FEET OF EACH MANHOLE.
10. SPECIAL PROVISIONS SUCH AS FLEXIBLE OR SWIVEL JOINTS SHALL BE MADE FOR BURIED UTILITIES TO ALLOW FOR DIFFERENTIAL VERTICAL DISPLACEMENT.
11. CONSTRUCTION INSPECTION SHALL BE DONE FOR SUBBEDDING, BEDDING, PIPE LAYING, PIPE TESTING, AND MANHOLE CONSTRUCTION, TRENCHING, CONSOLIDATION OF BACKFILL, PAVING, RESURFACING.
12. NO CONCRETE SHALL BE PLACED UNTIL THE FORMS AND REINFORCING STEEL HAVE BEEN PLACED, INSPECTED AND APPROVED BY THE INSPECTOR.
13. CONCRETE FOR UTILITY STRUCTURES SHALL BE PORTLAND CEMENT CONCRETE WITH AN ULTIMATE 28 DAY COMPRESSIVE STRENGTH OF 3250 P.S.I. UNLESS OTHERWISE NOTED.
14. FINAL MANHOLE AND RIM CLEANOUT ELEVATIONS SHALL BE ADJUSTED TO MEET FINAL GRADES.
15. CONTRACTOR SHALL COORDINATE REMOVAL OR RELOCATION OF ANY PUBLIC UTILITY LINES WITH THEIR RESPECTIVE OWNERS. SEPARATE PERMITS MAY BE REQUIRED.

GEOTECHNICAL NOTES:

- A. PARTICLES LARGER THAN 6 INCHES IN DIAMETER SHALL NOT BE ALLOWED IN THE BACKFILL MATERIAL.
- B. ALL AREAS TO RECEIVE NEW FILL SHALL BE SCARIFIED TO A DEPTH OF 6 INCHES AND COMPACTED TO 95 PERCENT RELATIVE COMPACTION.
- C. WITHIN THE AT-GRADE PORTION OF THE PROPOSED STRUCTURE, ALL FILL MATERIALS AND UPPER ALLUVIAL SOILS SHALL BE REMOVED TO A MINIMUM DEPTH OF 3 FEET BELOW THE BOTTOM OF ALL FOUNDATIONS, OR 5 FEET BELOW THE PROPOSED SUBGRADE, WHICHEVER IS DEEPER. THE REMOVAL SHALL EXTEND AT LEAST 3 FEET BEYOND THE EDGE OF FOUNDATIONS, OR FOR A DISTANCE EQUAL TO THE DEPTH OF FILL BELOW THE FOUNDATIONS, WHICHEVER IS GREATER. THE EXPOSED GRADE SHALL THEN BE SCARIFIED TO A DEPTH OF SIX INCHES, MOISTENED TO APPROXIMATELY 3% ABOVE OPTIMUM MOISTURE CONTENT, AND RECOMPACTED IN EXCESS OF THE MINIMUM REQUIRED COMPARATIVE DENSITY.
- D. ANY FILL MATERIALS UNDERLYING EXISTING POOLS (IF ANY) SHALL BE REMOVED UNTIL NATIVE SOILS ARE EXPOSED. THE EXPOSED NATIVE SOILS SHALL BE SCARIFIED TO A DEPTH OF SIX INCHES, MOISTENED TO OPTIMUM MOISTURE CONTENT, AND RECOMPACTED IN EXCESS OF THE MINIMUM REQUIRED COMPARATIVE DENSITY.
- E. FLOOR SLABS-ON-GRADE SHALL BE DESIGNED PER THE RECOMMENDATIONS OF THE REFERENCED HEREIN GEOTECHNICAL REPORT. THE DESIGN OF THE SLAB MAY BE ALTERED ONLY BY THE CONSULTING STRUCTURAL ENGINEER.
- F. FILL SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 90% MAX DRY DENSITY AS NOTED IN THE SOILS REPORT.
- G. ON-SITE OR IMPORTED GRANULAR SOILS MAY BE USED AS BACKFILL MATERIAL PER THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT. ALL BACKFILL SHOULD BE PLACED IN THIN HORIZONTAL LIFTS, WETTED OR AIR-DRIED AS NECESSARY TO ACHIEVE NEAR OPTIMUM MOISTURE CONDITIONS, AND COMPACTED IN PLACE TO A MINIMUM RELATIVE COMPACTION OF 90 PERCENT OF ITS MAXIMUM DRY DENSITY. FLOODING OR WETTING OF BACKFILL SOILS IS NOT PERMITTED.
- H. BACKFILL FOR ALL UTILITY TRENCHES UNDER SLABS AND WITHIN DRIVEWAYS AND PARKING AREAS SHALL BE COMPACTED TO MINIMUM RELATIVE COMPACTION OF 95 PERCENT OF ITS MAXIMUM DRY DENSITY BY MECHANICAL METHODS. WHERE UTILITY TRENCHES ARE PARALLEL TO THE FOOTINGS, THE BOTTOM OF THE TRENCH SHOULD BE LOCATED ABOVE A PLANE WITH A SLOPE OF 1:1, PROJECTED DOWNWARD FROM THE ADJACENT BOTTOM EDGE OF THE FOOTING.
- I. ALL REQUIRED FILLS SHOULD BE PLACED IN HORIZONTAL LIFTS NOT MORE THAN 6" TO 8" IN THICKNESS & COMPACTED TO AT LEAST 90% OF MAXIMUM DRY DENSITY.
- J. NO FILL TO BE PLACED, UNTIL THE INSPECTOR OF RECORD HAS INSPECTED AND APPROVED THE BOTTOM EXCAVATION.
- K. INSPECTION & TESTING; TO INSURE COMPLIANCE THE RECOMMENDATIONS OF THE HEREIN REFERENCED GEOTECHNICAL REPORT, THE FOLLOWING OPERATIONS SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER:
- A. TEMPORARY EXCAVATIONS
 - B. REMOVAL OF UNSUITABLE SOILS
 - C. BACKFILL PLACEMENT AND COMPACTION
 - D. FOUNDATION EXCAVATIONS.
- L. THE GEOTECHNICAL ENGINEER SHALL PERFORM PERIODIC INSPECTIONS AND SUBMIT A COMPLETE REPORT AND MAP UPON COMPLETION OF THE ROUGH GRADING OPERATIONS.
- M. THE FINAL COMPACTION REPORT AND APPROVAL FROM THE GEOTECHNICAL ENGINEER SHALL CONTAIN THE TYPE OF FIELD TESTING PERFORMED. THE METHOD OF OBTAINING THE IN-PLACE DENSITY, WHETHER SAND CONE, NUCLEAR GAGE OR DRIVE RING SHALL BE SO NOTED FOR EACH TEST. SUFFICIENT MAXIMUM DENSITY DETERMINATIONS SHALL BE PERFORMED TO VERIFY THE ACCURACY OF THE MAXIMUM DENSITY CURVES USED BY THE FIELD TECHNICIAN.
- N. NOTIFICATION OF NONCOMPLIANCE: IF, IN THE COURSE OF FULFILLING THEIR RESPONSIBILITY, THE CIVIL ENGINEER, THE GEOTECHNICAL ENGINEER, THE ENGINEERING GEOLOGIST OR THE TESTING AGENCY FINDS THAT THE WORK IS NOT BEING DONE IN CONFORMANCE WITH THE APPROVED GRADING PLANS, THE DISCREPANCIES SHALL BE REPORTED IMMEDIATELY IN WRITING TO THE PERSON IN CHARGE OF THE GRADING WORK AND TO THE OWNER REPRESENTATIVE. RECOMMENDATION FOR CORRECTIVE MEASURES, IF NECESSARY, SHALL BE SUBMITTED TO THE CONSTRUCTION MANAGER OF THE PROJECT.
- O. ALL EXISTING SEWERS, CESSPOOLS AND SEPTIC TANKS OR OTHER SEWAGE DISPOSAL FACILITIES SHALL BE ABANDONED IN COMPLIANCE WITH THE UNIFORM PLUMBING CODE AND TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER AND GRADING INSPECTOR.
- P. EXPORT SOILS MUST GO TO A LEGAL DUMP SITE OR TO A PERMITTED SITE APPROVED BY THE CITY GRADING ENGINEER.
- Q. NO GRADING SHALL BE STARTED WITHOUT FIRST NOTIFYING THE GRADING INSPECTOR. A PRE-GRADING MEETING AT THE SITE IS REQUIRED BEFORE START OF CLEARING AND GRADING WITH THE FOLLOWING PEOPLE PRESENT: OWNER, GRADING CONTRACTOR, DESIGN CIVIL ENGINEER, GEOTECHNICAL ENGINEER, ENGINEERING GEOLOGIST, CITY GRADING INSPECTORS, CONSTRUCTION MANAGER'S REPRESENTATIVE.
- R. CONTINUOUS INSPECTION BY THE SOILS ENGINEER/GEOLOGIST IS REQUIRED FOR GRADING OPERATIONS. THE CONTRACTOR SHALL NOTIFY THE GRADING INSPECTOR WHEN GRADING OPERATION IS READY FOR EACH OF THE FOLLOWING INSPECTIONS:
1. INITIAL INSPECTION. WHEN THE CONTRACTOR IS READY TO BEGIN WORK, BUT NOT LESS THAN TWO DAYS BEFORE ANY CLEARING OR GRADING IS STARTED.
 2. TOE INSPECTION. AFTER THE NATURAL GROUND OR BEDROCK IS EXPOSED AND PREPARED TO RECEIVE FILL, BUT BEFORE FILL IS PLACED.
 3. EXCAVATION INSPECTION. AFTER THE EXCAVATION IS STARTED, BUT BEFORE THE VERTICAL DEPTH OF THE EXCAVATION EXCEEDS TEN FEET.
 4. FILL INSPECTION. AFTER THE FILL PLACEMENT IS STARTED, BUT BEFORE THE VERTICAL HEIGHT OF THE FILL EXCEEDS TEN FEET.
 5. DRAINAGE DEVICE INSPECTION. AFTER PLACEMENT OF PIPE IN SUBDRAINS, BUT BEFORE ANY CONCRETE OR FILLER MATERIAL IS PLACED.
 6. ROUGH GRADING INSPECTION. WHEN ALL ROUGH GRADING HAS BEEN COMPLETED, THIS INSPECTION MAY BE CALLED FOR AT THE COMPLETION OF ROUGH GRADING WITHOUT THE INSPECTOR NECESSARILY HAVING PREVIOUSLY REVIEWED AND APPROVED THE REQUIRED REPORTS.
 7. FINAL GRADING AND IMPROVEMENT INSPECTION. WHEN ALL WORK (INCLUDING INSTALLATION OF ALL DRAINAGE STRUCTURES, OTHER PROTECTIVE DEVICES AND ALL OTHER IMPROVEMENTS WHICH INCLUDE LANDSCAPING AND IRRIGATION SYSTEMS) HAS BEEN COMPLETED AND THE AS-GRADED PLAN, PROFESSIONAL CERTIFICATIONS AND THE REQUIRED REPORTS HAVE BEEN SUBMITTED.
- S. CONTRACTOR TO NOTE THE PRESENCE OF MINOR GROUND WATER SEEPAGE AT THE SITE. CONTRACTOR SHALL OBTAIN NECESSARY Dewatering PERMITS WHEN REQUIRED.

CALIFORNIA CODE OF REGULATIONS:

APPLICABLE CODES AS OF JANUARY 1, 2020
2019 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, CBCSC
2019 CALIFORNIA BUILDING CODE (CBC), PART 2, CBCSC
(2018 IBC AND CALIFORNIA AMENDMENTS)
2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, CBCSC
(2018 UNIFORM PLUMBING CODE AND CALIFORNIA AMENDMENTS)
2019 CALIFORNIA FIRE CODE, PART 9, CBCSC
(2018 INTERNATIONAL FIRE CODE AND CALIFORNIA AMENDMENTS)

LIST OF FEDERAL CODES AND STANDARDS

AMERICANS WITH DISAB