GENERAL NOTES:

1. ALL IMPROVEMENTS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE FOLLOWING: CITY OF STOCKTON STANDARD SPECIFICATIONS AND PLANS ADOPTED NOVEMBER 25, 2003, AND ALL AMENDMENTS THERETO TO DATE, CALIFORNIA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (CALTRANS) LATEST EDITION, WHERE APPLICABLE, WHERE THERE IS A CONFLICT BETWEEN THE PLANS AND THE CITY'S STANDARD SPECIFICATIONS AND PLANS, THE CITY OF STOCKTON'S STANDARD SPECIFICATIONS AND PLANS SHALL PREVAIL. ALL WORK SHALL BE UNDER THE INSPECTION OF THE CITY OF STOCKTON.

2. PRIOR TO THE SCHEDULING OF A PRE-CONSTRUCTION MEETING OR THE ISSUANCE OF AN ENCROACHMENT PERMIT, THE DEVELOPER OR CONTRACTOR SHALL OBTAIN A GRADING PERMIT FROM THE CITY OF STOCKTON'S COMMUNITY DEVELOPMENT DEPARTMENT, BUILDING DIVISION.

3. THE CONTRACTOR SHALL CONTACT JASON ENDER (209) 937-8381 OF THE CITY OF STOCKTON FOR A PRE-CONSTRUCTION CONFERENCE A MINIMUM OF SEVENTY TWO (72) HOURS PRIOR TO THE COMMENCEMENT OF WORK.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTIONS AND COMPLETION OF THE PROJECT, AND SHALL PERFORM ALL WORK IN ACCORDANCE WITH THE REQUIREMENTS AND CONDITIONS OF ALL PERMITS AND APPROVALS APPLICABLE TO THIS PROJECT. THE CONTRACTOR SHALL ENSURE THAT THE NECESSARY RIGHT-OF-WAY, EASEMENTS, AND/OR PERMITS ARE SECURED PRIOR TO CONSTRUCTION.

5. CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT WHERE APPLICABLE FOR ANY WORK DONE WITHIN RIGHT-OF-WAY OR EASEMENTS FROM CITY OF STOCKTON. CONTRACTOR SHALL NOTIFY CITY, 24 HOURS IN ADVANCE OF COMMENCING THE WORK OR AS REQUIRED BY SAID PERMIT.

6. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER AND THE CITY ENGINEER.

7. DUST CONTROL SHALL BE PROVIDED AL ALL TIMES, AT THE CONTRACTOR'S EXPENSE, TO MINIMIZE ANY DUST NUISANCE AND SHALL BE ACCORDANCE WITH SECTION 10 OF CALTRANS STANDARD SPECIFICATIONS AND THE REQUIREMENTS OF THE CITY OF STOCKTON. CONTRACTOR SHALL OBTAIN A PERMIT FROM THE CITY OF STOCKTON MUNICIPAL UTILITIES DEPARTMENT FOR USE OF WATER FROM FIRE HYDRANTS FOR CONSTRUCTION PURPOSES. THE PERMITS SHALL BE APPROVED BY THE CITY OF STOCKTON FIRE DEPARTMENT.

8. BENCHMARKS: NO. 284
   ELEVATION: 22.06
   DATUM: CITY OF STOCKTON, CALIFORNIA, NGVD29
   DESCRIPTION: BRASS DISK MARKING C.O.S. MONUMENT STAMPED "9N-10" IN MONUMENT BOX ON EASTERLY EDGE OF PAVEMENT OF LOWER SACRAMENTO RD. APPROX. 2,770 FT. SOUTHWESTERLY OF 8-MILE RD.

   CONVERSION: NAVD88 ELEVATION = PLAN ELEVATION (NGVD29) + 2.55'

9. ACTUAL CONNECTIONS TO EXISTING WATER LINES WILL NOT BE PERMITTED PRIOR TO THE COMPLETION OF STERILIZATION AND TESTING OF NEW WATER MAINS. ALL WATER VALVES TO BE OPERATED UNDER THE DIRECTION OF THE WATER DIVISION OF THE REGULATORY AGENCY PERSONNEL ONLY.

10. THE DISCHARGE OF CHLORINATED AND DE-CHLORINATED WATER INTO THE STORM DRAIN SYSTEM IS PROHIBITED. THE DISCHARGE OF CHLORINATED AND DE-CHLORINATED WATER INTO THE SANITARY SEWER SYSTEM REQUIRES PRIOR APPROVAL FROM MUD. CONTACT RICHARD STIFFLER AT (209) 937-8740.

11. LOCATION OF SAW CUTTING AS REPRESENTED ON THESE PLANS SHALL BE DETERMINED IN THE FIELD WITH THE CITY INSPECTOR. IF THE EXISTING SECTION REQUIRES GRINDING OR OVERLYING OF AC, IT SHALL BE DETERMINED IN THE FIELD WITH THE CITY INSPECTOR.

12. CONTRACTOR SHALL INSTALL A BLUE REFLECTOR 6-INCHES FROM CENTERLINE ON FIRE HYDRANT SIDE AT ALL FIRE HYDRANT LOCATIONS PER MUTCD, CALIFORNIA SUPPLEMENT SECTION 3B.11 AND FIGURE 3B-102. CONTRACTORS SHALL PAINT FIRE HYDRANTS WITH ENAMEL SAFETY YELLOW PAINT. FIRE HYDRANT STEM BREAKAWAY MUST COINCIDE WITH BREAKAWAY SPOOL.

13. CONTRACTOR SHALL PRESERVE ALL EXISTING SURVEY MONUMENTS, PROPERTY PINS ETC., AFFECTED BY PROJECT IN ACCORDANCE WITH SECTION 8771 OF THE PROFESSIONAL LAND SURVEYORS ACT IN THE BUSINESS AND PROFESSIONS CODE OF THE STATE OF CALIFORNIA. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE. LOCATIONS OF EXISTING MONUMENTATION KNOWN TO THE ENGINEER THAT ARE WITHIN THE AREA OF PROJECT HAVE BEEN INDICATED ON THE PLANS. CONTRACTOR'S LICENSED SURVEYOR SHALL TIE DOWN EXISTING MONUMENTS AND SUBMIT THE INFORMATION TO THE ENGINEER. A NEW RECORD OF SURVEY SHALL BE FILED TO THE COUNTY'S RECORDER'S OFFICE.

14. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, ENGINEER AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

15. UNLESS OTHERWISE STATED, ALL STATIONS INDICATED ON THE IMPROVEMENT PLANS ARE REFERENCED TO THE CENTER LINE OF THE STREET. ALL STATIONS ON THE CURBS ARE PERPENDICULAR TO OR RADIALLY OPPOSITE CENTER LINE STATIONS, UNLESS OTHERWISE NOTED.

16. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL EXISTING FACILITIES.

17. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY IN ORDINANCE WITH THE CURRENT ISSUE OF "MANUAL OF TRAFFIC CONTROLS WARNING SIGNS, LIGHTS AND DEVICES FOR USE IN PERFORMANCE OF WORK UPON HIGHWAYS" PUBLISHED BY THE STATE OF CALIFORNIA BUSINESS AND TRANSPORTATION AGENCY.

18. THE OWNER IS RESPONSIBLE FOR ARRANGEMENTS TO PAY FOR ALL MATERIAL TESTING REQUIRED BY THE PUBLIC WORKS INSPECTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE TO IT THAT ALL TESTING REQUIRED BY THE PUBLIC WORKS INSPECTOR IS PERFORMED.

19. THE CONTRACTOR SHALL MEET WITH CITY OF STOCKTON AT LEAST 3 BUSINESS DAYS PRIOR TO START OF CONSTRUCTION WITH AT LEAST 2 BUSINESS DAYS NOTICE REQUIRED BEFORE ALL INSPECTIONS. ALL ARRANGEMENTS FOR SITE INSPECTION ARE THE RESPONSIBILITY OF THE CONTRACTOR.

20. ALL CONSTRUCTION SHALL BE LIMITED TO BETWEEN THE HOURS OF 7:00 A.M. AND 6:00 P.M., MONDAY THROUGH FRIDAY AND INSPECTION REQUESTS SHALL BE LIMITED TO NORMAL CITY BUSINESS HOURS: 8:00 A.M. THROUGH 5:00 P.M. MONDAY THROUGH THURSDAY. ARRANGEMENTS FOR ANY OVERTIME INSPECTION SERVICES AND PAYMENT OF FEES FOR SAME SHOULD BE MADE AT LEAST 3 BUSINESS DAYS IN ADVANCE AND ARE SUBJECT TO INSPECTION AVAILABILITY AND APPROVAL BY THE CITY ENGINEER.

21. THE CITY OF STOCKTON OR ASSOCIATED UTILITY COMPANY AND RESIDENCES TO BE AFFECTED SHALL BE NOTIFIED IMMEDIATELY UPON ANY UTILITY SERVICE DISRUPTION OTHER THAN SPECIFIED ON THESE IMPROVEMENT PLANS AND AT LEAST 3 BUSINESS DAY NOTICE SHALL BE GIVEN FOR ANY PLANNED DISRUPTION.

22. THE CONTRACTORS SHALL SUBMIT TO THE ENGINEER, PRIOR TO FINAL ACCEPTANCE, AS BUILT DRAWINGS OF ALL IMPROVEMENTS REPRESENTED BY THE PROJECT PLANS AND SPECIFICATIONS. THE AS-BUILT DRAWINGS OF THE ELECTRICAL SYSTEM SHALL INCLUDE THE STREET LIGHT LAYOUT PLAN SHOWING LOCATION OF LIGHTS, CONDUITS, CONDUCTORS, POINTS OF CONNECTIONS TO P.G.&E. SERVICE PULL BOXES, AND WIRE SIZES.

23. CONSTRUCTION EQUIPMENT SHALL UTILIZE LOWER SACRAMENTO ROAD FOR ACCESS.

24. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS REQUIRING REMOVAL AND REPLACEMENT OF EXISTING IMPROVEMENTS.

25. THE CONTRACTOR IS TO MAKE PROVISIONS FOR TRENCH SPOILS.

26. SAWCUT ALL TRENCHES IN EXISTING PAVEMENT.

27. THE CONTRACTOR IS RESPONSIBLE FOR COMPACTION OF ALL UTILITY TRENCHES INCLUDING P.G.&E. AND FOR THE SPOILS GENERATED BY THESE SAME UTILITY TRENCHES.

28. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE DESIGN ENGINEER OF ANY ANTICIPATED SOILS IMBALANCE SO GRADES CAN BE ADJUSTED. ADJUSTMENTS REQUIRE THE APPROVAL OF THE CITY ENGINEER.

29. ALL ENDS, BENDS, AND TEES ON WATER LINES MUST HAVE ADEQUATE THRUST BLOCKS CALCULATED FROM CITY OF STOCKTON STANDARDS.

30. CITY WILL OPERATE ALL EXISTING WATER VALVES. CONTRACTOR SHALL MAKE ARRANGEMENTS IN ADVANCE WITH THE PUBLIC WORKS INSPECTOR.

31. CURB INLETS ARE TO BE CITY OF STOCKTON TYPE "2" UNLESS OTHERWISE INDICATED.

32. DRAWING NUMBERS SHOWN ON THE PLANS REFER TO DRAWINGS CONTAINED IN THE CITY OF STOCKTON'S IMPROVEMENT STANDARDS AND SPECIFICATIONS, SHOWN THUS; (I. E. STD. SD-4)

33. CONTRACTOR SHALL FURNISH CERTIFICATES OF COMPLIANCE TO THE CITY FOR CRUSHED MISCELLANEOUS BASE MATERIAL AND FOR THE SPECIFIED CLASS OF P.C.C. PRIOR TO PAVING ROADWAYS.

34. IN AREAS WHICH ARE TO RECEIVE A.C., P.C.C., OR AGGREGATE BASE, THE CONTRACTOR SHALL MAINTAIN SUBGRADE AT THE AS-GRADED WATER CONTENT. IF THE SUBGRADE IS ALLOWED TO DRY, THE WATER CONTENT OF SOIL SHOULD BE RAISED TO THE RECOMMENDED VALUE SPECIFIED FOR THE PROJECT.

35. STREET SIGNS, TRAFFIC CONTROL SIGNS, AND PAVEMENT MARKINGS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT LOCATIONS SHOWN ON THESE PLANS.

36. THE CONTRACTOR SHALL SECURE A TRENCH PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO EXCAVATION OF ANY TRENCH OVER FIVE FEET IN DEPTH.

37. THE CONTRACTOR SHALL VERIFY LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES AND SHALL CONTACT THE RESPECTIVE UTILITY COMPANIES PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF ALL SUCH FACILITIES IN THE AREA OF CONSTRUCTION AND SHALL NOTIFY UTILITIES FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY CONSTRUCTION.

38. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE REMOVAL OR RELOCATIONS OF ALL EXISTING UTILITIES WITH RESPECTIVE UTILITY COMPANIES.

39. MANHOLE CASTINGS AND COVERS SHALL BE ADJUSTED TO FINAL GRADES BY THE PAVING CONTRACTOR AFTER STREET IMPROVEMENTS ARE COMPLETED.

40. ALL TRENCHES ON MAJOR AND COLLECTOR STREETS AND CROSS TRENCHES ON ALL STREETS SHALL BE PAVED WITH TEMPORARY PAVING THE SAME DAY THE PAVEMENT CUT IS MADE.

41. IT IS INTENDED THAT THESE PLANS AND SPECIFICATIONS REQUIRE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THEIR TRUE INTENT AND PURPOSE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY REGARDING ANY DISCREPANCIES OR AMBIGUITIES WHICH MAY EXIST IN THE PLANS OR SPECIFICATIONS. THE ENGINEER'S INTERPRETATION OR CORRECTION THEREOF SHALL BE CONCLUSIVE.

42. FOR ALL WORK WITHIN PUBLIC RIGHT-OF-WAYS, THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT AND SHALL PRESERVE THE INTEGRITY AND LOCATION OF ANY AND ALL PUBLIC UTILITIES, STREET IMPROVEMENTS AND PROVIDE NECESSARY CONSTRUCTION TRAFFIC CONTROL. THE CONTRACTOR SHALL THROUGH THE ENCROACHMENT PERMIT PROCESS, VERIFY WITH THE CITY OF STOCKTON THE NEED FOR ANY DETOUR PLAN. IF A PLAN IS REQUIRED, CONTRACTOR SHALL PROVIDE PLAN AND RECEIVE APPROVAL PRIOR TO CONSTRUCTION.

43. THE CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL ELECTRICAL, PIPING AND CONDUITS, STRUCTURES AND OTHER FACILITIES. THE AS-BUILTS OF THE ELECTRICAL SYSTEM SHALL INCLUDE THE STREET LIGHT LAYOUT PLAN SHOWING LOCATIONS OF LIGHTS, CONDUITS, CONDUCTORS, POINTS OF CONNECTIONS, PULLBOXES AND WIRE SIZES. AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR.

44. PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE ENGINEER, ONE SET OF NEATLY MARKED AS-BUILT RECORD DRAWINGS INCLUDING THE INFORMATION REQUIRED ABOVE. AS-BUILT RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT RECORD DRAWINGS SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS A PRECONDITIONED TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL CITY ACCEPTANCE. THE ENGINEER SHALL PROVIDE THE CITY WITH A COMPLETE REPRODUCIBLE AS-BUILTS RECORD DRAWING SET.

45. WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.

46. CONSTRUCTION STAKING SHALL BE DONE BY O'DELL ENGINEERING. THE CONTRACTOR SHALL NOTIFY THE ENGINEER FORTY-EIGHT (48) HOURS IN ADVANCE OF THE NEED FOR STAKING. ANY STAKING REQUESTED BY THE CONTRACTOR OR HIS SUB-CONTRACTORS THAT IS ABOVE AND BEYOND NORMAL STANDARD SUBDIVISION STAKING NEEDS, MAY BE SUBJECT TO AN EXTRA WORK CHARGE.

47. PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL CURRENT STANDARDS FOR THE CITY OF STOCKTON ARE FOLLOWED AS WELL AS TO HAVE EACH UTILITY COMPANY LOCATE, IN THE FIELD THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY MEMBERS OF THE UNDERGROUND SERVICE ALERT (USA) 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING THE TOLL FREE NUMBER (800) 227-2600. THE CONTRACTOR SHALL RECORD THE U.S.A. ORDER NUMBER AND FURNISH ORDER NUMBER TO OWNER PRIOR TO ANY EXCAVATION. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY REPAIRS NECESSARY TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE DEVELOPMENT.

48. WHENEVER PAVEMENT IS BROKEN OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE SPECIFICATIONS. THE PAVEMENT SHALL BE REPLACED, AFTER PROPER BACKFILLING, WITH PAVEMENT MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL PAVING. THE FINISHED PAVEMENT SHALL BE SUBJECT TO THE APPROVAL OF THE PUBLIC WORKS DEPARTMENT.

49. PAYMENT FOR PAVEMENT WILL BE MADE ONLY FOR AREAS SHOWN ON PLANS, REPLACEMENT OF PAVEMENT WHICH IS BROKEN OR CUT DURING THE INSTALLATION OF THE WORK COVERED BY THESE SPECIFICATIONS, AND WHICH LIES OUTSIDE OF SAID AREAS, SHALL BE INCLUDED IN THE CONTRACTOR'S UNIT PRICE FOR PAVEMENT, AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR SUCH WORK.

50. WE CALL YOUR ATTENTION TO TITLE 8 CALIFORNIA ADMINISTRATION CODE SECTION 1540 (A) (1) OF THE CONSTRUCTION SAFETY ORDERS ISSUED BY THE OCCUPATION SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONS SAFETY AND HEALTH ACT OF 1973 AS AMENDED WHICH STATES: (1) PRIOR TO OPENING AND EXCAVATION, EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATIONS; I.E., SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING; AND, WHEN IT IS UNCOVERED ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION.

GRADING NOTES

1. THE GRADING AREAS SHOULD BE PREPARED FOR GRADING BY REMOVING EXISTING VEGETATION, LARGE ROOTS, DEBRIS, AND OTHER POTENTIALLY DELETERIOUS MATERIALS. THE SITE PREPARATION OPERATIONS SHOULD BE OBSERVED BY THE GEOTECHNICAL ENGINEER.

2. EXISTING UTILITY LINES THAT WILL NOT REMAIN IN SERVICE SHOULD BE EITHER REMOVED OR PROPERLY ABANDONED. THE APPROPRIATE METHOD OF UTILITY ABANDONMENT WILL DEPEND UPON THE TYPE, DEPTH, AND LOCATION OF THE UTILITY. RECOMMENDATIONS FOR ABANDONMENT CAN BE MADE AS NECESSARY.

3. THE SOIL IN THE GRADING AREAS SHOULD BE REMOVED (OVEREXCAVATED) TO A MINIMUM DEPTH OF 1 FOOT BELOW EXISTING GRADE. IF SOFT SOILS, EXISTING FILL, BURIED OBJECTS, OR OTHER POTENTIALLY ADVERSE CONDITIONS ARE OBSERVED DURING OVEREXCAVATION, ADDITIONAL DEPTH OF OVEREXCAVATION OR OTHER REMEDIAL GRADING MEASURES MAY BE RECOMMENDED BY THE GEOTECHNICAL ENGINEER. THE OVEREXCAVATION OPERATIONS SHOULD BE OBSERVED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONTINUING GRADING.

4. THE OVEREXCAVATED SURFACES SHOULD BE CROSS-SCARIFIED TO A DEPTH OF APPROXIMATELY 8 INCHES. THE SOIL SHOULD THEN BE MOISTURE CONDITIONED TO A LEVEL ABOVE OPTIMUM MOISTURE CONTENT AND RECOMPACTED. CUT SURFACES TO RECEIVE IMPROVEMENTS SHOULD BE SCARIFIED, MOISTURE CONDITIONED, AND RECOMPACTED IN A SIMILAR MANNER.

5. THE SLOPE ABOVE THE KEYWAY SHOULD BE CUT TO CREATE BENCHES. THE BENCHES SHOULD BE A MINIMUM OF 8 FEET WIDE AND SHOULD BE BOTTOMED INTO FIRM SOIL. OTHER SLOPES STEEPER THAN 10 PERCENT TO RECEIVE FILL SHOULD BE BENCHED IN A SIMILAR MANNER.

6. THE BOTTOMS OF THE KEYWAY AND BENCHES SHOULD BE ANGLED 2 TO 3 PERCENT BACK INTO THE SLOPE. THE SOIL AT THE BOTTOMS OF THE KEYWAY AND BENCHES SHOULD BE CROSS-SCARIFIED TO AN APPROXIMATE DEPTH OF 8 INCHES, MOISTURE CONDITIONED TO A LEVEL ABOVE OPTIMUM MOISTURE CONTENT, AND RECOMPACTED. THE KEYING AND BENCHING OPERATIONS SHOULD BE OBSERVED BY THE GEOTECHNICAL ENGINEER DURING GRADING.

7. THE PREVIOUSLY OVEREXCAVATED MATERIAL AND OTHER ON-SITE SOILS MAY BE USED AS FILL PROVIDED THAT THE FILL DOES NOT CONTAIN EXCESSIVE QUANTITIES OF ORGANICS OR OTHER POTENTIALLY DELETERIOUS MATERIALS. THE FILL SHOULD BE COMPACTED TO A MINIMUM 90 PERCENT OF MAXIMUM DRY DENSITY WITHIN THE UPPER 10 FEET OF THE BUILDING PAD ELEVATION. BELOW THAT DEPTH, THE FILL SHOULD BE COMPACTED TO A MINIMUM 92 PERCENT OF MAXIMUM DRY DENSITY. IN PAVEMENT AREAS, THE UPPER 12 INCHES OF SUB GRADE SOIL AND THE AGGREGATE BASE COURSES SHOULD BE COMPACTED TO A MINIMUM 95 PERCENT OF MAXIMUM DRY DENSITY.

8. THE SUB GRADE AND BASE SHOULD BE FIRM AND UNYIELDING WHEN PROOFROLLED WITH HEAVY, RUBBER-TIRED EQUIPMENT PRIOR TO CONTINUING CONSTRUCTION. THE SUBGRADE SOIL SHOULD BE PERIODICALLY MOISTENED AS NECESSARY PRIOR TO PLACEMENT OF THE AGGREGATE BASE TO MAINTAIN THE SOIL MOISTURE CONTENT ABOVE OPTIMUM.

9. DUE TO THE FINE-GRAINED NATURE OF THE UPPER SOILS, THERE IS A POTENTIAL FOR THE SOILS TO BECOME UNSTABLE DURING GRADING. UNSTABLE SOILS HINDER COMPACTIVE EFFORT AND ARE INAPPROPRIATE FOR PLACEMENT OF FILL. ALTERNATIVES TO CORRECT INSTABILITY INCLUDE AERATION TO DRY THE SOILS AND THE USE OF GRAVEL OR GEOTEXTILES, AND CHEMICAL (QUICKLIME/CEMENT) TREATMENT AS STABILIZING MEASURES. RECOMMENDATIONS FOR STABILIZATION SHOULD BE PROVIDED BY THE GEOTECHNICAL ENGINEER AS NEEDED DURING CONSTRUCTION.

10. CUT AND FILL SLOPES SHOULD NOT BE STEEPER THAN 2:1, MEASURED HORIZONTALLY TO VERTICALLY.

11. IF DESIRED, THE ROUGH GRADING OF THE BUILDING PADS CAN BE PERFORMED SELECTIVELY TO PLACE GRANULAR SOILS NEAR FINISH GRADE, THEREBY REDUCING THE MEASURES NEEDED TO COMPENSATE FOR SOIL EXPANSION AND CONTRACTION. SIMILARLY, THE GRANULAR MATERIALS CAN BE SELECTIVELY PLACED IN ROADBEDS TO REDUCE THE QUANTITY OF AGGREGATE BASE TO BE IMPORTED TO THE SITE. RECOMMENDATIONS FOR SELECTIVE GRADING CAN BE PROVIDED BY THE GEOTECHNICAL ENGMEER BASED ON CONDITIONS OBSERVED AT THE TIME OF GRADING.

12. THE CONTRACTOR SHALL REQUIRE WATER TRUCKS TO OPERATE IN CONJUNCTION WITH GRADING EQUIPMENT AND APPLICATION OF WATER SHALL BE MADE AS FREQUENTLY AS IS NECESSARY TO CONTROL DUST AT A MINIMUM OF THREE TIMES A DAY. IF THE DUST IS NOT ADEQUATELY CONTROLLED THROUGH THE APPLICATION OF WATER, GRADING ACTIVITIES WILL BE SUSPENDED AND AN HOURLY WATERING SCHEDULE AND/OR MAXIMUM LIMIT ON THE DAILY NUMBER OF CUBIC YARDS TO BE GRADED WILL BE IMPOSED PRIOR TO THE RESUMPTION OF GRADING. IN ADDITION, ALL GRADING ACTIVITIES DURING PERIODS OF HIGH WINDS (OVER 15 MPH) ARE PROHIBITED.

CLEARING NOTES:

1. THE CONTRACTOR SHALL REVIEW SITE PRIOR TO BIDDING. ALL VEGETATION, STRUCTURES, TREES, DELETERIOUS MATERIAL, ETC. SHALL BE REMOVED FROM THE SITE AT THE EXPENSE OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE LUMP SUM CLEARING COST. ALL WORK SHALL COMPLY WITH THE GEOTECHNICAL ENGINEERING INVESTIGATION COMPLETED FOR THIS PROJECT.

DUST CONTROL NOTES:

1. SPRAY WATER ON ALL EXPOSED EARTH SURFACED DURING CLEARING, GRADING, EARTH MOVING AND OTHER SITE PREPARATION ACTIVITIES THROUGHOUT THE DAY TO MINIMIZE DUST. USE TARPAULINS OR OTHER EFFECTIVE COVERS ON ALL STOCKPILED EARTH MATERIAL AND ON ALL HAUL TRUCKS TO MINIMIZE DUST. SWEEP THE ADJACENT STREET FRONTAGES AT LEAST ONCE A DAY OR AS NEEDED TO REMOVE SILT AND OTHER DIRT WHICH IS EVIDENT FROM CONSTRUCTION ACTIVITIES. ENSURE THAT CONSTRUCTION VEHICLES ARE CLEANED PRIOR TO LEAVING THE SITE TO PREVENT DUST AND DIRT FROM BEING TRACKED OFF SITE.

2. ALL EXPOSED SURFACES SHALL BE WATERED A MINIMUM OF TWICE DAILY UNLESS DEEMED UNNECESSARY DUE TO WEATHER. WATER SHALL BE APPLIED AS PROVIDED IN SECTION 17 OF CALTRANS STANDARD SPECIFICATIONS.

3. DUST PALLIATIVES MAY BE SUBSTITUTED FOR WATERING UPON THE APPROVAL OF THE CITY ENGINEER. DUST PALLIATIVES SHALL BE APPLIED AS PROVIDED IN SECTION 18 OF CALTRANS STANDARD SPECIFICATIONS.

4. ALL EXPOSED EARTH SURFACES SHALL BE PLANTED AT THE EARLIEST POSSIBLE TIME.

STORM WATER POLLUTION PREVENTION:

1. STORM WATER POLLUTION PREVENTION PLAN (SWPPP) WILL BE PREPARED IN ACCORDANCE WITH THE CURRENT STATE WATER RESOURCES CONTROL BOARD N.P.D.E.S. PERMIT REQUIREMENTS. CONTRACTOR SHALL SUPPLY A SWPPP COMPLETED BY A QUALIFIED SWPPP DEVELOPER (QSD). THE SWPPP SHALL BE AVAILABLE AT THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.

LANDSCAPING/IRRIGATION NOTES:

1. CONTRACTOR TO REFER TO LANDSCAPE PLANS 4987C PREPARED BY OTHERS FOR LANDSCAPE IRRIGATION SERVICE SIZE AND LOCATIONS.

NOTES:

1. ALL EXISTING UTILITIES WERE PLOTTED FROM RECORD INFORMATION AND FIELD TOPOGRAPHY. ACTUAL LOCATIONS MAY VARY AND ADDITIONAL CROSSINGS MAY EXIST IN THE FIELD. IT IS IMPERATIVE THAT "U.S.A. LOCATING SERVICES" LOCATE AND MARK EXISTING UTILITIES PRIOR TO THE START OF EXCAVATION.
2. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN EXPOSING EXISTING UTILITY CROSSINGS AND SERVICES.
3. ANY DAMAGE TO EXISTING UTILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

CALL BEFORE YOU DIG USA 800-227-2600

REGISTERED PROFESSIONAL ENGINEER MICHAEL T. PERRY No. C44908 Exp. 3/31/14 CIVIL STATE OF CALIFORNIA
2-26-14

REVISION NO.	DESCRIPTION	DATE	BY	APPRVD. BY

O'DELL ENGINEERING
Modesto Palo Alto Pleasanton
1165 Scenic Drive, Suite B
Modesto, CA 95350
Ph 209.571.1765 odellengineering.com

NORTHBROOK : LOWER SACRAMENTO ROAD/ MARLETTE ROAD INTERSECTION IMPROVEMENTS

NOTES

DEPARTMENT OF PUBLIC WORKS
CITY OF STOCKTON, CALIFORNIA

SCALE: N/A	APPROVED BY: DATE 3/26/14	SHEET NO.	2
DESIGNED BY: JLL		OF 15 SHEETS	
DRAWN BY: JLL		PROJECT NO.	20602
CHECKED BY: MP	CITY ENGINEER		
RECORD DWG.: 20602-NT.dwg	STOCKTON, CALIFORNIA		

5207.16