

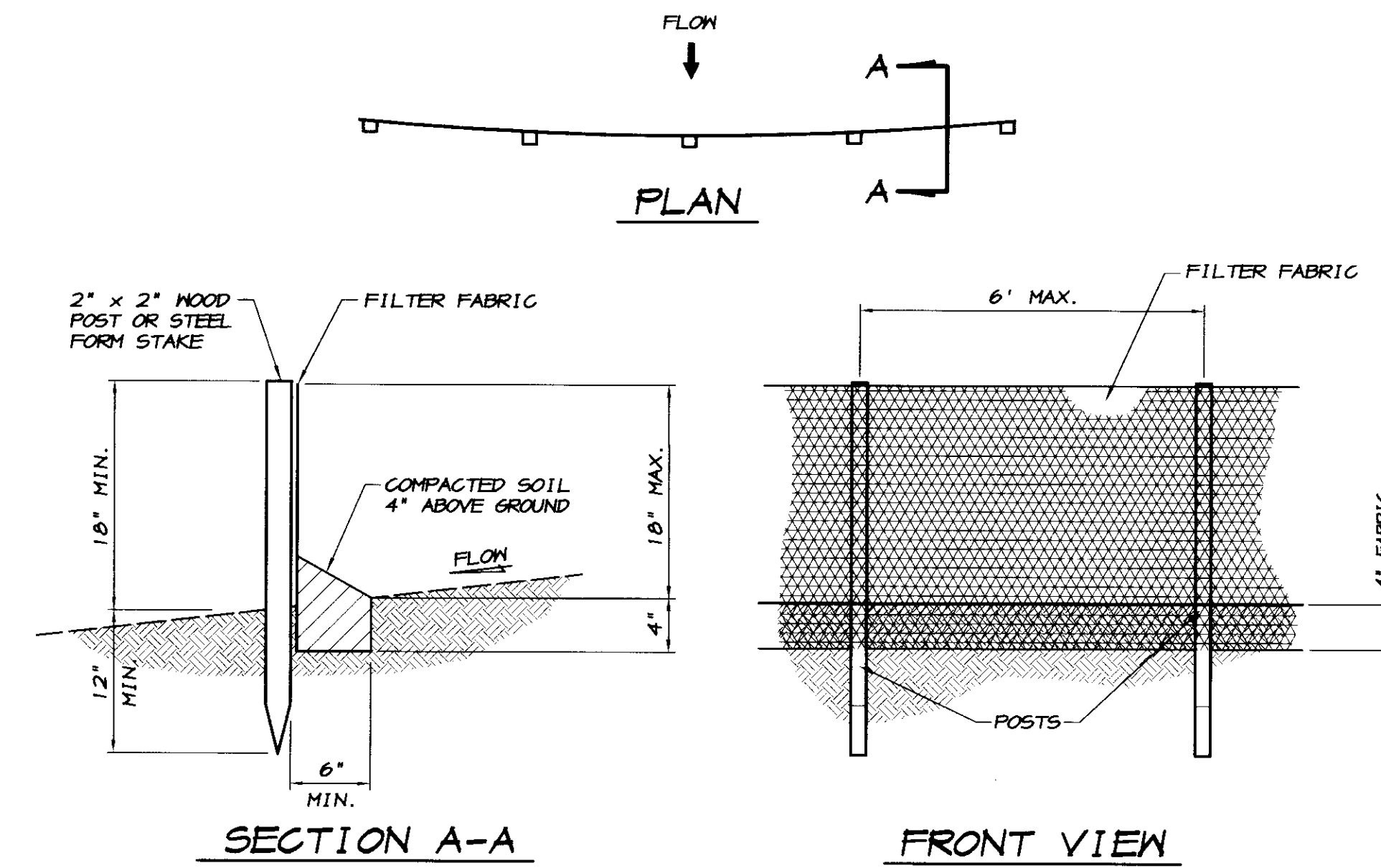
**SECTION**

**NOTE**

CONTRACTOR SHALL INSPECT MATTLES WEEKLY AND AFTER EACH RAINFALL. REPAIRS SHALL BE MADE AS NECESSARY AND SEDIMENT SHALL BE REMOVED WHEN IT HAS ACCUMULATED TO A DEPTH OF 4 INCHES. MATTLES SHALL BE REPLACED WHEN THEY HAVE BEEN DAMAGED, COLLAPSED OR DECOMPOSED.

**STRAW WATTLE DETAIL**

NO SCALE

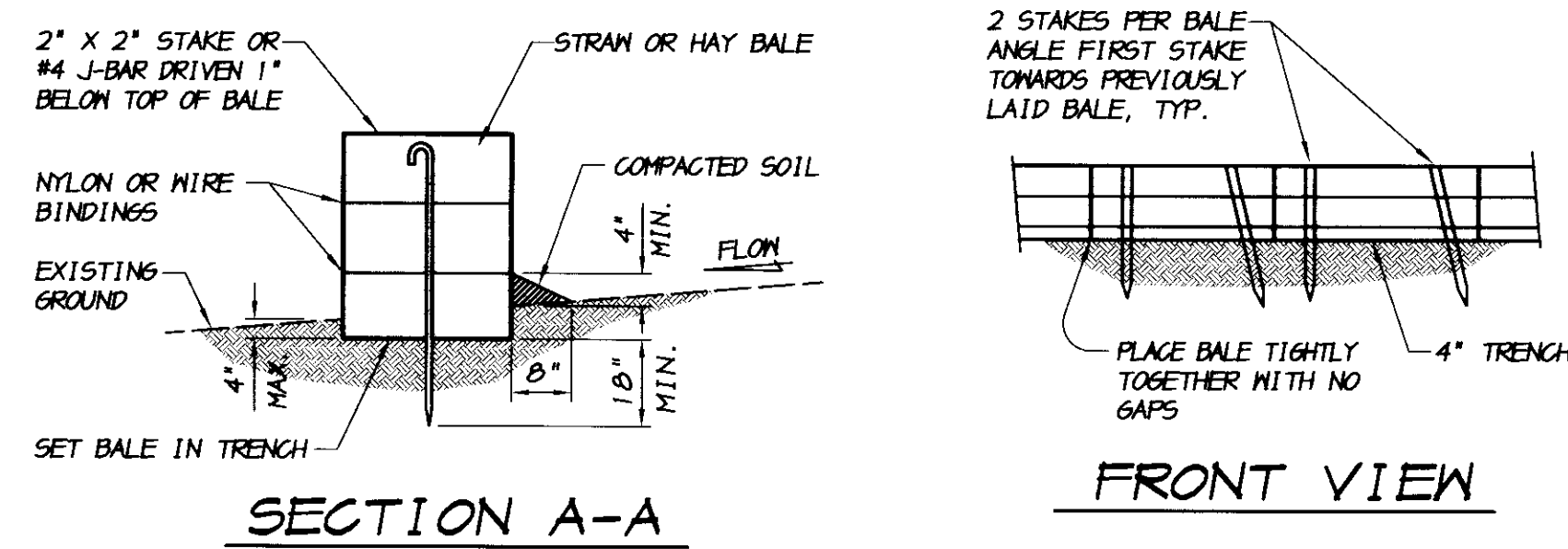


**SECTION A-A**

**FRONT VIEW**

**NOTES**

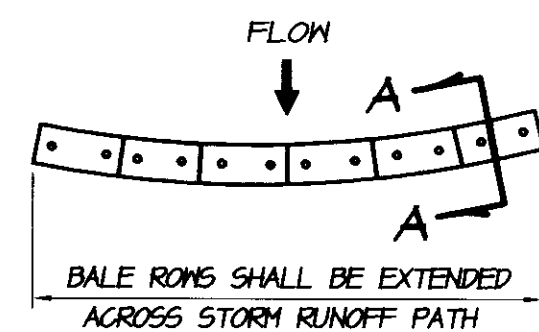
1. FILTER BARRIER SHALL BE CONSTRUCTED LONG ENOUGH TO EXTEND ACROSS THE EXPECTED FLOW PATH AND AS APPROVED BY THE ADMINISTRATOR.
2. FILTER FABRIC SHALL BE PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN WITH A MINIMUM TENSILE STRENGTH OF 50 LBS. PER LINEAR FOOT AT 20 PERCENT MAXIMUM ELONGATION AND CONTAINING ULTRAVIOLET INHIBITORS. FILTER FABRIC SHALL RETAIN A MINIMUM OF 85% OF THE SOIL, BY HEIGHT, BASED ON SIEVE ANALYSIS, BUT IS NOT FINER THAN AN EQUIVALENT OPENING SIZE OF 70.
3. SUPPORT POSTS SHALL BE A MINIMUM 30 INCHES LONG 2" x 2" WOOD POSTS OR STEEL FORM STAKES DRIVEN A MINIMUM OF 12 INCHES INTO THE GROUND. POSTS SHALL BE SPACED A MAXIMUM 6 FEET APART.
4. A 4 INCH FABRIC TRENCH SHALL BE EXCAVATED ALONG THE UPHILL SIDE OF FILTER BARRIER POSTS. THE BOTTOM EDGE OF THE FABRIC SHALL EXTEND TO AND ACROSS THE BOTTOM OF THE TRENCH. THE TRENCH SHALL BE BACK FILLED TO 4 INCHES ABOVE GROUND AND COMPACTED TO BURY AND SECURE THE BOTTOM OF THE FILTER FABRIC.
5. CONTRACTOR SHALL MAKE INSPECTIONS WEEKLY DURING THE WET SEASON, MONTHLY DURING THE DRY SEASON AND IMMEDIATELY AFTER EACH RAINFALL TO DETERMINE IF REPAIRS AND SEDIMENT REMOVAL IS REQUIRED. SEDIMENT SHALL BE REMOVED BEFORE IT HAS REACHED ONE THIRD THE HEIGHT OF THE FILTER FABRIC.



**SECTION A-A**

**FRONT VIEW**

**STRAW BALE ALIGNMENT**



**NOTES**

1. PLACE BALES IN 4 INCH DEEP TRENCH ALONG THE CONTOUR OF THE SLOPE IN THE SHAPE OF AN ARC WITH THE ENDS UPHILL OF THE ARC'S CENTER. BALES SHALL BE PLACED SO THAT BINDINGS ARE HORIZONTAL.
2. BALES SHALL BE ANCHORED BY TWO 2" x 2" STAKES OR #4 J-BAR DRIVEN THROUGH THE BALE AND IN TO THE GROUND A MINIMUM DEPTH OF 18 INCHES. STAKES OR J-BARS SHALL BE DRIVEN 1 INCH OR MORE BELOW THE TOP OF THE BALE. THE FIRST STAKE OR J-BAR IN EACH BALE SHALL BE DRIVEN AT AN ANGLE TOWARDS THE PREVIOUSLY LAID BALE TO FORCE THE BALES TIGHTLY ABUTTED TOGETHER.
3. AFTER BALES ARE STAKED IN PLACE, EXCAVATED SOIL SHALL BE BACKFILLED AGAINST THE UPHILL SIDE TO A MINIMUM HEIGHT OF 4 INCHES.
4. CONTRACTOR SHALL INSPECT BALES WEEKLY AND AFTER EACH RAINFALL. REPAIRS SHALL BE MADE AS NECESSARY AND SEDIMENT SHALL BE REMOVED WHEN IT HAS ACCUMULATED TO A DEPTH OF 6 INCHES. BALES SHALL BE REPLACED WHEN THEY HAVE BEEN DAMAGED, COLLAPSED OR DECOMPOSED.

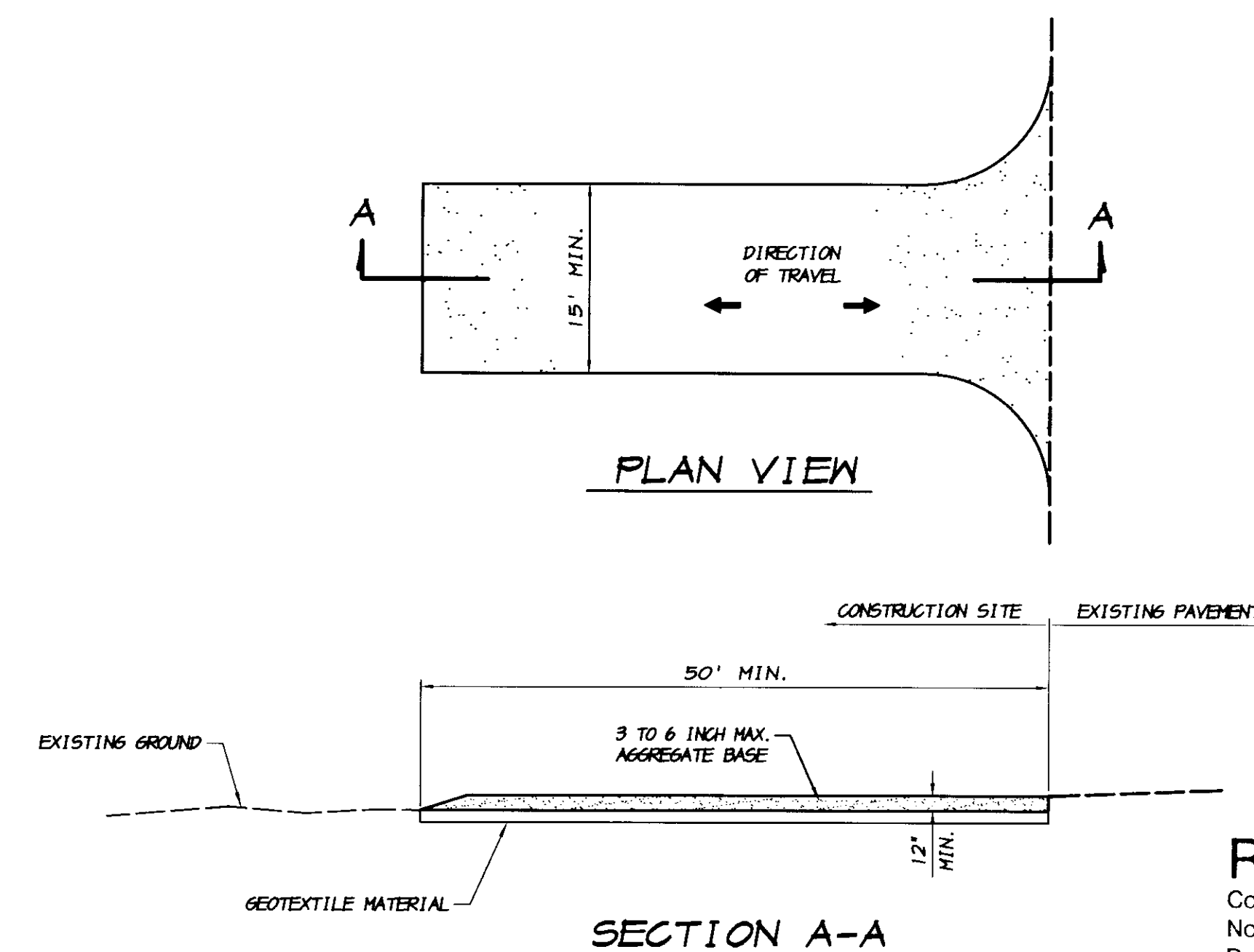
SILT FENCE

**STRAW BALE BARRIER**

NO SCALE

**SILT FENCE  
FILTER BARRIER**

NO SCALE



**SECTION A-A**

**NOTES**

1. STABILIZED CONSTRUCTION SITE ACCESS SHALL BE CONSTRUCTED OF 3" TO 6" MAX. AGGREGATE BASE MATERIAL CONFORMING TO CITY OR COUNTY STANDARDS. MATERIAL SHALL BE PLACED TO A MINIMUM THICKNESS OF 12". THE METHOD OF PLACING, SPREADING AND COMPACTING AGGREGATE BASE MATERIAL SHALL CONFORM TO SECTION 26 OF THE STATE SPECIFICATIONS.
2. LENGTH OF ENTRANCE SHALL BE A MINIMUM OF 50 FEET. WIDTH SHALL BE A MIN. OF 15 FEET OR GREATER IF NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS. PROVIDE AMPLE TURNING RADIUS.
3. THE ENTRANCE SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING WITH AGGREGATE BASE MATERIAL.
4. ACCESSES SHALL BE INSPECTED WEEKLY DURING PERIODS OF HEAVY USAGE, MONTHLY DURING NORMAL USAGE, AND AFTER EACH RAINFALL, WITH MAINTENANCE PROVIDED AS NECESSARY. PERIODIC TOP DRESSING SHALL BE DONE AS NEEDED.

**STABILIZED CONSTRUCTION**

**SITE ACCESS**

NO SCALE

**RECORD DRAWING**

Corrections By \_\_\_\_\_  
No Changes By RL  
Date 3/12/2008  
Any Person Using This Drawing Should Verify All information By inspecting The Site Of Work

**ASSOCIATED ENGINEERING, INC.**  
Surveying • Design • Planning  
4306 TECHNOLOGY DRIVE  
MODESTO, CALIFORNIA 95366  
PH: (209) 545-3390 FAX: (209) 545-3875



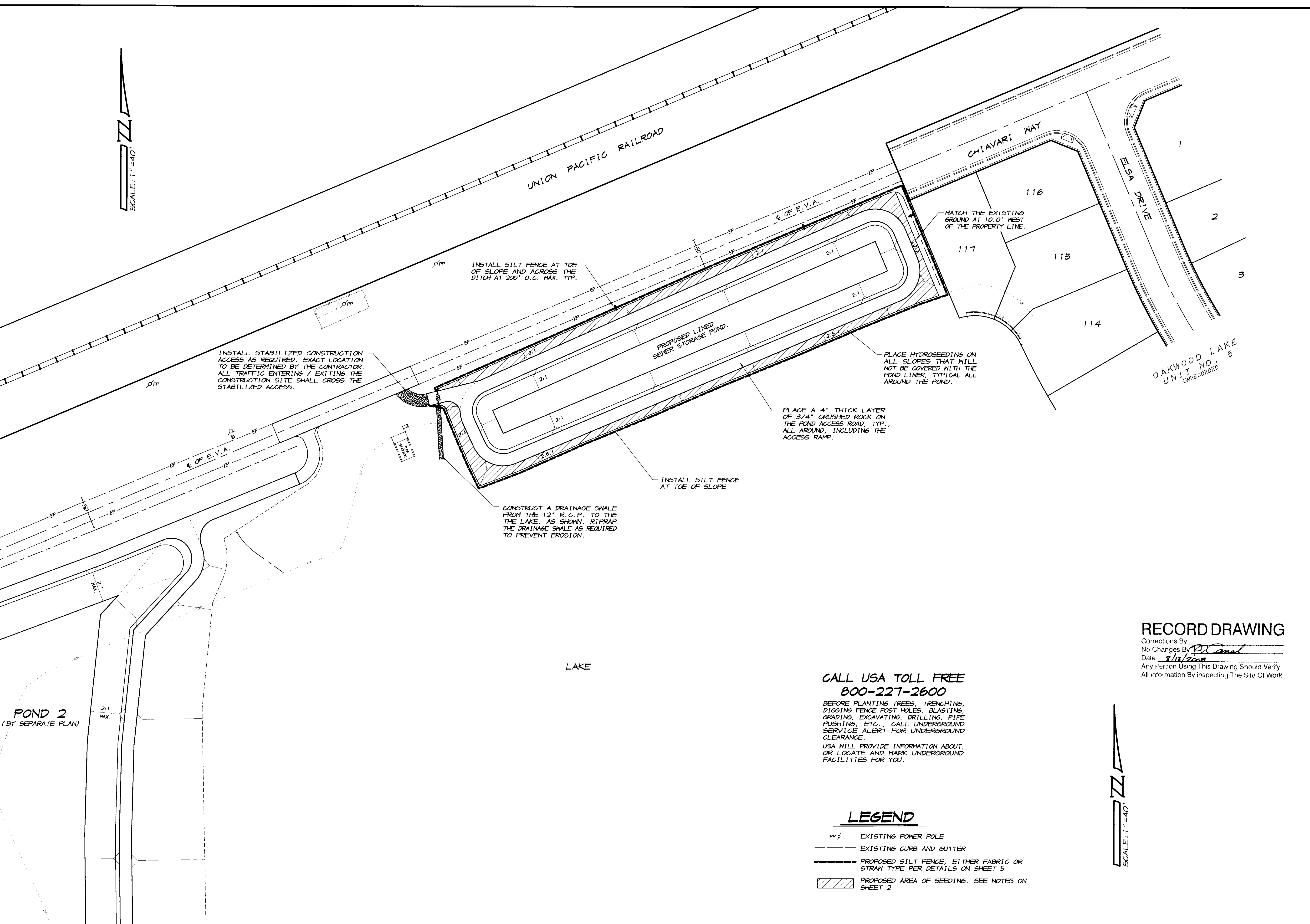
TRACT NO. 9475  
**EROSION CONTROL DETAILS**  
SEWER STORAGE POND NO. 4  
**OAKWOOD LAKE SUBDIVISION**  
SAN JOAQUIN COUNTY CALIFORNIA

**Ryan Carrel**  
RYAN CARREL, R.C.E. 61619  
DAVE SKIDMORE, L.S. 7126  
REGISTERED PROFESSIONAL ENGINEER  
No. 61619  
Exp. 6-30-07  
CIVIL  
STATE OF CALIFORNIA

DRAWN BY: M.E.  
DATE: OCT. 9, 2006  
SCALE: NOTED  
DWG: 296L-ER04  
CHECKED: K.M.  
JOB # 296L-06

SHEET **5**  
OF **5**

SCALE: 1"=40'



INSTALL SILT FENCE AT TOE OF SLOPE AND ACROSS THE DITCH AT 200' O.C. MAX. TYP.

INSTALL STABILIZED CONSTRUCTION ACCESS AS REQUIRED. EXACT LOCATION TO BE DETERMINED BY THE CONTRACTOR. ALL TRAFFIC ENTERING / EXITING THE CONSTRUCTION SITE SHALL CROSS THE STABILIZED ACCESS.

PROPOSED LINED SEWER STORAGE POND.

PLACE HYDROSEEDING ON ALL SLOPES THAT WILL NOT BE COVERED WITH THE POND LINER. TYPICAL ALL AROUND THE POND.

PLACE A 4" THICK LAYER OF 3/4" CRUSHED ROCK ON THE POND ACCESS ROAD, TYP., ALL AROUND, INCLUDING THE ACCESS RAMP.

INSTALL SILT FENCE AT TOE OF SLOPE

CONSTRUCT A DRAINAGE SWALE FROM THE 12" R.C.P. TO THE LAKE, AS SHOWN. RIPRAP THE DRAINAGE SWALE AS REQUIRED TO PREVENT EROSION.

POND 2  
(BY SEPARATE PLAN)

LAKE

CALL USA TOLL FREE  
800-227-2600

BEFORE PLANTING TREES, TRENCHING, DIGGING FENCE POST HOLES, BLASTING, GRADING, EXCAVATING, DRILLING, PIPE PUSHING, ETC., CALL UNDERGROUND SERVICE ALERT FOR UNDERGROUND CLEARANCE.  
USA WILL PROVIDE INFORMATION ABOUT, OR LOCATE AND MARK UNDERGROUND FACILITIES FOR YOU.

**LEGEND**

- PP φ EXISTING POWER POLE
- ==== EXISTING CURB AND GUTTER
- PROPOSED SILT FENCE, EITHER FABRIC OR STRAM TYPE PER DETAILS ON SHEET 5
- ▨ PROPOSED AREA OF SEEDING. SEE NOTES ON SHEET 2

SCALE: 1"=40'

REVISION	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
 Surveying · Design · Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875

TRACT NO. 3475  
**EROSION CONTROL PLAN**  
 SEWER STORAGE POND NO. 4  
**OAKWOOD LAKE SUBDIVISION**  
 SAN JOAQUIN COUNTY CALIFORNIA

**RECORD DRAWING**  
 Corrections By \_\_\_\_\_  
 No Changes By RD Canal  
 Date 9/12/2008  
 Any Person Using This Drawing Should Verify All Information By Inspecting The Site Of Work

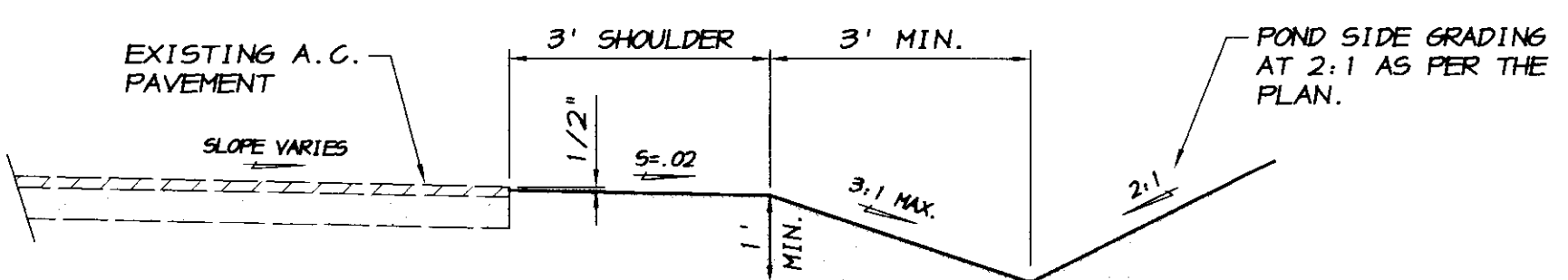
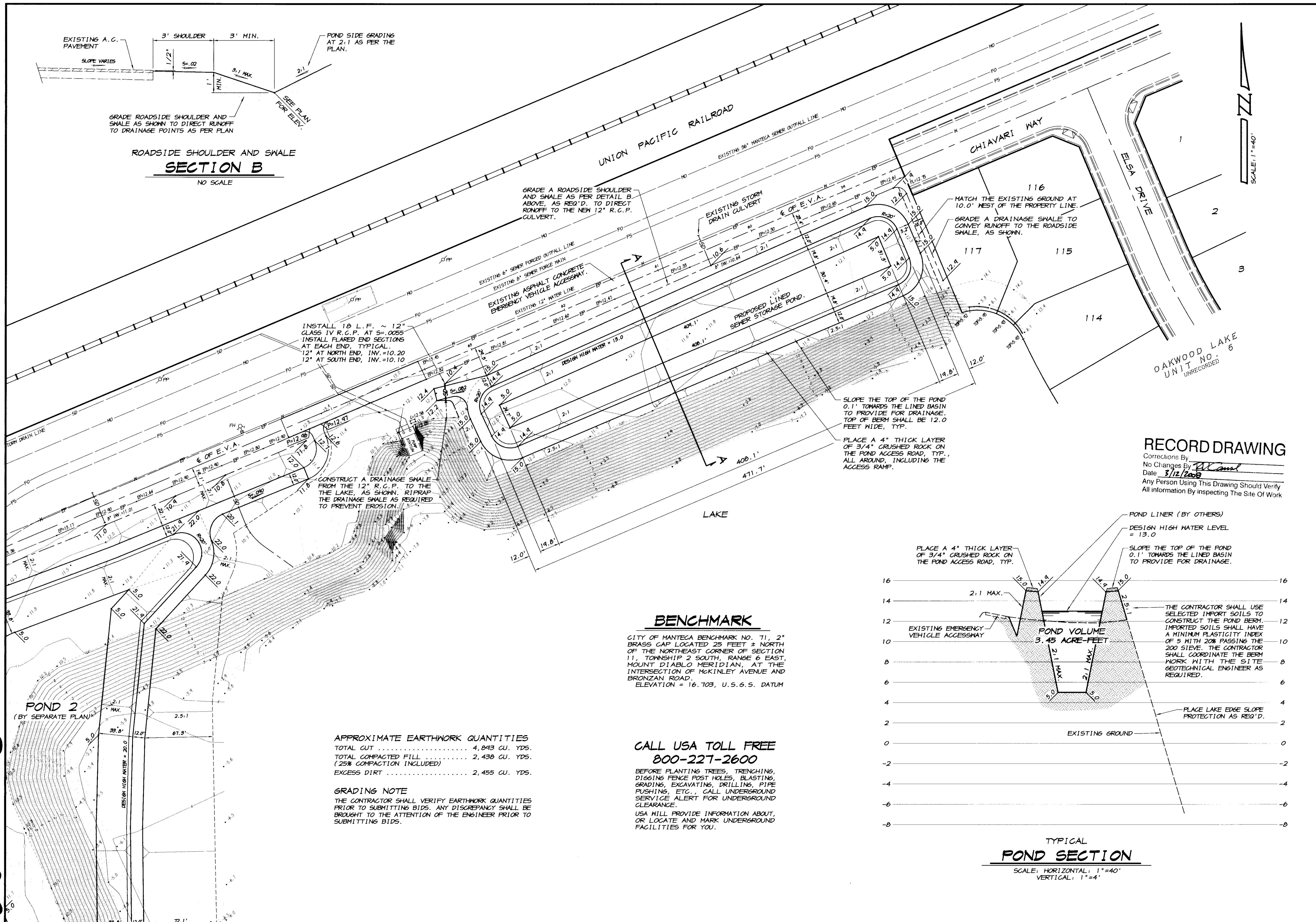
**RD Canal**  
 RYAN CARREL, R.C.E. 61619  
 DAVE SKIDMORE, L.S. 7126

REGISTERED PROFESSIONAL ENGINEER  
 RYAN CARREL  
 No. 61619  
 Exp. 6-30-07  
 CIVIL  
 STATE OF CALIFORNIA

DRAWN BY: M.E.  
 DATE: OCT. 9, 2006  
 SCALE: 1"=40'  
 DWG: 296L-ER04  
 CHECKED: K.W.  
 JOB #: 296L-06



SU 4492 4287



**ROADSIDE SHOULDER AND SWALE**  
**SECTION B**  
NO SCALE

INSTALL 10 L.F. ~ 12" CLASS IV R.C.P. AT S=0.0055  
INSTALL FLARED END SECTIONS AT EACH END, TYPICAL.  
12' AT NORTH END, INV.=10.20  
12' AT SOUTH END, INV.=10.10

CONSTRUCT A DRAINAGE SWALE FROM THE 12" R.C.P. TO THE LAKE, AS SHOWN. RIPRAP THE DRAINAGE SWALE AS REQUIRED TO PREVENT EROSION.

GRADE A ROADSIDE SHOULDER AND SWALE AS PER DETAIL B ABOVE, AS REQ'D. TO DIRECT RUNOFF TO THE NEW 12" R.C.P. CULVERT.

MATCH THE EXISTING GROUND AT 10.0' WEST OF THE PROPERTY LINE.  
GRADE A DRAINAGE SWALE TO CONVEY RUNOFF TO THE ROADSIDE SWALE, AS SHOWN.

SLOPE THE TOP OF THE POND 0.1' TOWARDS THE LINED BASIN TO PROVIDE FOR DRAINAGE. TOP OF BERM SHALL BE 12.0 FEET WIDE, TYP.

PLACE A 4" THICK LAYER OF 3/4" CRUSHED ROCK ON THE POND ACCESS ROAD, TYP., ALL AROUND, INCLUDING THE ACCESS RAMP.

**BENCHMARK**

CITY OF MANTECA BENCHMARK NO. 71, 2" BRASS CAP LOCATED 25 FEET ± NORTH OF THE NORTHEAST CORNER OF SECTION 11, TOWNSHIP 2 SOUTH, RANGE 6 EAST, MOUNT DIABLO MERIDIAN, AT THE INTERSECTION OF MCKINLEY AVENUE AND BRONZAN ROAD.  
ELEVATION = 16.708, U.S.G.S. DATUM

**CALL USA TOLL FREE**  
**800-227-2600**

BEFORE PLANTING TREES, TRENCHING, DIGGING FENCE POST HOLES, BLASTING, GRADING, EXCAVATING, DRILLING, PIPE PUSHING, ETC., CALL UNDERGROUND SERVICE ALERT FOR UNDERGROUND CLEARANCE.

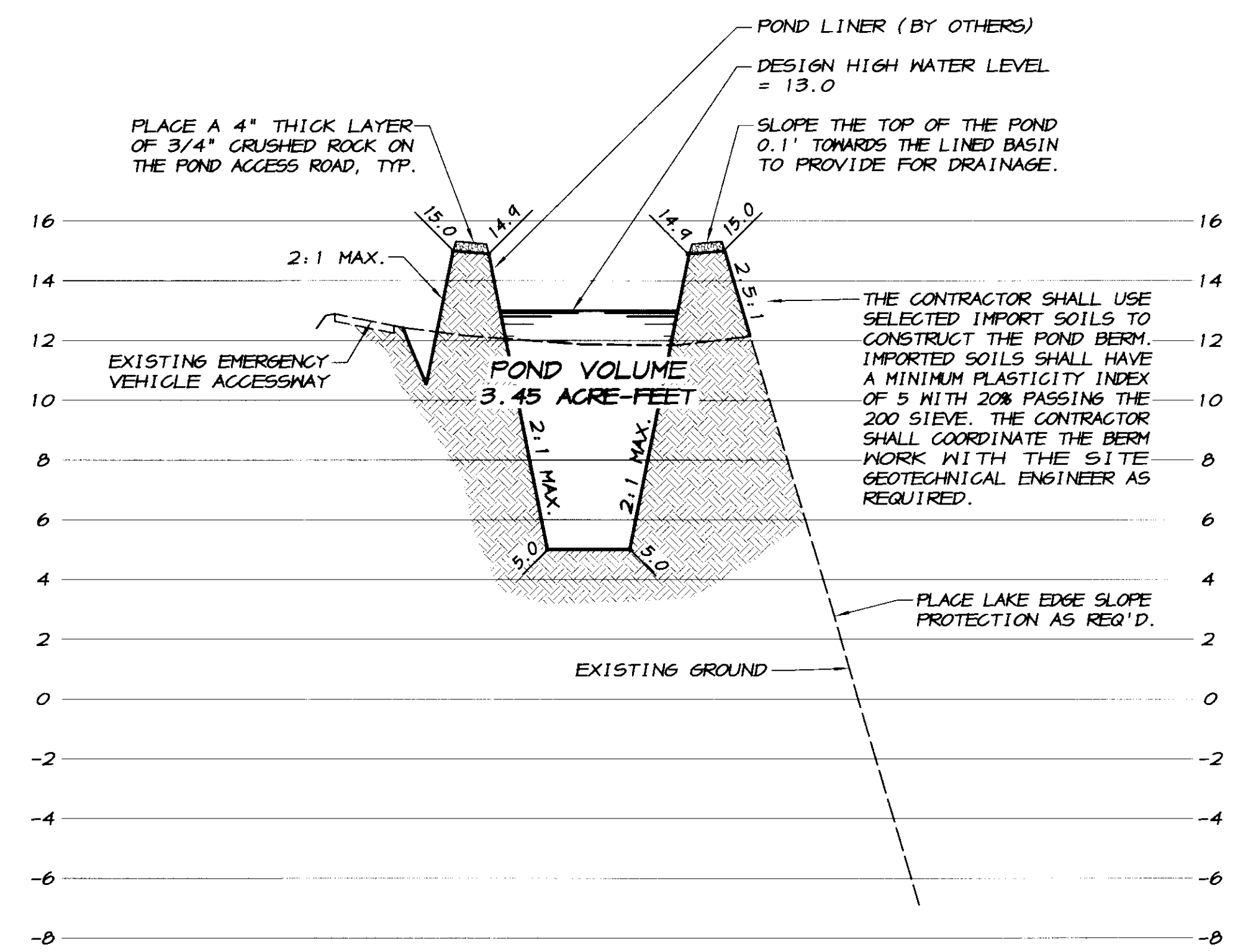
USA WILL PROVIDE INFORMATION ABOUT, OR LOCATE AND MARK UNDERGROUND FACILITIES FOR YOU.

**APPROXIMATE EARTHWORK QUANTITIES**  
TOTAL CUT ..... 4,843 CU. YDS.  
TOTAL COMPACTED FILL ..... 2,430 CU. YDS. (25% COMPACTION INCLUDED)  
EXCESS DIRT ..... 2,455 CU. YDS.

**GRADING NOTE**  
THE CONTRACTOR SHALL VERIFY EARTHWORK QUANTITIES PRIOR TO SUBMITTING BIDS. ANY DISCREPANCY SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO SUBMITTING BIDS.

**RECORD DRAWING**

Corrections By: PK  
No Changes By: PK  
Date: 3/12/2008  
Any Person Using This Drawing Should Verify All Information By Inspecting The Site Of Work

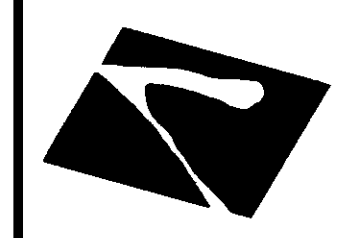


**TYPICAL POND SECTION**

SCALE: HORIZONTAL: 1"=40'  
VERTICAL: 1"=4'

REVISION	DATE	DESCRIPTION

**ASSOCIATED ENGINEERING, INC.**  
SURVEYING • DESIGN • PLANNING  
4206 TECHNOLOGY DRIVE  
MODESTO, CALIFORNIA 95356  
PH: (209) 545-3390 FAX: (209) 545-3875



TRACT NO. 3475  
**SEWER POND GRADING PLAN**  
SEWER STORAGE POND NO. 4  
**OAKWOOD LAKE SUBDIVISION**  
SAN JOAQUIN COUNTY CALIFORNIA

**PK**  
RYAN CARREL, R.E. 61619  
DAVE SKIDMORE, L.S. 7126



DRAWN BY: KEVIN  
DATE: OCT. 9, 2006  
SCALE: 1"=40'  
DWS: 246L-BASE4  
CHECKED: K.N.  
JOB #: 246L-06

SHEET **3** OF 5



# SPECIFICATIONS

1. ALL IMPROVEMENTS TO BE DONE SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE SAN JOAQUIN COUNTY DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS AND THE LATEST EDITION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, AND THE REQUIREMENTS OF THE OAKWOOD LAKE WATER DISTRICT.
2. BENCHMARK: CITY OF MANTEGA BENCHMARK NO. 71, 2" BRASS CAP LOCATED APPROXIMATELY 25 FEET NORTH OF THE NORTHEAST CORNER OF SECTION 11, TOWNSHIP 2 SOUTH, RANGE 6 EAST, MOUNT DIABLO MERIDIAN, AT THE INTERSECTION OF MCKINLEY AVENUE AND BRONZAN ROAD, ELEVATION = 16.703, U.S.G.S. DATUM.
3. SOILS REPORT: THE GEOTECHNICAL SERVICES REPORT FOR THE PROPOSED OAKWOOD LAKE DEVELOPMENT, WOODWARD AVENUE, MANTEGA, CALIFORNIA, AS PREPARED BY KLEINFELDER, INC., WITH PROJECT NO. 48043.601, DATED OCTOBER 27, 2004, IS HEREBY MADE A PART OF THESE PLANS.
4. THESE PLANS HAVE BEEN CHECKED BY THE COUNTY OF SAN JOAQUIN AND/OR ITS AUTHORIZED REPRESENTATIVE, BUT SUCH CHECKING AND/OR APPROVAL DOES NOT RELIEVE THE DEVELOPER FROM HIS RESPONSIBILITY TO CORRECT ERRORS, OMISSIONS OR MAKE CHANGES REQUIRED BY CONDITIONS DISCOVERED IN THE FIELD DURING THE COURSE OF CONSTRUCTION.
5. THE CONTRACTOR SHALL KEEP HIMSELF FULLY INFORMED OF ALL EXISTING AND FUTURE STATE AND FEDERAL LAWS AND ALL COUNTY MUNICIPAL AND SPECIAL DISTRICT ORDINANCES AND REGULATIONS WHICH IN ANY MANNER AFFECT THOSE ENGAGED OR EMPLOYED IN THE WORK, OR THE MATERIALS USED IN THE WORK, OR WHICH IN ANY WAY AFFECT THE CONDUCT OF THE WORK, AND OF ALL SUCH ORDERS AND DECREES OF BODIES OR TRIBUNALS HAVING ANY JURISDICTION OR AUTHORITY OVER THE SAME. THE CONTRACTOR SHALL AT ALL TIMES OBSERVE AND COMPLY WITH, AND SHALL CAUSE ALL HIS AGENTS AND EMPLOYEES TO OBSERVE AND COMPLY WITH ALL SUCH EXISTING AND FUTURE LAWS, ORDINANCES, REGULATIONS, ORDERS AND DECREES OF BODIES OR TRIBUNALS HAVING ANY JURISDICTION OR AUTHORITY OVER THE WORK; AND SHALL PROTECT AND INDEMNIFY SAN JOAQUIN COUNTY AND THE OWNER AND ALL OFFICERS AND EMPLOYEES THEREOF CONNECTED WITH THE WORK, INCLUDING THE ENGINEER, AGAINST ANY CLAIM OR LIABILITY ARISING FROM OR BASED ON THE VIOLATION OF ANY SUCH LAW, ORDINANCE, REGULATION, ORDER, OR DECREE, WHETHER BY HIMSELF OR HIS EMPLOYEES. IF ANY DISCREPANCY OR INCONSISTENCY IS DISCOVERED IN THE PLANS, SPECIFICATIONS, OR CONTRACT FOR THE WORK IN RELATION TO ANY SUCH LAW, ORDINANCE, REGULATION, ORDER, OR DECREE THE CONTRACTOR SHALL FORTHWITH REPORT THE SAME TO THE ENGINEER IN WRITING.
6. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ANY WORK PERFORMED BY THE CONTRACTOR OR OWNER BASED ON PLANS WHICH HAVE NOT BEEN SIGNED AND SEALED BY THE ENGINEER AND APPROVED BY THE DISTRICT, CITY OR COUNTY HAVING JURISDICTION. ALL INFORMATION SHOWN ON PRELIMINARY DRAWINGS IS SUBJECT TO CORRECTION AND CHANGE, AND THE CONTRACTOR OR OWNER SHALL PERFORM ANY AND ALL WORK AT THEIR OWN RISK.
7. ALL DISTANCES AND MEASUREMENTS ARE GIVEN AND WILL BE MADE IN A HORIZONTAL PLANE. GRADE WILL BE GIVEN FROM THE TOP OF NAILS OR STAKES, UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL PRESERVE ALL POINTS AND STAKES SET FOR LINES AND GRADES OR MEASUREMENTS OF THE WORK, IN THEIR PROPER LOCATION UNTIL AUTHORIZED TO REMOVE THEM BY THE ENGINEER. ALL EXPENSES INCURRED IN REPLACING STAKES THAT HAVE BEEN REMOVED WITHOUT PROPER AUTHORITY SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.
8. THESE PLANS HAVE BEEN PREPARED WITH THE INTENT THAT ASSOCIATED ENGINEERING GROUP, INC. WILL PERFORM THE CONSTRUCTION STAKING FOR THE COMPLETE PROJECT. THE CONTRACTOR SHALL PROVIDE ASSOCIATED ENGINEERING GROUP, INC. WITH FORTY-EIGHT HOURS ADVANCE NOTICE OF STAKING NEEDS. ANY STAKING REQUESTED BY THE CONTRACTOR OR THEIR SUBCONTRACTORS THAT IS ABOVE AND BEYOND THE AGREED UPON STAKING REQUEST SHALL BE SUBJECT TO AN EXTRA BACK CHARGE TO THE CONTRACTOR / CLIENT. IF ANOTHER FIRM OR AGENCY IS EMPLOYED TO USE THESE PLANS FOR THE PURPOSE OF CONSTRUCTION STAKING, NOTICE IS HEREBY GIVEN THAT ASSOCIATED ENGINEERING GROUP, INC. WILL NOT ASSUME ANY RESPONSIBILITY FOR ERRORS OR OMISSIONS, IF ANY, WHICH MIGHT OCCUR AND WHICH COULD HAVE BEEN AVOIDED, CORRECTED OR MITIGATED IF ASSOCIATED ENGINEERING GROUP, INC. HAD PERFORMED THE STAKING WORK.
9. 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 FINEST QUALITY ARE TO BE USED.
10. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE STATE OF CALIFORNIA WATER RESOURCES CONTROL BOARD (SWRCB), ORDER NO. 92-06-DNO, NPDES GENERAL PERMIT NO. CAS000002. THE CONTRACTOR SHALL IMPLEMENT AND MONITOR THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THE SWRCB REGULATIONS.
11. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL SAFETY REGULATIONS PERTAINING TO HIS OPERATIONS. HE SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY. THE CONTRACTOR'S ATTENTION IS CALLED TO THE REQUIREMENTS OF TITLE 8 OF THE CALIFORNIA ADMINISTRATIVE CODE, SUBCHAPTER 4, ARTICLE 6, "EXCAVATIONS, TRENCHES, EARTHWORK."
12. THE 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, THE ENGINEER AND SAN JOAQUIN COUNTY 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 ENGINEER.
13. APPROPRIATE DUST CONTROL SHALL BE PROVIDED FOR THE ALLEVIATION OR PREVENTION OF DUST NUISANCE AS REQUIRED BY THE COUNTY OF SAN JOAQUIN. AT THE CONTRACTOR'S EXPENSE, THE CONTRACTOR SHALL IMPLEMENT A DUST CONTROL PROGRAM AS PART OF THE MEASURES REQUIRED BY THE E.I.R. (CHAPTER 4.6) FOR AIR QUALITY CONTROL AND THE REQUIREMENTS OF PM 10 AND THE BEST AVAILABLE CONTROL MEASURES (BACM) APPROVED BY THE BOARD. THE PROGRAM SHALL INSURE THAT, AT THE PUBLIC WORKS DIRECTOR'S DISCRETION, A WATER VEHICLE FOR DUST CONTROL OPERATIONS IS KEPT READILY AVAILABLE AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE THE PUBLIC WORKS DIRECTOR AND BUILDING OFFICIAL WITH THE NAME AND TELEPHONE NUMBER OF THE PERSON DIRECTLY RESPONSIBLE FOR DUST CONTROL AND OPERATION OF THE WATER VEHICLE.
14. THE EXISTING UTILITIES ARE PLOTTED FROM AVAILABLE RECORDS OR FIELD LOCATIONS WHEN POSSIBLE. THE CONTRACTOR SHALL LOCATE AND PRESERVE ALL EXISTING FACILITIES INCLUDING GAS, WATER, IRRIGATION, POWER, TELEPHONE, SEWER OR OTHERS WHICH MAY BE PRESENT IN THE AREA OF CONSTRUCTION. THE RESPECTIVE UTILITY COMPANIES SHALL BE NOTIFIED PRIOR TO BEGINNING WORK.
15. THE EXISTING UTILITIES SHALL NOT BE INTERRUPTED UNTIL THE UTILITY COMPANY HAS PROVIDED ALTERNATIVE SERVICE FACILITIES. THE CONTRACTOR SHALL COOPERATE AND COORDINATE HIS WORK WITH THE APPROPRIATE AGENCIES AND UTILITY COMPANIES.
16. ALL CONSTRUCTION STAKING FOR GRADING SHALL BE DONE BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR.
17. ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH SAN JOAQUIN COUNTY STANDARD DETAILS. COMPACTION SHALL BE ACHIEVED BY MECHANICAL MEANS. NO FLOODING, PONDING, OR LETTING SHALL BE PERMITTED UNLESS APPROVED BY THE DIRECTOR OF PUBLIC WORKS IN WRITING.
18. TESTING: ALL INDEPENDENT LABORATORY INSPECTIONS CALLED FOR BY THE DIRECTOR OF PUBLIC WORKS WILL BE PAID FOR BY THE DEVELOPER OR CONTRACTOR.
19. IF, DURING CONSTRUCTION, ARCHAEOLOGICAL REMAINS ARE ENCOUNTERED, CONSTRUCTION IN THE VICINITY SHALL BE HALTED, AND AN ARCHAEOLOGIST CONSULTED, AND THE COUNTY PUBLIC WORKS DEPARTMENT NOTIFIED. IF, IN THE OPINION OF THE ARCHAEOLOGIST, THE REMAINS ARE SIGNIFICANT, MEASURES AS MAY BE REQUIRED BY THE DIRECTOR OF PUBLIC WORKS, SHALL BE TAKEN TO PROTECT THEM.
20. DISPOSAL OF WATER INTO THE SANITARY SEWER SYSTEM IS STRICTLY PROHIBITED.
21. THE CONTRACTOR SHALL MAINTAIN ALL STREETS, SIDEWALKS, AND ALL OTHER PUBLIC RIGHTS-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION THROUGHOUT THE COURSE OF CONSTRUCTION. ALL SPILLS OF SOIL, ROCK, CONSTRUCTION DEBRIS, ETC., SHALL BE REMOVED IMMEDIATELY FROM PUBLICLY OWNED PROPERTY. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC, SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION. THE CONTRACTOR SHALL PROVIDE FOR SAFE, UNOBSTRUCTED ACCESS TO PRIVATE PROPERTY ADJACENT TO WORK THROUGHOUT THE PERIOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE THE PUBLIC WORKS DEPARTMENT THE NAME AND TELEPHONE NUMBER OF PERSON AVAILABLE 24 HOURS A DAY IF PROBLEMS OR CONDITION IS NOT MET.
22. ALL TRASH, CONSTRUCTION DEBRIS AND MATERIALS SHALL BE CONTAINED WITHIN THE CONSTRUCTION AREA UNTIL OFF-SITE DISPOSAL CAN BE ARRANGED.
23. THE CONTRACTOR SHALL KEEP ADJOINING PUBLIC STREETS AND PARKING AREAS FREE AND CLEAN OF PROJECT DIRT, MUD AND MATERIALS DURING THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTIVE MEASURES AS DIRECTED BY THE PUBLIC WORKS INSPECTOR AT NO EXPENSE TO THE COUNTY.
24. THE APPLICANT SHALL ALERT CONSTRUCTION PERSONNEL OF THE POSSIBILITY OF BURIED CULTURAL RESOURCES, HUMAN REMAINS AND OTHER SUCH CULTURAL RESOURCES AND SHALL IMMEDIATELY COMPLY WITH ALL REQUIREMENTS CONTAINED IN THE EIR, INCLUDING THE STOPPAGE OF ALL WORK, NOTIFICATION OF THE NATIVE AMERICAN HERITAGE COMMISSION AND THE SAN JOAQUIN COUNTY CORONER, AS APPLICABLE.

## GRADING NOTES

25. ALL GRADING SHALL BE INSPECTED AND TESTED BY A QUALIFIED SOILS ENGINEER OR UNDER THEIR DIRECTION. THE SOILS ENGINEER SHALL INSPECT AND TEST THE PLACEMENT OF FILLS. THE SOILS ENGINEER SHALL SUBMIT A SOILS REPORT AND REQUIREMENTS AND WILL DETERMINE THE SUITABILITY OF ANY FILL MATERIAL. UPON COMPLETION OF GRADING OPERATIONS THE SOILS ENGINEER SHALL STATE IN A REPORT TO THE COUNTY OF SAN JOAQUIN THAT INSPECTIONS AND TESTS WERE MADE BY HIM OR UNDER HIS SUPERVISION AND THAT IN HIS OPINION ALL FILLS ARE COMPACTED TO THE REQUIRED RELATIVE DENSITY AND ARE ACCEPTABLE FOR THEIR INTENDED USE.
26. THE CONTRACTOR SHALL LIMIT TRAFFIC SPEEDS ON ANY UNPAVED SURFACES TO 15 MILES PER HOUR TO LOWER THE AMOUNT OF DUST CREATED.
27. THE CONTRACTOR SHALL SUSPEND EXCAVATION AND GRADING ACTIVITIES WHEN THE WINDS EXCEED 20 MILES PER HOUR.
28. DEVELOPER/CONTRACTOR'S WORK SHALL BE IN ACCORDANCE WITH THE S.V.A.P.C.D. GUIDELINES, INCLUDING S.V.A.P.C.D. REGULATION VIII AND IMPLEMENT CONTROL MEASURES BASED ON S.V.A.P.C.D.'S COMPLIANCE ASSISTANT BULLETIN FOR SHORT TERM IMPACTS. S.V.A.P.C.D. SHALL BE CONTACTED TO DISCUSS MITIGATION MEASURES AND IMPLEMENT MEASURES FROM TABLE 6-4 OF THE GUIDE FOR ASSESSING AND MITIGATING AIR QUALITY IMPACTS.
29. ALL GRADING SHALL COMPLY WITH THE CALIFORNIA BUILDING CODE, CHAPTER 18, APPENDIX C CHAPTER 13.
30. NO SLOPE SHALL BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL.
31. ACCESS TO THE PROJECT SITE FROM COUNTY OR CITY ROADS IS RESTRICTED EXCEPT AT TEMPORARY CONSTRUCTION ENTRANCES.

## EROSION CONTROL NOTES

32. ALL WORK TO BE DONE SHALL BE DONE IN ACCORDANCE WITH THE COUNTY OF SAN JOAQUIN STANDARDS AND THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION, CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMPs) MANUAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL SUBCONTRACTORS, AND SUPPLIERS ARE AWARE OF, AND IMPLEMENT ALL STORM WATER QUALITY MEASURES. FAILURE TO COMPLY WITH THE APPROVED CONSTRUCTIONS BMPs WILL RESULT IN THE ISSUANCE OF CORRECTION NOTICES, CITATIONS AND/OR A PROJECT STOP ORDER.
33. THIS EROSION CONTROL PLAN WAS PREPARED AS AN EXHIBIT TO THE STORM WATER POLLUTION PREVENTION PLAN (S.W.P.P.P.) FOR THE OAKWOOD LAKE SUBDIVISION, AS REQUIRED BY THE STATE WATER RESOURCES CONTROL BOARD. THE FACILITIES SHOWN ON THIS PLAN ARE DESIGNED TO CONTROL SEDIMENT DURING THE RAINY SEASON AFTER ROUGH GRADING HAS BEEN COMPLETED. EROSION CONTROL MEASURES ARE TO BE OPERABLE PRIOR TO OCTOBER 15TH THROUGH APRIL 15TH OF ANY YEAR THAT GRADING OPERATIONS HAVE LEFT AREAS UNPROTECTED FROM EROSION. NO GRADING WILL OCCUR BETWEEN OCTOBER 15TH AND APRIL 15TH, UNLESS AUTHORIZED BY THE DIRECTOR OF PUBLIC WORKS. DESIGN OF THESE FACILITIES MUST BE APPROVED OR UPDATED EACH YEAR PRIOR TO SEPTEMBER 30, AND SHALL BE SIGNED BY THE COUNTY ENGINEER. DAILY MAINTENANCE OF THESE FACILITIES SHALL BE MONITORED AND INSPECTED BY THE PROJECT COORDINATOR.
34. DURING THE RAINY SEASON ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIALS AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM.
35. CONSTRUCTION ENTRANCES CONSISTING OF AGGREGATE OR GEOTEXTILE FABRIC, AS PER THE DETAIL, SHALL BE PROVIDED AT EACH VEHICLE ACCESS POINT TO EXISTING PAVED ROADS.
36. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. REVISIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF THE DIRECTOR OF PUBLIC WORKS.
37. BORROW AREAS AND TEMPORARY STOCKPILES SHALL BE PROTECTED WITH APPROPRIATE EROSION CONTROL MEASURES TO THE SATISFACTION OF THE DIRECTOR OF PUBLIC WORKS.
38. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED. STATE AND LOCAL LAWS CONCERNING POLLUTION SHALL BE COMPLIED WITH.
39. PRIOR TO THE COMMENCEMENT OF ANY CLEARINGS, GRADING OR EXCAVATION, THE CONTRACTOR/DEVELOPER SHALL PROVIDE EVIDENCE THAT A NOTICE OF INTENT (NOI) HAS BEEN SUBMITTED TO THE CALIFORNIA STATE WATER RESOURCES CONTROL BOARD. A COPY OF THE SWPPP SHALL BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.

## SILT FENCES

40. IF POSSIBLE, SILT FENCE FABRIC SHALL BE CUT FROM A CONTINUOUS ROLL TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER FABRIC SHALL BE SPLICED AT A SUPPORT POST, WITH A MINIMUM OF 6" OVERLAP AND BOTH ENDS SECURELY FASTENED TO THE POST.
41. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
42. FILTER FABRIC SHALL BE NO. 2125 AS MANUFACTURED BY AMOCO CONSTRUCTION FABRICS, OR APPROVED EQUAL.

## SEEDING

43. SEED AND MULCH SHALL BE APPLIED BY SEPTEMBER 15TH TO ALL DISTURBED SLOPES STEEPER THAN 2% AND HIGHER THAN 3 FEET, AND TO ALL CUT AND FILL SLOPES WITHIN OR ADJACENT TO PUBLIC RIGHTS-OF-WAYS, OR AS DIRECTED BY THE DIRECTOR OF PUBLIC WORKS.
44. SEED AND FERTILIZER WILL BE APPLIED HYDRAULICALLY OR BY HAND AT THE RATES SPECIFIED BELOW. ON SLOPES STRAIN SHALL BE APPLIED BY BLOWER OR BY HAND AND ANCHORED IN PLACE BY PUNCHING.

ITEM	POUNDS PER ACRE
ZORRO ANNUAL FESCUE	10 LBS.
ROSE CLOVER	8 LBS.
HYDROMULCH FIBER	1500 LBS.
16-20-0 FERTILIZER (AMMONIUM PHOSPHATE)	300 LBS.
TACKIFIER	80 LBS.
45. IF PLANT GROWTH IS INADEQUATE FOR EROSION CONTROL, OVERSEED USING HALF THE RATE OF THE ORIGINAL APPLICATION. IF THE GROWTH IS OVER 60% DAMAGED, REPLANT USING THE ORIGINAL SPECIFICATIONS. THIS SHOULD BE DONE 14 TO 21 DAYS AFTER THE INITIAL PLANTING.
46. ALTERNATIVE EROSION CONTROL TECHNIQUES MUST BE USED IN THE EVENT ADEQUATE VEGETATION IS NOT ESTABLISHED PRIOR TO THE FIRST ANTICIPATED SIGNIFICANT RAIN EVENT OF THE SEASON.

## NOTICE OF INTENT

47. THE STATE WATER RESOURCES CONTROL BOARD HAS RECEIVED AND PROCESSED THE NOTICE OF INTENT TO COMPLY WITH THE TERMS OF THE GENERAL PERMIT TO DISCHARGE STORM WATER ASSOCIATED CONSTRUCTION ACTIVITY. THE MDID IDENTIFICATION NUMBER IS 5539C33003T, FOR ANY COMMUNICATIONS REGARDING THIS PERMIT.

# RECORD DRAWING

Corrections By: RD Canal  
 No Changes By: \_\_\_\_\_  
 Date: 3/12/2008  
 Any Person Using This Drawing Should Verify All information By inspecting The Site Of Work

**RD Canal**  
 RYAN CARREL, R.C.E. 61619  
 DAVE SKIDMORE, L.S. 7126



DRAWN BY: M.E.  
 DATE: OCT. 9, 2006  
 SCALE: NONE  
 DWG: 246PONDV4  
 CHECKED: K.M.  
 JOB #: 246L-06

SHEET  
2  
 OF  
5

**ASSOCIATED ENGINEERING, INC.**  
 Surveying • Design • Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875



TRACT NO. 3475  
**SPECIFICATIONS**  
 SEWER STORAGE POND NO. 4  
**OAKWOOD LAKE SUBDIVISION**  
 SAN JOAQUIN COUNTY CALIFORNIA



# SEWER POND GRADING PLANS

FOR

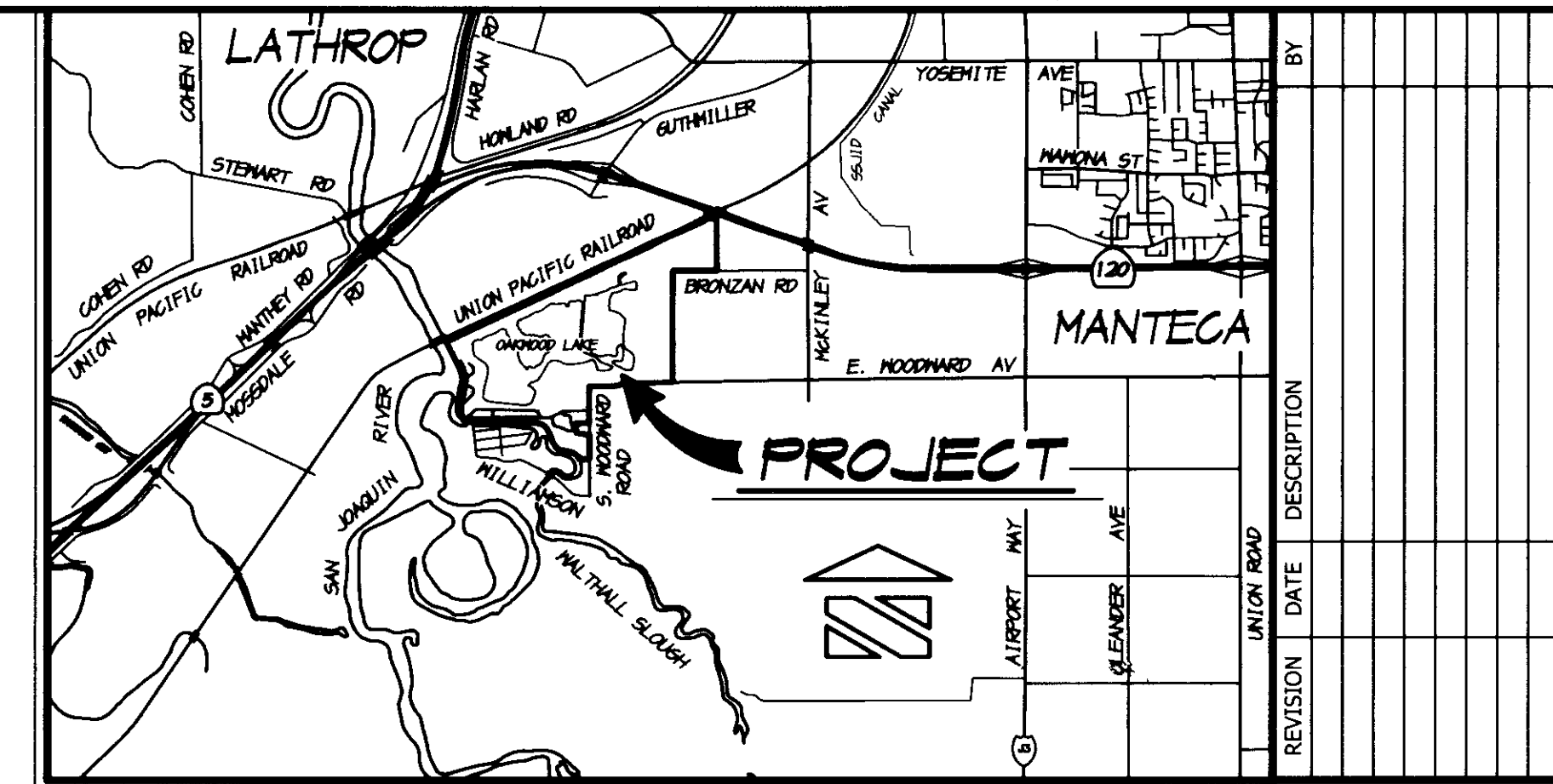
# OAKWOOD LAKE SUBDIVISION

## TRACT NO. 3475

SUBDIVISIONS OF SAN JOAQUIN COUNTY  
 MAJOR SUBDIVISION APPLICATION NO. PA-02-98  
 874 EAST WOODWARD AVENUE, MANTECA

BEING A DIVISION OF A PORTION OF SECTION 10, TOWNSHIP  
 2 SOUTH, RANGE 6 EAST, MOUNT DIABLO MERIDIAN

SAN JOAQUIN COUNTY CALIFORNIA



VICINITY MAP  
NO SCALE

### INDEX

SHEET NO.	DESCRIPTION
1	VICINITY MAP, INDEX & LEGEND
2	SPECIFICATIONS
3	SEWER POND GRADING PLAN
4	EROSION CONTROL PLAN
5	EROSION CONTROL DETAILS

### LEGEND

12.0	EXISTING GROUND ELEVATION
EP=12.10	EXISTING EDGE OF PAVEMENT ELEVATION
-15	EXISTING GROUND CONTOUR
⊙	EXISTING MONITORING WELL
SD	EXISTING STORM DRAIN LINE
FM	EXISTING SEWER FORCE MAIN OUTFALL
F5	EXISTING SEWER FORCE MAIN
W	EXISTING WATER LINE
⊙ FH	EXISTING FIRE HYDRANT
⊙	EXISTING GATE VALVE
PP Ⓞ	EXISTING POWER POLE
12.0	EXISTING CITY OF MANTECA SEWER OUTFALL LINE
12.0	PROPOSED FINISH DIRT ELEVATION

### BENCHMARK

CITY OF MANTECA BENCHMARK NO. 71, 2" BRASS CAP LOCATED 25 FEET ± NORTH OF THE NORTHEAST CORNER OF SECTION 11, TOWNSHIP 2 SOUTH, RANGE 6 EAST, MOUNT DIABLO MERIDIAN, AT THE INTERSECTION OF MCKINLEY AVENUE AND BRONZAN ROAD. ELEVATION = 16.703, U.S.G.S. DATUM

### RECORD DRAWING

Corrections By \_\_\_\_\_  
 No Changes By \_\_\_\_\_  
 Date 2/12/2008  
 Any Person Using This Drawing Should Verify  
 All Information By Inspecting The Site Of Work

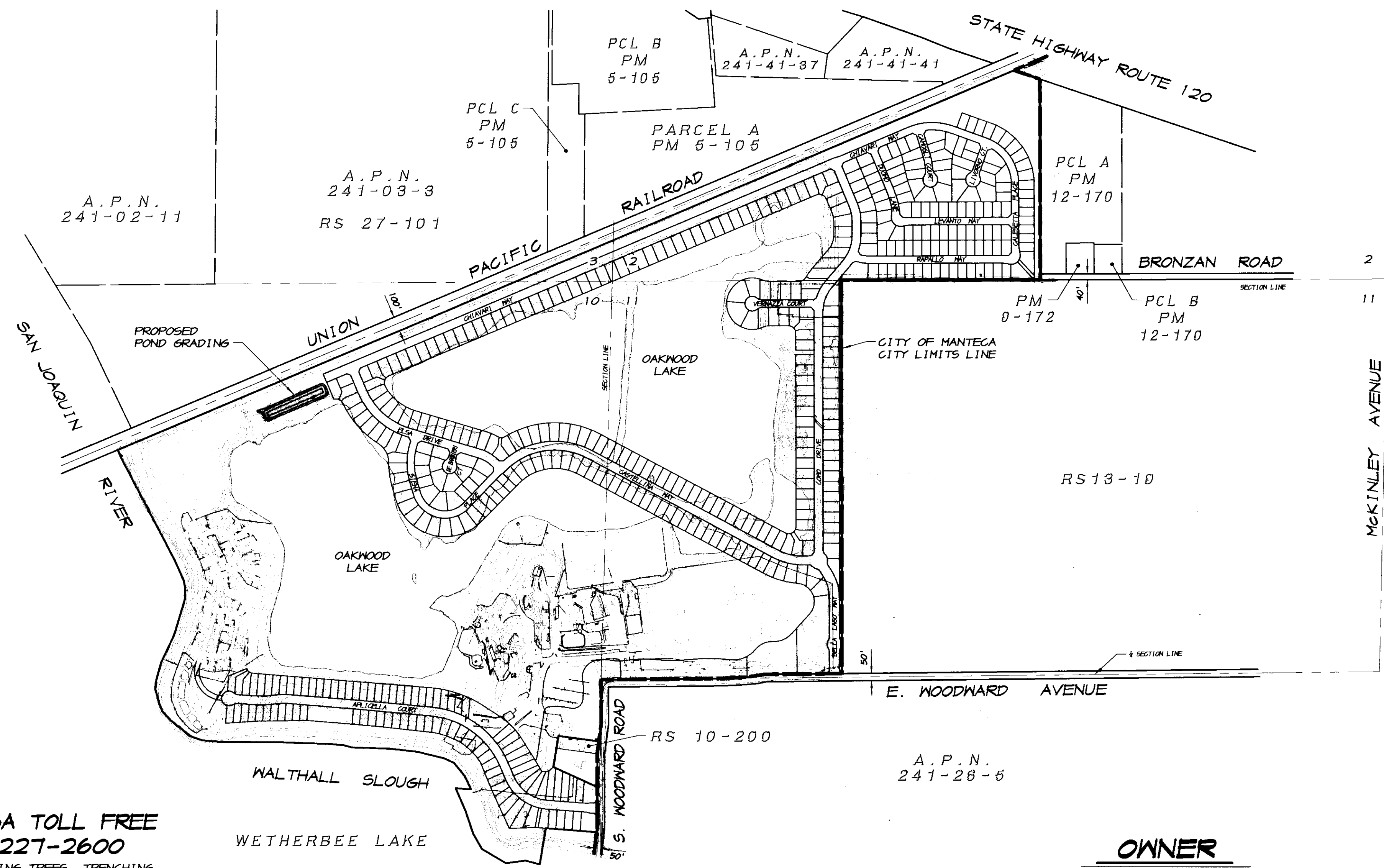


### UTILITY CONTACTS

SANITARY SEWER ~ OAKWOOD LAKE WATER DISTRICT  
 ATTN.: MIKE GILTON PH. (209) 634-6420  
 DOMESTIC WATER ~ OAKWOOD LAKE WATER DISTRICT  
 ATTN.: MIKE GILTON PH. (209) 634-6420  
 STORM DRAINAGE ~ OAKWOOD LAKE HOMEOWNERS ASSOC.  
 ATTN.: KEN FRITZ PH. (209) 957-0331  
 ELECTRIC ~ PACIFIC GAS AND ELECTRIC COMPANY  
 ATTN.: THOMAS SAMANIEGO PH. (209) 942-1793  
 GAS ~ PACIFIC GAS AND ELECTRIC COMPANY  
 ATTN.: THOMAS SAMANIEGO PH. (209) 942-1793  
 TELEPHONE ~ VERIZON COMMUNICATIONS  
 ATTN.: KATHY STROUT PH. (209) 294-0346  
 CABLE TELEVISION ~ COMCAST  
 ATTN.: GREG WILLIAMS PH. (209) 955-6543

### DISCLAIMER

ALL FACILITIES TO BE CONSTRUCTED WITH THIS PLAN SET WILL BE OWNED, OPERATED AND MAINTAINED BY THE OAKWOOD LAKE WATER DISTRICT AND HAVE BEEN DESIGNED TO THE DISTRICT STANDARDS AND REQUIREMENTS. THE FACILITIES DO NOT CONFORM TO THE SAN JOAQUIN COUNTY STANDARDS, THEREFORE THE COUNTY OF SAN JOAQUIN AND ITS EMPLOYEES WILL NOT BE LIABLE FOR SUCH FACILITIES IN ANY MANNER WHATSOEVER AND BE HELD HARMLESS AND INDEMNIFIED BY OAKWOOD LAKE WATER DISTRICT AND BECK DEVELOPMENT FOR SUCH.



PROJECT LAYOUT MAP  
SCALE: 1"=500'

**OWNER**  
 BECK DEVELOPMENT  
 3114 WEST HAMMER LANE  
 STOCKTON, CALIFORNIA 95204  
 PHONE (209) 957-0331  
 ATTN.: KEN FRITZ

CALL USA TOLL FREE  
 800-227-2600

BEFORE PLANTING TREES, TRENCHING, DIGGING FENCE POST HOLES, BLASTING, GRADING, EXCAVATING, DRILLING, PIPE PUSHING, ETC., CALL UNDERGROUND SERVICE ALERT FOR UNDERGROUND CLEARANCE.  
 USA WILL PROVIDE INFORMATION ABOUT, OR LOCATE AND MARK UNDERGROUND FACILITIES FOR YOU.

### GEOTECHNICAL REPORT

THESE IMPROVEMENT PLANS CONFORM TO THE APPROVED GEOTECHNICAL REPORT FOR THE OAKWOOD LAKE DEVELOPMENT LOCATED IN SAN JOAQUIN COUNTY, CALIFORNIA.

By: Ranburza 10-11-06  
 KLEINFELDER, INC. DATE

APPROVED BY THE DISTRICT ENGINEER OF THE OAKWOOD LAKE WATER DISTRICT, MANTECA, CALIFORNIA.

DATE: 10-10-06  
 BY: Michael Gilton  
 MICHAEL GILTON, R.C.E. 25853

COUNTY OF SAN JOAQUIN  
 DEPARTMENT OF PUBLIC WORKS

NOTE: APPROVAL FOR ROUGH GRADING ONLY.  
 Approved: Michael Gilton DATE: 10/16/06  
 SENIOR CIVIL ENGINEER  
 R.C.E. NO. 46533 EXP. DATE: 6/30/07



DATE: 10-10-06  
 DRAWN BY: M.E.  
 DATE: OCT. 9, 2006  
 SCALE: 1"=500'  
 DWG: 246POND/CV/R4  
 CHECKED: K.M.  
 JOB #: 246L-06

SHEET 1 OF 5

ASSOCIATED ENGINEERING, INC.  
 Surveying - Design - Planning  
 4206 TECHNOLOGY DRIVE  
 MODESTO, CALIFORNIA 95356  
 PH: (209) 545-3390 FAX: (209) 545-3875



TRACT NO. 3475  
 VICINITY MAP, INDEX & LEGEND  
 SEWER STORAGE POND NO. 4  
 OAKWOOD LAKE SUBDIVISION  
 SAN JOAQUIN COUNTY CALIFORNIA

SU 4494 4289