



LAS PILITAS ROCK QUARRY - MISCELLANEOUS DETAILS

HIGHWAY 58- APN 070-141-070 & 071

18+12.78 STORM DRAIN LINE

SCALE: 1"=40'

VERT. 1"=10'

THRUST BLOCK REQUIREMENTS

SCALE: 1"=4'

REINFORCEMENT: #4 bars at 150 mm spacing, #3 bars at 150 mm spacing.

VALVE ANCHOR & BOX

SCALE: 1"=4'

REINFORCEMENT: #4 bars at 150 mm spacing, #3 bars at 150 mm spacing.

REVISIONS

REV.	DESCRIPTION	DATE	APP.

TARTAGLIA ENGINEERS CIVIL ENGINEERS

P.O. BOX 1930, ASCADERO, CA 93423 - 909-466-5660

LAS PILITAS RESOURCES LLC

SLO COUNTY GENERAL NOTES

- NO CONSTRUCTION SHALL BE STARTED WITHOUT PLANS APPROVED BY THE COUNTY PLANNING DEPARTMENT AND DEPARTMENT OF PUBLIC WORKS. THE PLANNING DEPARTMENT SHALL BE NOTIFIED AT LEAST 24 HOURS PRIOR TO ANY CONSTRUCTION. PERMITTED WITHOUT APPROVED PLANS OR PRIOR NOTIFICATION TO THE PLANNING DEPARTMENT WILL BE REJECTED AND WILL BE AT THE CONTRACTORS' AND/OR OWNERS' RISK.
- ALL CONSTRUCTION WORK AND INSTALLATIONS SHALL CONFORM TO THE COUNTY OF SAN LUIS OBISPO STANDARDS AND SPECIFICATIONS, THE STATE SPECIFICATIONS AND THESE PLANS, AND ALL WORK SHALL BE SUBJECT TO THE APPROVAL OF THE DEPARTMENT OF PUBLIC WORKS.
- STATE SPECIFICATIONS SHALL MEAN THE STANDARD SPECIFICATIONS OF THE BUSINESS AND TRANSPORTATION AGENCY, DEPARTMENT OF TRANSPORTATION, STATE OF CALIFORNIA CURRENTLY IN EFFECT ON THE DATE OF COMMENCEMENT OF WORK, WHERE THE TERMS "STATE" OR "ENGINEER" ARE USED IN THE STATE SPECIFICATIONS, THEY SHALL BE CONSIDERED AS MEANING THE "COUNTY" OR "ENGINEER." WHERE THE TERM "COUNTY" IS USED HEREIN, IT SHALL MEAN EITHER THE SAN LUIS OBISPO COUNTY PUBLIC WORKS DEPARTMENT OR THE SAN LUIS OBISPO COUNTY PLANNING AND BUILDING DEPARTMENT.
- SOILS TESTS SHALL BE DONE IN ACCORDANCE WITH THE COUNTY STANDARDS AND SPECIFICATION SECTIONS 11-351.403 AND SECTION 11.351-404 AND THE REQUIREMENTS AS SET FORTH HEREIN. ALL TESTS MUST BE MADE WITHIN 15 DAYS PRIOR TO THE PLACING OF MATERIAL. THE TEST RESULTS SHALL CLEARLY INDICATE THE LOCATION AND SOURCE OF MATERIAL.
- COMPARISON TESTS SHALL BE MADE ON DEMONSTRATION CONSTRUCTION AND OTHER MATERIAL, AS SPECIFIED BY THE ENGINEER. SAID TESTS SHALL BE MADE PRIOR TO THE PLACING OF THE NEXT MATERIAL.
- EMBANKMENT MATERIAL SHALL BE COMPACTED TO THE REQUIREMENTS AS SET FORTH IN THESE PLANS.
- A REGISTERED CIVIL ENGINEER SHALL CERTIFY THAT THE IMPROVEMENTS WHEN COMPLETED ARE IN ACCORDANCE WITH THE REQUIREMENTS OF THESE PLANS. THE REGISTERED CIVIL ENGINEER SHALL BE PREPARED AFTER THE CONSTRUCTION COMPLETION OF AN ENGINEER CONFORMANCE REPORT AND PREPARING AS-BUILT PLANS WILL BE PRESENT WHEN THE FINAL INSPECTION IS MADE.
- AN INSPECTION AGREEMENT IS REQUIRED PRIOR TO THE START OF CONSTRUCTION.
- THE COUNTY INSPECTOR ACTING ON BEHALF OF THE COUNTY DEPARTMENT OF PUBLIC WORKS MAY REQUIRE REVISIONS IN THE PLANS TO SOLVE UNFORESEEN PROBLEMS THAT MAY ARISE IN THE FIELD. ALL REVISIONS SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER'S ENGINEER.
- ALL PROJECTS INVOLVING SITE DISTURBANCE OF ONE ACRE OR GREATER SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES). THE OWNER SHALL SUBMIT A NOTICE OF INTENT (NOI) TO COMPLY WITH THE GENERAL PERMIT FOR CONSTRUCTION ACTIVITY WITH THE REGIONAL WATER QUALITY CONTROL BOARD (RWQCB). THE OWNER SHALL PROVIDE THE COUNTY WITH THE WASTE DISCHARGE IDENTIFICATION NUMBER (WDID) (
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GENERAL NOTES

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- PUBLIC UTILITIES - THE DRAWINGS SHOW THE LOCATION OF VARIOUS PIPES, CONDUITS, AND OTHER STRUCTURES OF PUBLIC UTILITIES AS THEY ARE SUPPOSED TO EXIST WITHIN THE WORK AREA AND, NOTWITHSTANDING ERRORS OR OMISSIONS FROM THE DRAWINGS, THE CONTRACTOR SHALL ENDEAVOR TO PROTECT SUCH UNDERGROUND UTILITIES.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION ON THE PROPERTY, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO THE NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE COUNTY AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE THE ENGINEER.
- DEVIATIONS IN THE CONSTRUCTION WORK FROM THE ENGINEER'S DESIGN WITHOUT WRITTEN APPROVAL OF SUCH DEVIATION FROM THE ENGINEER SHALL SERVE TO RELIEVE THE ENGINEER FROM RESPONSIBILITY AND LIABILITY FROM THE RESULTS OF SUCH DEVIATIONS.
- INSPECTION BY THE COUNTY OR ITS AUTHORIZED AGENT SHALL BE REQUESTED BY THE ENGINEER IMMEDIATELY PRIOR TO COMMENCING CONSTRUCTION AND IMMEDIATELY AFTER THE COMPLETION OF EACH PHASE OF CONSTRUCTION.
- WAITING FOR ALL CONSTRUCTION WORK SHALL CONFORM TO THE PROVISIONS OF SECTION 11 OF THE STATE SPECIFICATIONS AND SHALL BE MADE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 11 OF THE STATE SPECIFICATIONS AND VARIOUS ITEMS OF WORK. WATER SHALL BE APPLIED AT THE LOCATIONS, IN THE AMOUNT AND DURING THE HOURS AS DIRECTED BY THE COUNTY'S AUTHORIZED REPRESENTATIVE.
- THE OWNER DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF ANY DATA SHOWN ON THE PLANS RELATIVE TO THE LOCATIONS, SIZES, DIMENSIONS, DEPTHS AND CHARACTER OF PIPES, CONDUITS, POLES OR ANY OTHER STRUCTURES OR UTILITIES LOCATED ABOVE GROUND OR UNDERGROUND.
- FINAL REPORTS FOR GRADING AND EARTHWORK SHALL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE UNIFORM BUILDING CODE, APPENDIX CHAPTER 33.
- PRIOR TO THE START OF ANY EXCAVATION IN THE PROJECT AREA THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) 1-800-462-2244 TO DETERMINE THE EXACT LOCATION OF EXISTING PIPES, CONDUITS AND UTILITIES WITHIN AND ADJACENT TO THE PROJECT AREA. CONTACT WITH USA SHALL OCCUR 2 TO 10 DAYS PRIOR TO THE START OF WORK.
- ALL GRADING OR OTHER CONSTRUCTION WORK OUTSIDE OF THE PROJECT LIMITS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE OFF-SITE PROPERTY OWNER.
- THE CONSTRUCTION CONTRACTOR SHALL MAINTAIN A CURRENT COMPLETE AND ACCURATE RECORD OF ALL CHANGES WHICH DEVIATE FROM THE ORIGINAL DESIGN DRAWINGS. NO CHANGES SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE COUNTY PUBLIC WORKS DEPARTMENT AND THE DESIGN ENGINEER.
- IN THE EVENT THAT THE CONTRACTOR NOTICES IRREGULARITIES IN THE LINE OR GRADE, HE SHALL BRING IT TO THE IMMEDIATE ATTENTION OF THE DESIGN ENGINEER AND THE COUNTY PUBLIC WORKS DEPARTMENT. IF HE FAILS TO DO SO, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ERROR IN THE GRADE AND ALTERATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE DEVELOPER AT HIS EXPENSE.
- ALL UTILITY RELOCATIONS AND/OR ALTERATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE DEVELOPER AT HIS EXPENSE.
- CONSTRUCTION GRADE STAKES SHALL BE SET BY A REGISTERED CIVIL ENGINEER OR A LICENSED LAND SURVEYOR REGISTERED IN THE STATE OF CALIFORNIA.
- NO OFFSITE CONSTRUCTION WILL BE PERMITTED UNTIL ALL CONSTRUCTION EASEMENTS AND AGREEMENTS ARE ACQUIRED BY THE OWNER/DEVELOPER.
- NO CONCENTRATED OFFSITE DRAINAGE FLOWS WILL BE PERMITTED UNTIL ALL DRAINAGE EASEMENTS HAVE BEEN ACQUIRED BY THE OWNER/DEVELOPER.
- SEPIC SYSTEM DESIGN AND LEACH FIELD LAYOUT FOR WASTE WATER DISPOSAL SHALL BE CONSIDERED AS INCLUDED IN AND A PART OF THE BUILDING IMPROVEMENT PLANS.
- EARTHWORK ESTIMATES
EXCAVATION: PHASE 1A PHASE 1B PHASE 2A PHASE 2B PHASE 3A PHASE 3B EQUAL PHASE
EMBANKMENT: (1472,353 CFS)/(721,979 CFS)/(653,564 CFS)/(448,532 CFS)/(1,641,601 CFS)/(1,289,092 CFS) (0 CFS).
TOTAL EXCAVATION: 3,224,121 CFS
TOTAL EMBANKMENT: 0 CFS.
NET EMBANKMENT: 62,499 CFS.
- A FINAL SURVEY REPORT BY A REGISTERED CIVIL ENGINEER SHALL BE SUBMITTED FOR REVIEW PRIOR TO THE FINAL INSPECTION OF THE IMPROVEMENTS.
- THE DEVELOPER'S ENGINEER, UPON COMPLETION OF THE IMPROVEMENTS, MUST CERTIFY TO THE COUNTY ENGINEER AND THE DISTRICT ENGINEER THAT THE IMPROVEMENTS ARE MADE IN ACCORDANCE WITH THE REQUIREMENTS OF EACH AGENCY.
- THE DEVELOPER SHALL APPLY FOR AN ENCROACHMENT PERMIT PRIOR TO CONNECTING TO DISTRICT FACILITIES.

STANDARD SAN LUIS OBISPO COUNTY GRADING AND DRAINAGE NOTES

- ALL GRADING AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS AND ADOPTED ORDINANCES OF THE COUNTY OF SAN LUIS OBISPO INCLUDING THE UNIFORM BUILDING CODE (CURRENT EDITION) AND STANDARDS PERTAINING THERETO.
- ALL CONTACT SURFACES BETWEEN ORIGINAL GROUND AND RECOMPACTED FILL MATERIAL SHALL BE EITHER HORIZONTAL OR VERTICAL (PER SECTION 19 CALTRANS STANDARD SPECIFICATIONS, CURRENT EDITION)
- FILL MATERIAL SHALL BE SPREAD IN LIFTS OF APPROXIMATELY 6 INCHES, MOISTENED OR DRIED TO NEAR OPTIMUM MOISTURE CONTENT AND RECOMPACTED TO THE COMPACTON REQUIREMENTS SET FORTH IN THESE PLANS AND/OR THE PROJECT SOILS REPORT. THE BEFORE BENS BROUGHT TO THE SITE. THE MATERIALS USED SHALL BE FREE OF ORGANIC MATTER AND OTHER DELETERIOUS MATERIALS.
- FIELD DENSITY TESTS SHALL BE MADE UNDER THE DIRECTION OF A REGISTERED CIVIL ENGINEER ON EACH COMPACTED LAYER. AT LEAST TWO (2) TESTS PER LAYER IN ISOLATED AREAS OR AS DIRECTED BY THE COUNTY'S CONSTRUCTION INSPECTOR.
- THE ENGINEER OF WORK MAY REQUIRE EROSION CONTROL DEVICE INSTALLATIONS WITHIN ANY DOWNSTREAM DRAINAGE FACILITY.
- A STANBY CREAM FOR EMERGENCY WORK SHALL BE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIAL SHALL BE AVAILABLE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
- STORM WATER DEVICES SHALL NOT BE MODIFIED WITHOUT THE APPROVAL OF THE ENGINEER.
- ALL PROTECTIVE DEVICES DIRECTED TO BE INSTALLED BY THE ENGINEER SHALL BE IN PLACE AT THE END OF EACH WORK DAY WHEN THE FIVE DAY RAIN PROBABILITY EXCEEDS 40%.
- POSITIVE DRAINAGE SHALL BE PROVIDED AWAY FROM ALL MAN MADE SLOPES. NO RUNOFF MAY BE CONCENTRATED.
- PERMANENT VEGETATION ON ALL CUT AND FILL SLOPES WITHIN THE CONSTRUCTION AREA SHALL BE ESTABLISHED.
- DUST CONTROL IS TO BE MAINTAINED BY AN APPROPRIATE MOISTURE CONTENT AT ALL TIMES UPON COMMENCEMENT OF WORK, INCLUDING PERIODS OF SUSPENSION OF WORK, UNTIL FINAL ACCEPTANCE OF THE PROJECT BY THE COUNTY.
- AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BASINS AND SEDIMENTATION BASIN AND THE BASIN FULDED BY.
- ALL CUT AND FILL SLOPES SHALL BE PREPARED FOR THE APPLICATION OF TYPE "D" EROSION CONTROL, CONFORMING TO THE PROVISIONS OF SECTION 20, "EROSION CONTROL AND HIGHWAY PLANNING," OF THE STATE STANDARD SPECIFICATIONS AND THESE SPECIAL PROVISIONS. SEE EROSION CONTROL REQUIREMENTS ON PLAN SHEET 19 FOR HYDRO-SEEDING.

GENERAL CONSTRUCTION NOTES

- THE ENGINEER OF WORK MAY REQUIRE TEMPORARY PROTECTIVE EROSION CONTROL DEVICES INSTALLATIONS WITHIN THE PROJECT VICINITY. EROSION CONTROL DEVICES AND STORM WATER CONTROL DEVICES SHALL NOT BE MOVED WITHOUT THE APPROVAL OF THE ENGINEER.
- CLEANING AND GRUBBING SHALL BE PERFORMED FOR ALL PROJECT RELATED WORK AND SHALL CONSIST OF MATERIALS WITHIN THE LIMITS AS INDICATED ON THE PLANS FOR REMOVAL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL STUMPS, ROOTS, SUBSURFACE STRUCTURES AND ANY OBSTACULAR MATERIAL DISPOSED OF THE PROJECT SITE.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-1.11 "PRESERVATION OF PROPERTY" AND SECTION 7-1.12 "RESPONSIBILITY FOR DAMAGE" OF THE STATE SPECIFICATIONS. EXISTING SITE IMPROVEMENTS, ON-SITE FACILITIES, UTILITIES, TREES AND PLANTS THAT ARE NOT TO BE REMOVED SHALL BE PROTECTED FROM INJURY OR DAMAGE RESULTING FROM THE CONTRACTOR'S OPERATIONS.
- ALL IMPROVEMENTS, GRADING AND INSTALLATION OF UTILITIES SHALL BE CONSTRUCTED AS SHOWN ON THESE PLANS AND IN ACCORDANCE WITH THE COUNTY OF SAN LUIS OBISPO STANDARD SPECIFICATIONS AND DRAWINGS DEPARTMENT OF TRANSPORTATION CURRENTLY IN EFFECT AND THE COUNTY OF SAN LUIS OBISPO GRADING AND DRAINAGE REQUIREMENTS.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 19-4-6 OF THE STATE SPECIFICATIONS REGARDING DEPTH INTO THE NATURAL SLOPE A MINIMUM DISTANCE OF 10 FEET HORIZONTALLY AS THE WORK IS BROUGHT UP IN LAYERS.
- ALL CUT AND FILL SLOPES SHALL BE TREATED TO MINIMIZE EROSION. EROSION CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS AS SET FORTH IN NOTE NO. 13 OF THE STANDARD SAN LUIS OBISPO COUNTY GRADING AND DRAINAGE NOTES. FOR PERMANENT EROSION CONTROL SEE REVEGETATION PLAN, SHEET 18.
- SHOULD THE CONTRACTOR PROPOSE TO ACCOMPLISH EROSION CONTROL BY AN ALTERNATE METHOD, HE SHALL SUBMIT HIS PROPOSAL IN WRITING TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF WORK. A SEPARATE LANDSCAPE PLAN WILL BE SUBMITTED TO THE COUNTY THAT WILL INDICATE FINAL LANDSCAPE PLANNING AS A PART OF THE PROJECT.
- WAITING FOR ALL CONSTRUCTION WORK SHALL CONFORM TO THE PROVISIONS OF SECTION 11 OF THE STATE STANDARD SPECIFICATIONS AND THESE SPECIFICATIONS. THE CONTRACTOR SHALL MAINTAIN ALL EQUIPMENT NECESSARY TO APPLY WATER AS REQUIRED FOR THE COMPLETION OF THE VARIOUS ITEMS OF WORK INCLUDING DUST CONTROL DURING CONSTRUCTION. WATER SHALL BE APPLIED AT THE LOCATIONS, IN THE AMOUNT AND DURING THE HOURS AS DIRECTED BY THE COUNTY'S AUTHORIZED REPRESENTATIVE.
- ROADWAY**
A) EXCAVATION FOR ROAD AND STREET CONSTRUCTION SHALL CONSIST OF ALL EXCAVATION INVOLVED IN GRADING AND ERECTING THE SPECIFIC AREAS IN THESE PLANS SHOWING THE PLANS AND SHALL INCLUDE THE EXCAVATION AND EMBANKMENT NECESSARY TO BRING THE EXISTENT MATERIAL TO THE GRADES AS SHOWN.
B) ADEQUATE BASE SHALL CONFORM TO THE REQUIREMENTS AS SET FORTH IN SECTION 28 OF THE STATE SPECIFICATIONS. ADEQUATE BASE SHALL BE CLASS 2, 3/4"-1" INCH MAXIMUM.
C) ASPHALT CONCRETE FOR ROADWAY PAVING SHALL BE TYPE B, 3/4" MAXIMUM, MEDIUM AND SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA STANDARD SPECIFICATIONS FOR ASPHALT CONCRETE AS REQUIRED BY THE COUNTY OF SAN LUIS OBISPO. THE CONTRACTOR SHALL OBTAIN A COPY OF THESE SPECIAL PROVISIONS FOR REVIEW PRIOR TO THE START OF CONSTRUCTION.
D) STREET SIGNS AND STOP SIGNS SHALL BE PLACED AT ALL LOCATIONS AS SHOWN ON THE PLANS. SIGNS SHALL CONFORM TO THE REQUIREMENTS OF SAN LUIS OBISPO COUNTY STD. DRAWING M-4.
E) EXCAVATING OF EXISTING PAVEMENT SHALL CONSIST OF CUTTING THE EXISTING PAVEMENT WITH AN APPROPRIE SAW TO A DEPTH OF 3 INCHES OR THE THICKNESS OF THE PAVEMENT WHICH DEER IS GREATER. SHOULD THE SAW CUT EDGES OF THE PAVEMENT BE DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL BE CUT THE PAVEMENT EDGES PRIOR TO ANY PAVING OPERATIONS.
- DRAINAGE**
A) STORM DRAIN INLETS SHALL BE INSTALLED AT THE LOCATIONS AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH COUNTY STANDARD DRAWING C-33, CALTRANS STD. D-73A AND THE DETAILS ON THE PLANS. FLARED END MANHOLE COVERS SHALL BE CLASS "X" AND SHALL MEET THE REQUIREMENTS SET FORTH IN SECTIONS 51, 73 AND 90 OF THE STATE SPECIFICATIONS.
B) STORM DRAIN PIPES SHALL BE INSTALLED AT THE LOCATIONS AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH COUNTY STD. DRAWING U-4 - PIPE TRENCH DETAIL. WATER TIGHT MANHOLE COVERS SHALL BE CLASS "X" AND APPROVED EQUAL. ALL JOINTS SHALL BE GASKETED.
C) AT THE LOCATIONS WHERE CUP PIPE IS JOINED WITH PLASTIC PIPE, THE JOINT SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL .
D) STORM DRAIN PIPES SHALL BE Laid IN A TRENCH EXCAVATED TO GRADE AND ALIGNED AS ESTABLISHED BY THE ENGINEER. EXCEPT BY SPECIAL PERMISSION OF THE ENGINEER, THE TRENCH SHALL NOT BE OPEN FOR A PERIOD OF MORE THAN 90 DAYS. ALL JOINTS SHALL BE WATER TIGHT.
E) THE DIVISION OF INDUSTRIAL SAFETY OF THE DEPARTMENT OF INDUSTRIAL RELATIONS OF THE STATE OF CALIFORNIA.

- THE WIDTH OF TRENCHES AT APPROXIMATELY THE LEVEL OF THE TOP OF THE PIPE TO BE INSTALLED SHALL BE A MAXIMUM OF THE OUTSIDE DIAMETER OF THE BARREL OF THE PIPE PLUS EIGHTY (80) INCHES. THE ABOVE CLEARANCES MAY BE INCREASED WITH THE APPROVAL OF THE ENGINEER TO ACCOMMODATE SHORING AND ALSO TO PROVIDE SPACE FOR MAKING CONNECTIONS AS REQUIRED. TRENCHES SHALL BE EXCAVATED TO THE DEPTHS REQUIRED FOR THE FOUNDATIONS OF PRELAYS AND APPURTEANCES SHOWN ON PLANS AND WHERE CONDITIONS MAKE IT NECESSARY TO SUCH DEPTH AS MAY BE DIRECTED BY THE ENGINEER. THE BOTTOM OF THE TRENCH SHALL BE UNIFORM BEARING FOR ITS ENTIRE LENGTH, EXCEPT FOR THE AREA NECESSARY FOR BELL HOLES. ALL ADJUSTMENT OF PIPE TO LINE AND GRADE MUST BE MADE BY SCAMPING AWAY OR FILING AND TAMPING. THE USE OF BLOCKS AS SUPPORT WILL NOT BE PERMITTED. AN ADDITIONAL DEPTH AND WIDTH SHALL BE HAND DUG AT JOINT OR BELL LOCATIONS OF SUFFICIENT DEPTH TO RELIEVE THE BELL OF ANY LOAD AND TO ALLOW AMPLE SPACE FOR MAKING THE JOINT.
- THE TRENCH SHALL BE EXCAVATED TO A DEPTH BELOW THE PIPE AS INDICATED ON THE PLANS. THE IMPROVED BACKFILL SHALL BE COMPACTED TO THE REQUIREMENTS SET FORTH HEREIN, TO THE DETAILS AND TO THE GRADES OF THE PIPE AS SHOWN ON THE PLANS.
- PROPER FACILITIES SHALL BE PROVIDED FOR STRIKING AND LOWERING SECTIONS OF PIPE INTO THE TRENCH. BACKFILL SHALL BE COMPACTED TO THE REQUIREMENTS AS SHOWN ON THE TRENCH DETAIL ON PLAN SHEET 11. THE BACKFILL SHALL BE DROPPED AND COMPACTED IN THE TRENCH UNIFORMLY ON BOTH SIDES OF THE PIPE FOR THE FULL WIDTH OF THE TRENCH TO AN ELEVATION AT LEAST TWELVE INCHES (12") ABOVE THE TOP OF THE PIPE IN ACCORDANCE WITH THE DETAILS AS SHOWN ON THE PLAN. THE BACKFILL MATERIAL SHALL BE CLEAN, FREE OF GRASS, ROOTS OR OTHER OBJECTIONABLE MATERIAL AND SHALL BE MOISTENED SUFFICIENTLY TO REDUCE THE REQUIRED COMPACTON AND THOROUGHLY COMPACTED BY AND OF MECHANICAL WAMPERS OR ANY OTHER MEANS NECESSARY TO ACHIEVE THE REQUIRED COMPACTON UNDER AND ON EACH SIDE OF THE PIPE.
- C) SLOPE PROTECTION (RIP RAP) SHALL BE PLACED AT THE LOCATIONS AS SHOWN ON THE PLANS AND SHALL CONFORM TO THE REQUIREMENTS OF SECTION 72 OF THE STATE SPECIFICATIONS. ALL ROCK SHALL BE INSTALLED TO THE REQUIREMENTS AS SET FORTH FOR METHOD "X" PLACEMENT. PRIOR TO THE PLACEMENT OF THE ROCK RIP-RAP, A NON-WOVEN GEOTEXTILE FABRIC, 8 OZ., CROWN) OR APPROVED EQUAL, SHALL BE PLACED UNDER THE ROCK. THE GEOTEXTILE FABRIC SHALL MEET THE REQUIREMENTS AS SET FORTH IN SECTION 88 OF THE CALIFORNIA STANDARD SPECIFICATIONS. THE FABRIC SHALL BE ANCHORED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

GENERAL CONSTRUCTION NOTES (CONTINUED)

- WATER SYSTEM**
A) PIPING FOR WATER MAIN SHALL BE POLYETHYLENE GLYCOL (PE) PIPE WITH BELL AND SPIGOT JOINTS, CLASS 200. PVC WATER MAIN PIPE SHALL CONFORM TO THE REQUIREMENTS AS SET FORTH HEREIN AND AWWA STANDARD C-900. NEW WATER MAIN DIAMETERS SHALL BE A MINIMUM OF 4 INCHES.
TRENCH EXCAVATION, PIPE INSTALLATION AND BACKFILL SHALL CONFORM TO THE REQUIREMENTS SPECIFIED FOR STORM DRAIN PIPE INSTALLATION IN ITEM "10" ABOVE AND COUNTY STD. DRAWING U-4 - PIPE TRENCH DETAIL. WHEN INSTALLING THE WATER MAIN PIPE THE PIPE SHALL BE Laid ON A PREPARED BEDDING OF SELECTED BACKFILL MATERIAL. THOROUGHLY COMPACTED AS SHOWN IN THE DETAILS IN THE PLANS AND SHALL BE Laid TIRE AND EVEN SO. THE BARREL OF THE PIPE WILL BE IN FULL BEARING FOR ITS ENTIRE LENGTH.
AFTER THE TRENCH HAS BEEN EXCAVATED AND PREPARED IN ACCORDANCE WITH THE PREVIOUS PARAGRAPHS, THE PIPE SHALL THEN BE CAREFULLY LOWERED INTO PLACE AND ADJUSTED ACCURATELY TO THE REQUIRED LINE AND GRADE. ANY BLOCKING USED TO SUPPORT THE PIPE DURING LAYING SHALL BE REMOVED AFTER SUFFICIENT BACKFILL HAS BEEN PLACED TO HOLD THE PIPE ON THE REQUIRED LINE AND GRADE. EACH SECTION OF PIPE SHALL HAVE A FIRM BEARING FOR ITS FULL LENGTH IN THE TRENCH.
POLYETHYLENE GLYCOL (PE) PIPE SHALL HAVE A RUBBER SEALING RING TYPE JOINT. RUBBER SEALING RING RETAINER GROOVES SHALL BE MANUFACTURED AS A PART OF THE INNER SURFACE OF THE BELL SO THAT THE JOINT IS ASSEMBLED. THE GASKET SHALL BE COMPRESSED TO FORM A WATER-TIGHT SEAL WITHOUT THE AID OF INTERNAL PRESSURES. SOLVENT-WEED JOINTS WILL NOT BE PERMITTED.
ALL FITTINGS AND VALVES SHALL BE OF THE SAME PORTITE AT THE BELL AS THE COUPLING USED WITH THE PIPE. BACKFILL PROCEDURES AND SPECIFICATIONS FOR IMPROVED BACKFILL SHALL MEET THE REQUIREMENTS OF ITEM "10" (BARRELS) HEREIN. THE CONTRACTOR SHALL TAKE EXTRA CARE WHEN STOCKPIPING AND INSTALLING PIPE TO KEEP THE BARREL FREE FROM DIRT AND DEBRIS. IF IT IS CONSIDERED NECESSARY BY THE ENGINEER, HE MAY DIRECT THE CONTRACTOR TO SWAB THE PIPE TO CLEAN IT. AT THE END OF EACH DAY'S WORK, EACH END OF THE PIPE WILL BE CLOSED BY MEANS OF A SPECIAL BULKHEAD OR BY OTHER MEANS APPROVED BY THE ENGINEER.
THRUST BLOCKS OF CLASS "B" CONCRETE SHALL BE CAST IN PLACE AT ALL BENDS OF 5 DEGREES OR MORE AND BEHIND EACH TEEL OR EACH CP
W-3.
->DOR SHALL PROVIDE THRUST BLOCKING AT IN LINE VALVE ANCHORS PER COUNTY STANDARD DRAWING W-3.
- ALL PIPE WORK, INCLUDING ALL JOINTS, CONNECTIONS AND FITTINGS, SHALL BE SUBJECTED BY THE CONTRACTOR, UNDER THE DIRECTION OF THE ENGINEER, TO A HYDROSTATIC PRESSURE TEST OF NOT LESS THAN 200 PSI, OR 1.5 TIMES THE (LESS) THAN 200 PSI PRESSURE, FOR A PERIOD OF NOT LESS THAN 2 HOURS. THE TEST SHALL BE CONDUCTED AFTER BACKFILLING HAS BEEN COMPLETED, BUT BEFORE PLACEMENT OF PERMANENT BACKFILL. ANY LEAKS, FAILURES, OR IMPROPER CONSTRUCTION REVEALED BY SUCH TEST SHALL BE PROMPTLY CORRECTED BY THE CONTRACTOR AT HIS SOLE EXPENSE, AND RETESTED UNTIL ALL LEAKAGE HAS BEEN STOPPED. THE ALLOWABLE LEAKAGE SHALL NOT EXCEED THE FOLLOWING: 4" PIPE - - - - 0.37 GALLONS/1000 FT./HR. PRESSURE TESTS SHALL NOT BE MADE UNTIL THE PIPE HAS BEEN BACKFILLED AS INDICATED IN THE PRECEDING PARAGRAPHS. PRESSURE TESTS SHALL BE PERFORMED WITHIN FIFTEEN (15) DAYS AFTER THE PIPE HAS BEEN REACTION BAKING HAS BEEN CAST WITH STANDARD CONCRETE. THE DURATION OF THE TEST SHALL BE TWO (2) HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND OTHER DEPARTMENT.
- DURING THE FILLING OF THE PIPE AND BEFORE THE APPLICATION OF THE SPECIFIED TEST PRESSURE, ALL AIR AND OTHER GASES SHALL BE REMOVED FROM THE PIPE. THE TEST PRESSURE SHALL BE 200 PSI, OR 50 PSI GREATER THAN THE RATED PRESSURE OF THE PIPE (MEASURED AT THE LOWEST ELEVATION OF THE SYSTEM), WHICHEVER IS GREATER. THE PRESSURE TESTS WILL BE CONDUCTED AFTER BACKFILLING HAS BEEN COMPLETED, BUT BEFORE PLACEMENT OF PERMANENT BACKFILL. ANY LEAKS, FAILURES, OR IMPROPER CONSTRUCTION REVEALED BY SUCH TEST SHALL BE PROMPTLY CORRECTED BY THE CONTRACTOR AT HIS SOLE EXPENSE, AND RETESTED UNTIL ALL LEAKAGE HAS BEEN STOPPED. THE ALLOWABLE LEAKAGE SHALL NOT EXCEED THE FOLLOWING: 4" PIPE - - - - 0.37 GALLONS/1000 FT./HR. PRESSURE TESTS SHALL NOT BE MADE UNTIL THE PIPE HAS BEEN BACKFILLED AS INDICATED IN THE PRECEDING PARAGRAPHS. PRESSURE TESTS SHALL BE PERFORMED WITHIN FIFTEEN (15) DAYS AFTER THE PIPE HAS BEEN REACTION BAKING HAS BEEN CAST WITH STANDARD CONCRETE. THE DURATION OF THE TEST SHALL BE TWO (2) HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND OTHER DEPARTMENT.
- A) PRESSURE AND LEAK TESTING. AFTER THE PIPELINE HAS BEEN Laid, IT SHALL BE FILLED WITH WATER UNDER THE TEST PRESSURE. THE TEST PRESSURE SHALL BE 200 PSI, OR 50 PSI GREATER THAN THE RATED PRESSURE OF THE PIPE (MEASURED AT THE LOWEST ELEVATION OF THE SYSTEM), WHICHEVER IS GREATER. THE PRESSURE TESTS WILL BE CONDUCTED AFTER BACKFILLING HAS BEEN COMPLETED, BUT BEFORE PLACEMENT OF PERMANENT BACKFILL. ANY LEAKS, FAILURES, OR IMPROPER CONSTRUCTION REVEALED BY SUCH TEST SHALL BE PROMPTLY CORRECTED BY THE CONTRACTOR AT HIS SOLE EXPENSE, AND RETESTED UNTIL ALL LEAKAGE HAS BEEN STOPPED. THE ALLOWABLE LEAKAGE SHALL NOT EXCEED THE FOLLOWING: 4" PIPE - - - - 0.37 GALLONS/1000 FT./HR. PRESSURE TESTS SHALL NOT BE MADE UNTIL THE PIPE HAS BEEN BACKFILLED AS INDICATED IN THE PRECEDING PARAGRAPHS. PRESSURE TESTS SHALL BE PERFORMED WITHIN FIFTEEN (15) DAYS AFTER THE PIPE HAS BEEN REACTION BAKING HAS BEEN CAST WITH STANDARD CONCRETE. THE DURATION OF THE TEST SHALL BE TWO (2) HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND OTHER DEPARTMENT.
- B) ALL WATER VALVES SHALL BE WELLETTER RESILIENT SEAT GATE VALVES, EPDM-LINED A-2980-26 OR EQUAL. ALL VALVES SHALL BE TURN BODY WITH "O" RING SEALS, BRONZE MOUNTED, NONRISING STEM TYPE, NOT OPERATED, LEFT TURN TO OPEN.
VALUE BOXES SHALL BE 10-INCH CONCRETE WITH CAST IRON COVER, EMBOSSED WITH "WATER" AND SHALL BE BROOKS 3-R1 OR APPROVED EQUAL.

- 6.2.3 TESTING** (SAN LUIS OBISPO COUNTY DEPARTMENT OF PUBLIC WORKS)
PRESSURE AND LEAK TESTING. AFTER THE PIPELINE HAS BEEN Laid, IT SHALL BE FILLED WITH WATER UNDER THE TEST PRESSURE. THE TEST PRESSURE SHALL BE 200 PSI, OR 50 PSI GREATER THAN THE RATED PRESSURE OF THE PIPE (MEASURED AT THE LOWEST ELEVATION OF THE SYSTEM), WHICHEVER IS GREATER. THE PRESSURE TESTS WILL BE CONDUCTED AFTER BACKFILLING HAS BEEN COMPLETED, BUT BEFORE PLACEMENT OF PERMANENT BACKFILL. ANY LEAKS, FAILURES, OR IMPROPER CONSTRUCTION REVEALED BY SUCH TEST SHALL BE PROMPTLY CORRECTED BY THE CONTRACTOR AT HIS SOLE EXPENSE, AND RETESTED UNTIL ALL LEAKAGE HAS BEEN STOPPED. THE ALLOWABLE LEAKAGE SHALL NOT EXCEED THE FOLLOWING: 4" PIPE - - - - 0.37 GALLONS/1000 FT./HR. PRESSURE TESTS SHALL NOT BE MADE UNTIL THE PIPE HAS BEEN BACKFILLED AS INDICATED IN THE PRECEDING PARAGRAPHS. PRESSURE TESTS SHALL BE PERFORMED WITHIN FIFTEEN (15) DAYS AFTER THE PIPE HAS BEEN REACTION BAKING HAS BEEN CAST WITH STANDARD CONCRETE. THE DURATION OF THE TEST SHALL BE TWO (2) HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING UTILITIES AND OTHER DEPARTMENT.
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- NO PIPE INSTALLATION SHALL BE ACCEPTED UNTIL OR UNLESS THE LEAKAGE FOR THE SECTION OF THE LINE BEING TESTED IS GREATER THAN THAT PERMITTED. THE DEFECTIVE JOINTS SHALL BE LOCATED AND REPAIRED IN ANY SECTION IS SMALLER THAN 20 FEET, FOR WHICH THE DATA IN THE TABLE APPLIES. IF THE TEST LEAKAGE UNTIL THE LEAKAGE IS WITHIN THE PERMITTED ALLOWANCE.

WATER STORAGE TANKS

DESIGN OF WATER STORAGE TANKS AND FOOTINGS WILL BE PROVIDED BY THE TANK MANUFACTURER.

TARTAGLIA ENGINEERING PUBLIC IMPROVEMENT PLANS FOR LAS PILITAS ROCK QUARRY	
P. O. BOX 1930, ATASCADERO, CA. 93423 - 805-466-5660	
NOTES	

DESIGN/DRAWN	COUNTY PLAN CHECK	APPROVED FOR COUNTY REQUIREMENTS	DATE
TCE			
JOB NO. 08-23	COUNTY W.D. NO. xxx	DEVELOPMENT SERVICES ENGINEER R.C.E. 24084	DATE
CALIFORNIA COORDINATES		SHEET # 14	OF # 20
N 706		E 1239	



LAS PILITAS
RESOURCES LLC