ARROYO GRANDE GAGE FISH PASSAGE IMPROVEMENT PROJECT

100% SUBMITTAL

PREPARED AT THE REQUEST OF: CREEK LANDS CONSERVATION

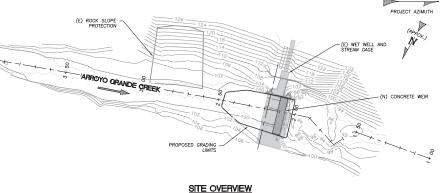
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PROJECT DESCRIPTION

PROPOSED PROJECT IN EXISTING STREAM GAGE SITE ON ARROYO GRANDE CREEK WITH THE GOAL OF IMPROVING FISH PASSAGE CONDITIONS. STREAM GAGING EQUIPMENT WILL BUPGRADED AND INCORPORATED INTO THE COUNTY "ALERT SYSTEM".

CONSTRUCTION ACTIVITY
CONSTRUCTION INCLUDES TEMPORARY FLOW DIVERSION,
IN-CHAINNEL GRADING AND DEMOLITION, AND CONSTRUCTION OF A
NEW CONCRETE WEIR.



ABBREVIATIONS HE-VIATIONS

SASSESSOR'S PARCEL NUMBER
APPROXIMATE
BEST MANAGEMENT PRACTICES
CONCRETE
CREEK
FORD
DAMMER
BUSTIMO
EACH PACE
EXISTING
EACH PACE
EXISTING
EACH PACE
EXISTING
EACH PACE
EACH WAY
FINISHED GRADE
EACH WAY
FINISHED GRADE
GALVANIZED
HUMANO FEET
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MINIMUM LINEAR FEE!
MINIMUM
NEW
NOT IN CONTRACT
NOT TO SCALE
ON CENTER
RIGID METAL CONDUIT

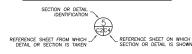
SURVEY NOTES

- ELEVATION DATUM NGVD 1929: THE BENCHMARK FOR THIS SURVEY IS POINT #4, A USGS BRONZE DISC SET IN THE TIP OF CONCRETE BLOCK SUPPORTING THE LANDWARD END OF THE WALKWAY LEADING TO THE GAGE SHELTER WITH THE ELEVATION: 127.92
- 2. BASIS OF BEARINGS: LOCAL ASSUMED AZIMUTH (NOO'00'00"E) BASED ON THE ALIGNMENT BETWEEN POINTS $\sharp 1$ AND $\sharp 2$. THE TWO POINTS ARE LOCATED IN THE CENTER OF MYRTLE AVENUE.
- TOPOGRAPHIC MAPPING WAS PERFORMED BY SH+G ENGINEERING ON APRIL 11TH AND 12TH, 2007.
- CONTOUR INTERVAL IS TWO FOOT. ELEVATIONS AND DISTANCES SHOWN ARE IN DECIMAL FEET, EXCEPT TREE DIMENSIONS, WHICH ARE SHOWN IN INCHES.
- 6. UNDERGROUND UTILITIES WERE NOT LOCATED.
- THIS IS NOT A BOUNDARY SURVEY. PROPERTY LINES WERE COMPILED FROM RECORD INFORMATION. THE LOCATION OF THESE LINES IS SUBJECT TO CHANGE, PENDING THE RESULTS OF A COMPLETE BOUNDARY SURVEY.
- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE CURRENT EDITION OF THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS, ISSUED BY THE DEPARTMENT OF TRANSPORTATION (HEREATER REFERRED TO AS "STANDARD SPECIFICATIONS").
- THESE DESIGNS ARE INCOMPLETE WITHOUT THE FINAL STAMPED TECHNICAL SPECIFICATIONS PREPARED BY WATERWAYS CONSULTING, INC. REFER TO TECHNICAL SPECIFICATIONS FOR DETAILS NOT SHOWN HEREON.



VICINITY MAP

SECTION AND DETAIL CONVENTION



* CALL BEFORE YOU DIG * CONTACT UNDERGROUND SERVICE ALERT (USA) PRIOR TO ANY CONSTRUCTION WORK 1-800-332-2344 WATERWAY



PREPARED AT THE REQUEST CREEK LANDS CONSERVATION

> SHEET COVER

ARROYO GRANDE GAGE FISH PASSAGE IMPROVEMENT PROJECT 100% SUBMITTAL

DESIGNED BY: DRAWN BY: CHECKED BY: DATE: 1/ JOB NO.: 0	MWV BM2 MWV 23/2 7-580
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- NOTIFY THE ENGINEER AT LEAST 96 HOURS PRIOR TO CONSTRUCTION. THE ENGINEER OR A DESIGNATED REPRESENTATIVE SHALL OBSERVE THE CONSTRUCTION PROCESS, AS NECESSARY TO ENSURE PROPER INSTALLATION PROCEDURES.
- 2. EXISTING UNDERGROUND UTILITY LOCATIONS:
 - A. CALL UNDERGROUND SERVICE ALERT (1-800-642-2444) TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO
 - B. PRIOR TO BEGINNING WORK, CONTACT ALL UTILITIES COMPANIES WITH REGARD TO WORKING OVER, UNDER, OR AROUND EXISTING FACILITIES AND TO OBTAIN INFORMATION REGARDING RESTRICTIONS THAT ARE REQUIRED TO PREVENT DAMAGE TO THE FACILITIES.
 - E DISTRUC UTILITY LOCATIONS SHOWN ARE COMPRIED FROM INFORMATION SUPPLIED BY THE APPROPRIATE UTILITY AGENCIES AND FROM RELD MEASUREMENTS TO ADDRESS CONDITIONS FRATIERS REDULT VISIBLE AT THE TIME OF SURVEY, LOCATIONS SHOWN ARE APPROXIMATE THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE DIMENSIONS, SIZES, METRICALS, LOCATIONS, AND DEPTH OF UNDERGROCOUN UTILITIES.
 - D. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE LOCATION AND/OR PROTECTION OF ALL EXISTING AND PROPOSED PIPING, UTILITIES, TRAFFIC SIGNAL EQUIPMENT (BOTH ABOVE GROUND AND BELOW GROUND), STRUCTURES, AND ALI OTHER EXISTING IMPROVEMENTS THROUGHOUT CONSTRUCTION.
 - E. PRIOR TO COMMENCING FABRICATION OR CONSTRUCTION, DISCOVER OR VERIFY THE ACTUAL DIMENSIONS, SIZES, MATERIALS, LOCATIONS, AND ELEVATIONS OF ALL EXISTING UTILITIES AND POTHOLE THOSE AREAS WHERE POTENTIAL CONFLICTS ARE LIKELY OR DATA IS OTHERWISE INCOMPLETE.
 - F. TAKE APPROPRIATE MEASURES TO PROTECT EXISTING UTILITIES DURING CONSTRUCTION OPERATIONS. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE COST OF REPAIR/REPLACEMENT OF ANY EXISTING UTILITIES DAMAGED DURING CONSTRUCTION.
 - G. UPON LEARNING OF THE EXISTENCE AND/OR LOCATIONS OF ANY UNDERGROUND FACILITIES NOT SHOWN OR SHOWN INACCURATELY ON THE PLANS OR NOT PROPERLY MARKED BY THE UTILITY OWNER, IMMEDIATELY NOTIFY THE UTILITY OWNER AND THE CITY BY TELEPHONE AND IN WITHING.
 - H. UTILITY RELOCATIONS REQUIRED FOR THE CONSTRUCTION OF THE PROJECT FACILITIES WILL BE PERFORMED BY THE UTILITY COMPANY, UNLESS OTHERWISE NOTED.
- 3. IF DISCREPANCIES ARE DISCOVERED BETWEEN THE CONDITIONS EXISTING IN THE FIELD AND THE INFORMATION SHOWN ON THESE DRAWINGS, NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- 4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE FULLY INFORMED OF AND TO COMPLY WITH ALL LAWS, ORDINANCES, CODES, REQUIREMENTS AND STANDARDS WHICH IN ANY MANNER AFFECT THE COURSE OF CONSTRUCTION OF THIS PROJECT, THOSE ENGAGED OR EMPLOYED IN THE CONSTRUCTION AND THE MATERIALS USED IN THE CONSTRUCTION.
- ALL TESTS, INSPECTIONS, SPECIAL OR OTHERWISE, THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR THESE PLANS, SHALL BE DONE BY AN INDEPEDIDENT INSPECTION COMPANY. JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE REQUIRED TESTS AND INSPECTIONS ARE PERFORMED.
- 6. PROJECT SCHEDULE: PRIOR TO COMMENCEMENT OF WORK, SUBMIT TO THE ENGINEER FOR REVIEW AND APPROVAL A DETAILED CONSTRUCTION SCHEDULE. DO NOT BEGIN ANY CONSTRUCTION WORK UNTIL THE PROJECT SCHEDULE AND WORK PLAN IS APPROVED BY THE ENGINEER. ALL CONSTRUCTION SHALL BE CLOSELY COORDINATED WITH THE ENGINEER SO THAT THE QUALITY OF WORK CAN BE CHECKED FOR APPROVAL. PURSUE WORK IN A CONTINUOUS AND DILIGENT MANNER TO ENSURE A TMILETY COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN, PERMITTING, INSTALLATION, AND MAINTENANCE OF ANY AND ALL TRAFFIC CONTROL MEASURES DEEMED NECESSARY.
- THE CONTRICTOR SHALL BE RESPONSIBLE FOR GENERAL SAFETY DURING CONSTRUCTION. ALL WORK SHALL CONFORM TO PERTINENT SAFTY REGULATIONS, AND CODES, THE CONTRICTOR SHALL BE SOLICELY, AND COMPLETED RESPONSIBLE OF FURNISHING, INSTALLING, AND MAINTAINING ALL WARNING SIGNS AND DEVICES NECESSARY TO SAFEGLARD THE GENERAL PUBLIC AND THE WORK, AND PROVIDE FOR THE PROPER AND SAFE ROUTING OF VEHICULAR AND PEDESTRAIN TRAFFIC DURING THE PERFORMANCE OF THE WORK, THE CONTRACTOR SHALL BE SOLICELY AND COMPLETELY RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE PROVISIONS OF CHAIN THE CONSTRUCTION PRACTICES FOR ALL BEPLOYEES DIRECTLY ENGAGED IN THE CONSTRUCTION OF THIS PROJECT.
- O CONSTRUCTION CONTRACTOR AGRESS THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SPETT OF ALL PERSONS AND PROPERTY. THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTRIDUCISLY AND NOT BE LIMITED TO MORNAL MORKING HOURS, AND STROM ANY AND ALL LIBERLY, REAL OF ALLESS AND STROM ANY AND ALL LIBERLY, REAL OF ALLESS AND STROM ANY AND ALL LIBERLY, REAL OF ALLESS AND STROM ANY AND ALL LIBERLY, REAL OF ALLESS AND STROM ANY AND ALL LIBERLY, REAL OF ALLESS AND STROM ANY AND ALL LIBERLY, REAL OF ALLESS AND STROM ANY AND ALLESS AND STROM ANY AND ALL MIGHTLY REAL OF ALLESS AND ALLESS AND STROM ANY AND ALL MIGHTLY ARISING FROM THE SOLE NEGLECKE OF DESIGN PROFESSIONAL NEITHER THE PROFESSIONAL ACTIVITIES OF CONSULTANT NOT THE PRESENCE OF CONSULTANT AT A CONSTRUCTION STEE SHALL RELIEVE THE CONTRACTOR AND ITS SUBCONTRACTORS OF THEIR RESPONSIBILITIES INCLIDING, BUT NOT LIMITED TO, CONSTRUCTION OF THE PRESENCE OF CONSULTANT SO OF PROJECTIONS NECESSARY FOR WITH THE CONTRACT DOCUMENTS AND APPLICABLE HEALTH OR SAFETY REQUIREMENTS OF ANY REQUIATORY AGENCY OR OF STATE LAW.
- 10. MAINTAIN A CURRENT, COMPLETE, AND ACCURATE RECORD OF ALL AS-BUILT DEVIATIONS FROM THE CONSTRUCTION SHOWN ON THESE DRAWINGS AND SPECIFICATIONS, FOR THE PURPOSE OF PROVIDING THE ENGINEER OF RECORD BASIS FOR THE PREPARATION OF RECORD DRAWINGS.
- 11. MAINTAIN THE SITE IN A NEAT AND ORDERLY MANNER THROUGHOUT THE CONSTRUCTION PROCESS. STORE ALL MATERIALS
- 12. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE FILLY INFORMED OF AND TO COMEN' WITH ALL PERMIT CONDITIONS, LAWS, ORDINANCES, CODES, REQUIREMENTS AND STANDARDS, WHICH IN ANY MANDER AFFECT THE COURSE OF CONSTRUCTION OF THIS PROJECT, THOSE ENGAGED OR EMPLOYED IN THE CONSTRUCTION AND THE MATERIALS USED IN THE CONSTRUCTION.
- PROVIDE, AT CONTRACTOR'S SOLE EXPENSE, ALL MATERIALS, LABOR AND EQUIPMENT REQUIRED TO COMPLY WITH ALL APPLICABLE PERMIT CONDITIONS AND REQUIREMENTS.
- 14. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND LAYOUT, UNLESS OTHERWISE SPECIFIED
- 15. FIELD INSPECTIONS OR THE PROVISION OF CONSTRUCTION STAKES DO NOT RELIEVE THE CONTRACTOR OF THEIR SOLE RESPONSIBILITY FOR ESTABLISHING ACCURATE CONSTRUCTED LINES AND GRADES, AS SPECIFIED.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION AND PRESERVATION OF ALL SURVEY MONUMENTS OR PROPERTY CORNERS, DISTURBED MONUMENTS SHALL BE RESTORED BACK TO THEIR ORIGINAL LOCATION AND SHALL BE CERTIFIED BY A REGISTERED CIVIL ENGINEER OR LAND SURVEYOR AT THE SOLE EXPENSE OF THE CONTRACTOR.
- 17. CONTRACTOR IS REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THIS REQUIREMENT SHALL BE WADE TO APPLY CONTINUOUSLY, AND NOT BE LUMBED TO NORMAL WORKING HOUSE.
- 18. THE CONTRACTOR SHALL CONFORM TO THE RULES AND REGULATIONS OF THE CONSTRUCTION SAFETY ORDERS OF THE CALIFORNIA DIVISION OF OCCUPATIONAL SAFETY AND HEALTH PERTAINING TO EXCAVATION AND TRENCHES THE CALIFORNIA CODE OF REGULATIONS TITLE 8, SUBCHAPTER 4 CONSTRUCTION SAFETY ORDERS, ARTICLE 6 EXCAVATION.

EARTHWORK/GRADING NOTES

1. GRADING SUMMARY: TOTAL CUT VOLUME = TOTAL FILL VOLUME =

THE ABOVE QUANTITIES ARE APPROXIMATE IN-PLACE VOLUMES CALCULATED AS THE DIFFERENCE BETWEEN EXISTING GROUND AND THE PROPOSED FINISH GRADE, PREPARED FOR PERMITTING CROWN AND THE PROPOSED FINISH GRADE, PREPARED FOR PERMITTING SHOULD AND ADDRESS OF THE STREET, PLANTIONS CAN CAUSE AND ADDRESS OF THE STREET, AND ADDRESS OF

THE CONTRACTOR SHALL PERFORM AN INDEPENDENT EARTHWORK ESTIMATE FOR THE PURPOSE OF PREPARING BID PRICES FOR EARTHWORK. THE BID PRICE SHALL INCLUDE COSTS FOR ANY INDEXESSARY IMPORT AND PLACEMENT OF EARTH MATERIALS OR THE EXPORT AND PROPER DISPOSAL OF EXCESS OR UNSUITABLE EARTH MATERIALS.

- 2. PRIOR TO COMMENCING WORK, PROTECT ALL SENSITIVE AREAS TO REMAIN UNDISTURBED WITH TEMPORARY FENCING, AS SHOWN ON THE DRAWINGS, AS SPECIFIED, OR AS DIRECTED BY THE
- 3. DO NOT DISTRURB AREAS OUTSIDE OF THE DESIGNATED LIMITS OF DISTURBANCE, UNLESS AUTHORIZED IN WRITING BY THE ENSINEER. THE COST OF ALL ADDITIONAL WORK ASSOCIATED WITH RESTORATION AND REVEGETATION OF DISTURBED AREAS OUTSIDE THE DESIGNATED LIMITS OF DISTURBANCE, AS SHOWN ON THE DRAWINGS, SHALL BE BORNE SOLELY BY THE CONTRACTION.
- 4 REMOVE ALL EXCESS SOILS ROCK AND CONCRETE TO AN APPROVED DUMP SITE
- CLEARING AND GRUBBING, SUBGRADE PREPARATION AND EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 17 & 19 OF THE STANDARD SPECIFICATIONS, THESE DRAWINGS, AND THE TECHNICAL SPECIFICATIONS.
- 6. PRIOR TO STARTING WORK ON THE PROJECT, SUBMIT FOR ACCEPTANCE BY THE ENGINEER A HAZARDOUS MATERIAS CONTROLS AND SPILL PREVENTION PLAN. INCLUDE PROVISIONS FOR PREVENTING HAZARDOUS MATERIALS FROM CONTAMINATING SOLI OR ENTERING WATER COURSES, AND ESTABLISH A SPILL PREVENTION AND COUNTERMEASURE PLAN.
- 7. FINE GRADING ELEVATIONS, CONFORMS, AND SLOPES NOT CLEARLY SHOWN ON THE DRAWINGS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD TO DIRECT DRAINAGE IN A MANNER THAT SUPPORTS THE INTENT OF THE DESIGN. ALL FINAL GRADING SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.
- ALL FILL TO BE COMPACTED TO A MINIMUM OF 90% MAXIMUM DENSITY AS DETERMINED BY ASTM-01557.
- 9. SPREAD MATERIAL IN LIFTS OF APPROXIMATELY B INCHES, MOISTENED OR DRIED TO NEAR OPTHUM MOISTURE CONTRY! AND RECOMPACTED. THE MATERIALS FOR ENGINEERED FILL SH-BE THE MATERIAL EXCAVATED ALONG THE BASE OF THE EXISTING ROCK SLOPE PROTECTION WITH ORGANIC MATERIAL REMOVED.
- 10. ALL CONTACT SURFACES BETWEEN ORIGINAL GROUND AND RECOMPACTED FILL SMALL BE EITHER HORIZONTAL OR VERTICAL ALL ORGANIC MATERIAL SMALL BE ERMOYED AND THE REMAINING SURFACE SCARIFIED TO A DEPTH OF AT LEAST 6 INCHES, UNLESS DEEPER EXCAVATION IS REQUIRED BY THE ENGINEER.

SEEDING NOTES

- GENERAL
 A SEED ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION OUTSIDE THE ACTIVE CHANNEL WHICH ARE NOT RECEIVED ROOK, AS STAKED BY THE ENGINEER.
 SEEDING INCLUDES TURNISHING THE SEED, PREPARATION OF THE SEEDBED, AND HAND BROADCASTING SEED AS SPECIFIED ON THE DRAWINGS AND IN THESE NOTES.
- MATERIALS
 A. SEED MIX IS SPECIFIED IN TABLE 1.
 B. MULCH SHALL CONSIST OF "WEED FREE" RICE STRAW.

- INSTALLATION
 A PREPARE THE SEEDBED PRIOR TO SEED APPLICATION. SEEDBED PREPARATION INCLUDES LOOSENING OF COMPACTED SOILS TO A DEPTH OF 3 TO 5 INCHES, BREAKING DOWN SOIL CLUMPS LARGER THAN 2 INCHES IN DIAMETER, GRADING OF THE SURFACE TO BE MON-UNIFORM, ROUGH AND THE SURFACE TO BE MON-UNIFORM. ROUGH AND
- THAN 2 INCHES IN DIAMETER, GRADING OF THE SUFFACE TO BE NON-UNIFORM, ROUGH AND MATURAL IN A PPEARANCE.

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TABLE 1. EROSION CONTROL SEED MIX

	Botanical name	Common Name	Propogation Method	lbs/acre	Growth Form
Seed Mix	Achillea millefolium	yarrow	Broadcast seed	2	forb
	Artemisia douglasiana	mugwort	Broadcast seed	4	forb
	Collinsia heterophylla	Chinese houses	Broadcast seed	2	forb
	Elymus glaucus	blue wildrye	Broadcast seed	10	grass
	Hordeum brachyantherum	California barley	Broadcast seed	10	grass
	Leymus triticoides	creeping wild rye	Broadcast seed	10	grass
	Lotus scoparius	deerweed	Broadcast seed	4	forb
	Trifolium obtusiflorum	creek clover	Broadcast seed	2	forb
	Sisyrinchium bellum	blue eyed grass	Broadcast seed	2	forb
	Vulpia microstachys	vulpia	Broadcast seed	10	grass

EROSION CONTROL NOTES

- THE EROSION CONTROL PLAN SHOWN IS INTENDED FOR THE SLIMMER CONSTRUCTION SEASON (APRIL THE ENGINE CONTROL FOR SHOWN IS INTRODUCED FOR THE SOMMER CONSTRUCTION SPECIAL YEAR OF CONTROL FOR THE SHOWN ON THESE DRAWINGS ARE NOT COMPLETED AND DISTURBED AREAS STABILIZED BY OCTOBER 1ST, CONSULT THE ENGINEER FOR ADDITIONAL RAINY SEASON EROSION CONTROL MEASURES.
- PRIOR TO COMMENCING WORK, PROTECT AREAS TO REMAIN UNDISTURBED WITH ESA FENCING, AS SHOWN ON THE DRAWINGS. ADDITIONAL FENCING MAY BE REQUIRED AT THE DIRECTION OF THE ENGINEER.
- UTILIZE ONLY THE APPROVED HAUL ROADS AND ACCESS POINTS (AS SHOWN ON THE DRAWINGS) FOR TRANSPORT OF MATERIALS AND EQUIPMENT.
- 4. BETWEEN OCTOBER 15 AND APRIL 15, PROTECT EXPOSED SOIL FROM EROSION AT ALL TIMES. DURING CONSTRUCTION, SUCH PROTECTION MAY CONSIST OF MILCHING AND/OP PLANTING OF MATINE VEGETATION OF ADEQUATE DENSITY. BEFORE COMPLETION OF THE PROJECT, STABILIZE ALL EXPOSED SOIL ON DISTURBED SLOPES AGAINST EROSION.
- MAINTAIN A STANDBY CREW FOR EMERGENCY WORK AT ALL TIMES DURING THE RAINY SEASON (OCTOBER 15 THROUGH APRIL 15), STOCKPILE NECESSARY MATERIALS AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES.
- CONSTRUCT TEMPORARY EROSION CONTROL MEASURES AS SHOWN ON THIS PLAN AND/OR AS DIRECTED BY THE ENGINEER TO CONTROL DRAINAGE WHICH HAS BEEN AFFECTED BY GRADING AND/OR TRENCHING OPERATIONS.
- INCORPORATE ADEQUATE DRAINAGE PROCEDURES DURING THE CONSTRUCTION PROCESS TO ELIMINATE EXCESSIVE PONDING AND EROSION.
- 8. CONSTRUCT AND MAINTAIN EROSION CONTROL MEASURES TO PREVENT THE DISCHARGE OF EARTHEN MATERIALS TO THE CREEK FROM DISTURBED AREAS UNDER CONSTRUCTION AREAS.
- INSTALL ALL PROTECTIVE DEVICES AT THE END OF EACH WORK DAY WHEN THE FIVE-DAY RAIN PROBABILITY EQUALS OR EXCEEDS 50 PERCENT AS DETERMINED FROM THE NATIONAL WEATHER SERVICE FORECAST OFFICE: WWW.SRH.NOAA.GOV.
- 10. AFTER EACH RAINSTORM, REMOVE ALL SILT AND DEBRIS FROM SEDIMENT CONTROL DEVICES.
- 11. THE EROSION CONTROL DEVICES ON THIS PLAN ARE A SCHEMATIC REPRESENTATION OF WHAT MAY BE REQUIRED. ROSION CONTROL DEVICES MAY BE RELOCATED, DELETED, OR ADDITIONAL ITEMS MAY BE REQUIRED DEPENDING ON THE ACTUAL SOIL CONDITIONS ENCOUNTERED, AT THE DISCRETION OF THE
- 12. MAINTAIN ALL EROSION CONTROL DEVICES AND MODIFY THEM AS SITE PROGRESS DICTATES.
- 13. MONITOR THE EROSION CONTROL DEVICES DURING STORMS AND MODIFY THEM IN ORDER TO PREVENT PROGRESS OF ANY ONGOING EROSION
- 14. CLEAN DAILY ANY EROSION OR DEBRIS SPILLING ONTO A PUBLIC STREET.
- 15. CONTACT THE ENGINEER IN THE EVENT THAT THE EROSION CONTROL PLAN AS DESIGNED REQUIRES
- 16. IMPLEMENT ALL REQUIRED BMP'S PRIOR TO COMMENCING SITE DISTURBING ACTIVITIES

STREAM CONSTRUCTION NOTES

- STADIUG AND STORAGE AREAS FOR EQUIPMENT, MATERIALS, FUELS, LUBRICANTS AND SOLVENTS, SHALL BE LOCATED OUTSING OF THE STREAM AND CHANNEL BRANS. STRINDAWY EQUIPMENT SUCH AS MOTORS, PUMPS, GENERATORS, COMPRESSORS, AND WELDERS, LOCATED WITHIN OR ADJACENT TO THE STREAM SHALL BE POSITIONED OVER DRIP PANS, ANY EQUIPMENT OR ADDICACENT TO THE STREAM SPALE BE VISITIONED VER PURP PAINS. ANY EQUIPMENT OF VEHICLE DRIVEN AND/OR OPERATED WITHIN OR ADJACENT TO THE STREAM SHALL BE CHECKED AND MAINTAINED DAILY, TO PREVENT LEAKS OR MATERIALS THAT IF INTRODUCED TO WATER COULD BE DELETERIOUS TO AQUATIC LIFE.
- 2. NO DEBNS, RUBBISH, GREGOSTE-TREATED WOOD, SOIL, SILT, SAND, CEMENT, CONCRETE, OR WASHINGS THEREOF, OR OTHER CONSTRUCTION-RELATED MATERIALS OR WASTES, OIL, OR PETRICULOM PRODUCTS OR OTHER ORGANIC MATERIAL OR BE MASKED SHALL BE RUMOFF AND A CONTROL OF THE ORGANIC OF THE ORGANIC ORGANI
- 3. NO EQUIPMENT SHALL BE OPERATED IN AREAS OF FLOWING OR STANDING WATER: NO FUELING. CLEANING OR MAINTENANCE OF VEHICLES OR EQUIPMENT SHALL TAKE PLACE WITHIN ANY AREA WHERE AN ACCIDENTAL DISCHARGE TO THE CREEK MAY OCCUR; CONSTRUCTION MATERIAL AND HEAVY EQUIPMENT MUST BE STORED OUTSIDE OF THE ORDINARY HIGH WATER LEVEL.

CONSTRUCTION SCHEDULE / PHASING NOTES

PRIOR TO COMMENCEMENT OF WORK, CONTRACTOR SHALL PROVIDE ENGINEER A DETAILED CONSTRUCTION SCHEDULE FOR APPROVAL. THE CONTRACTOR SHALL NOT BEEN MAY TO CONSTRUCTION WORK LUTIL. THE PROJECT SCHEDULE AND WORK PLAN IS APPROVED BY THE ENGINEER SHALL BE LOSSELY CONFINENCIA. THE ENGINEER SHALL BE LOSSELY CONFINENCIAL SHALL BE GENERALLY ACCOMPLISHED AS FOLLOWS.

- INSTALL BMPS.
 ESTABLISH ACCESS AND EQUIPMENT STAGING AREAS.
 COORDINATE WITH FISHERIES BIOLOGIST TO INSTALL BLOCKNETS AND RELOCATE FISH (NIC).
 INSTALL DIVERSION AND DEWATER THE SITE.
- PERFORM CLEARING AND GRUBBING.
- DEMOLISH CONCRETE
- EXCAVATE BEDROCK AND EXPLORATORY TRENCH.
- EXCAVATE BEDROCK AND EX OFFHAUL WASTE. PLACE CONCRETE.) ALLOW CONCRETE TO CURE.) INSTALL GAUGE.
- RESTORE DISTURBED AREAS.
 REMOVE DIVERSION/REWATER.
- 14) SEED DISTURBED AREAS.

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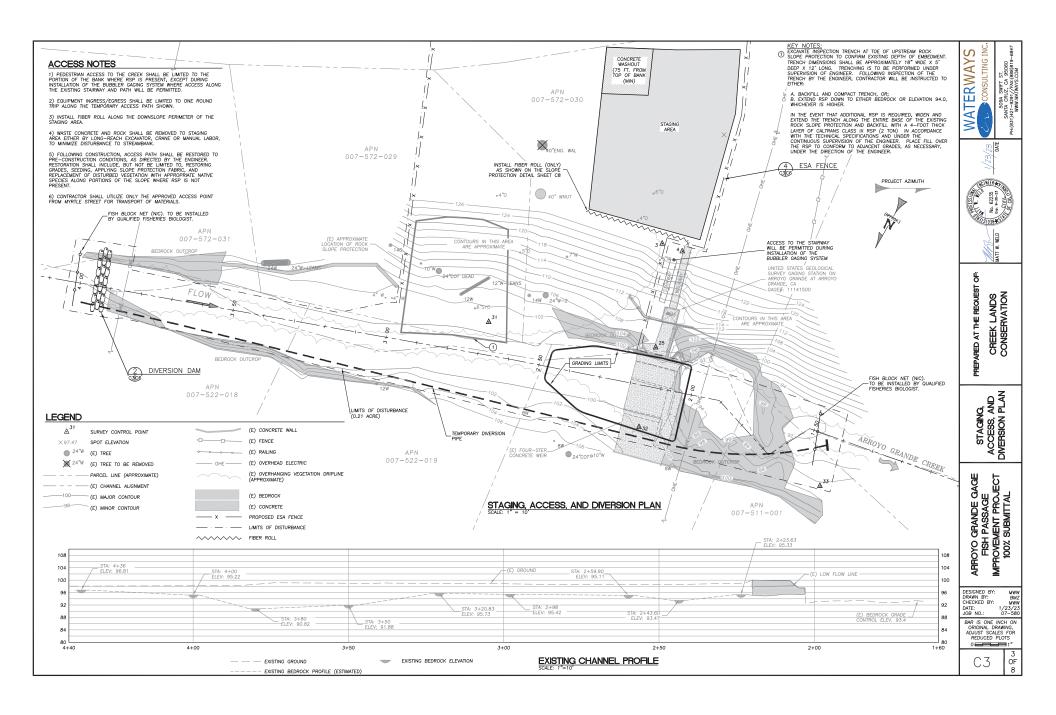


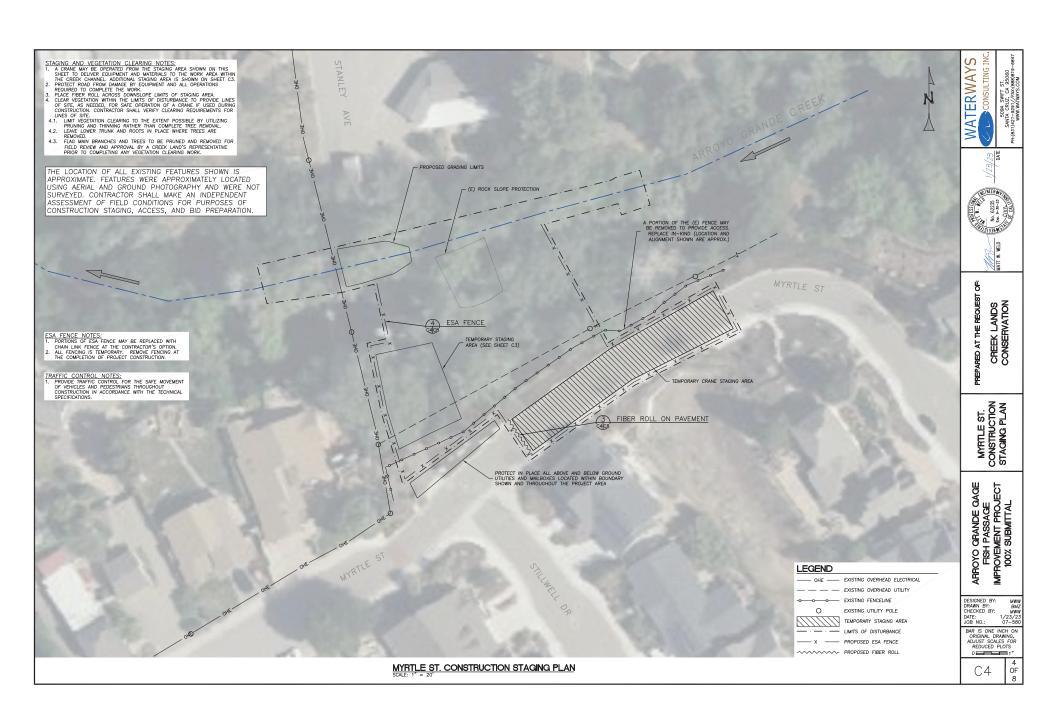
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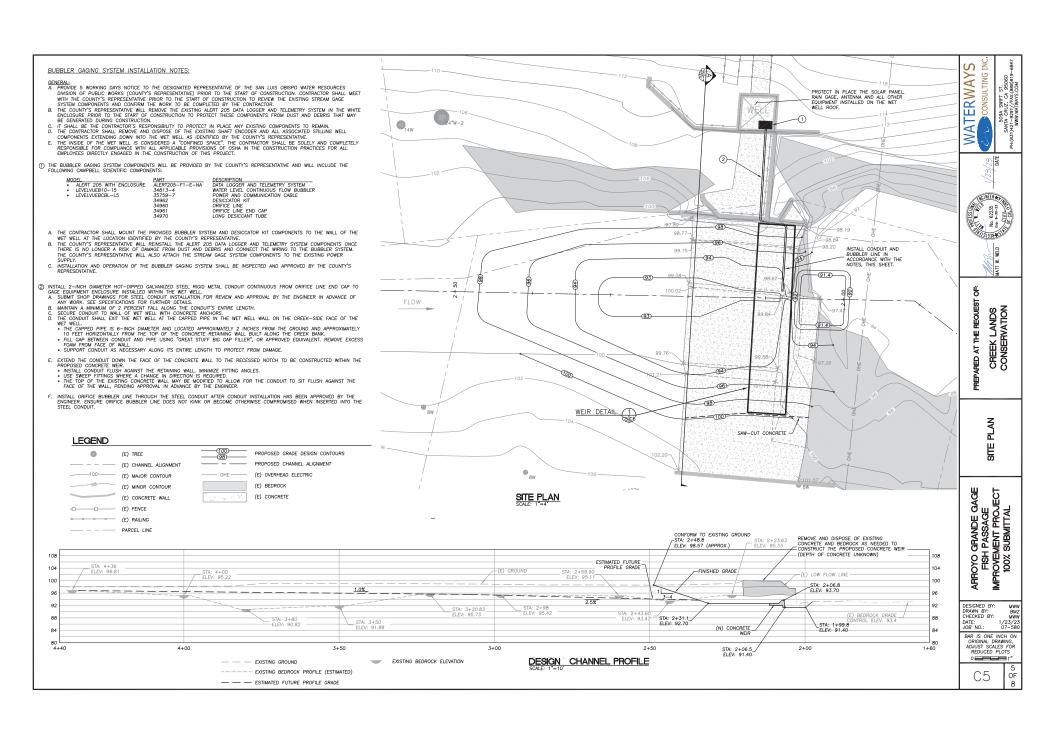
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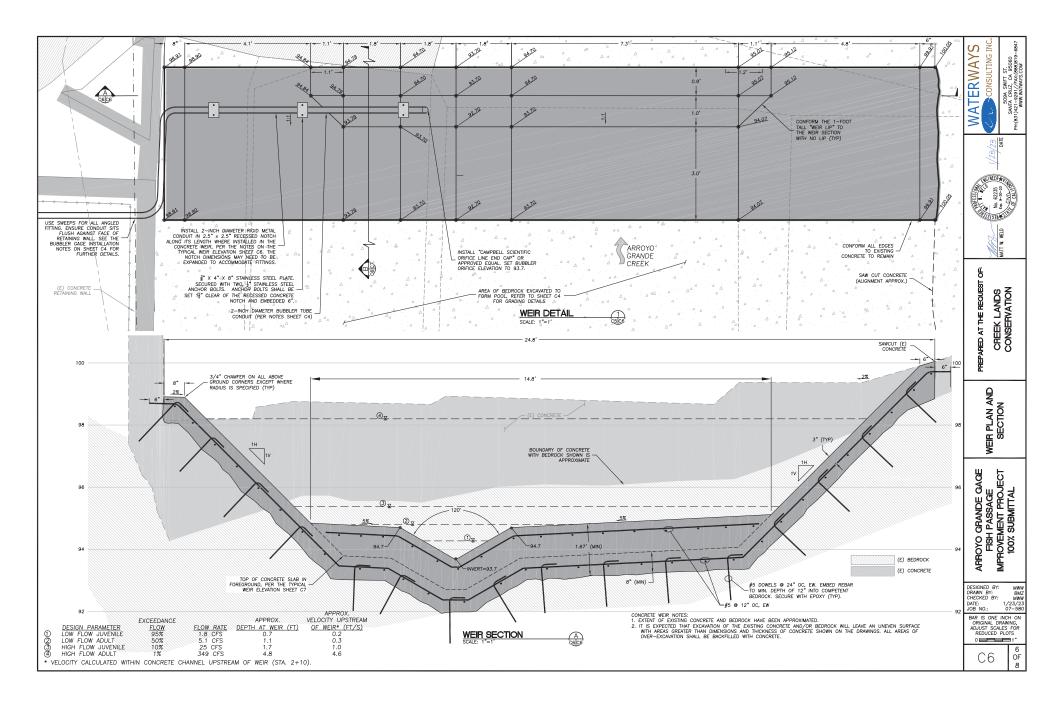
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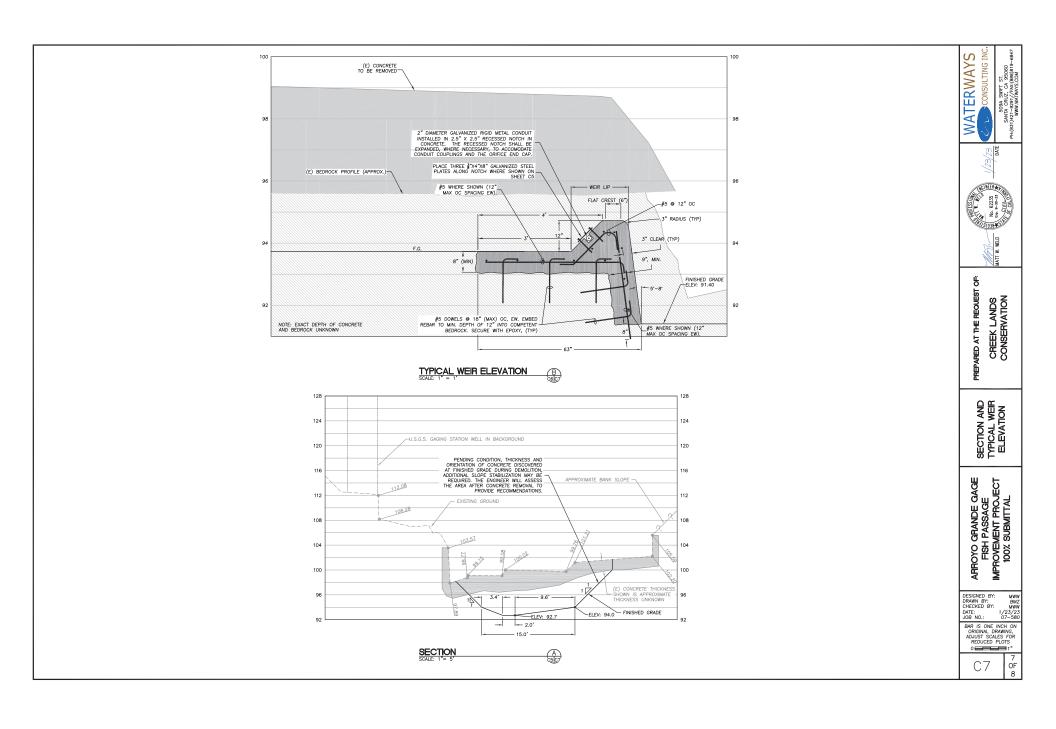
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- NOTES
 1. THE BANK DISTURBED DURING CONSTRUCTION.
 2. RELEVANCE OF THE BANK DISTURBED DURING CONSTRUCTION.
 2. RELEVANCE OF THE CONSTRUCTION AND FIBER ROLLS WILL BE STAKED BY THE DENGREER AFTER ALL CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED AND EQUIPMENT HAS BEEN REMOVED FROM THE CHANNEL.

- SLOPE PROTECTION FABRIC NOTES

 1. SLOPE PROTECTION FABRIC SHALL BE "NORTH AMERICAN GREEN C125BN", OR APPROVED EQUAL.

 2. GROUND ANCHORING DEVICES SHALL CONSIST OF 10" LONG METAL STAPLES. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE LENGTHS GREATER THAN 10" MAY BE NECESSARY TO PROPERLY ANCHOR SLOPE PROTECTION FABRIC.

 3. SECURE USELOPE EDGE OF SLOPE PROTECTION FABRIC INTO A 6" X 6" TRENCH. WITH A ROW OF GROUND ANCHORING DEVICES SPACED APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMANING 12" PORTION OF SLOPE PROTECTION FABRIC'S BACK OVER SEED AND COMPACTED SOIL. SECURE SLOPE PROTECTION FABRIC OVER COMPACTED SOIL WITH A ROW OF GROUND ANCHORING DEVICES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE SLOPE PROTECTION FABRIC
- PROTECTION FABRIC UNKNOLL FOR THE PROTECTION FABRIC DOWNSLOPE, CONSECUTIVE ROLLS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN 18" OVERLAP. WHEN MORE THAN ONE ROLL WIDTH IS ROUBED, CONSECUTIVE ROLLS SHALL BE SPLICED END OVER END IN THE ODWINSTREAM, DIRECTION WITH AN 18" OVERLAP. STARLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE SLOPE PROTECTION
- PABRIC'S LENGTH.

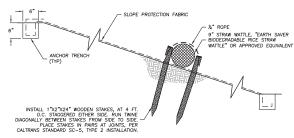
 5. SECURE SLOPE PROTECTION FABRIC TO SLOPE WITH GROUND ANCHORING DEVICES AT 2.5' ON-CENTER SPACING. ADDITIONAL STAPLES SHALL BE INSTALLED, AS NECESSARY, TO ENSURE CONSISTENT CONTACT WITH THE GROUND SURFACE.

 6. ALL SLOPE PROTECTION FABRIC EDGES SHALL BE INSTALLED IN A 6" X 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED INSTALLED IN A 6" X 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED INSTALLED IN A 6" X 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED INSTALLED IN A 6" X 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED INSTALLED IN A 6" X 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED INSTALLED IN A 6" X 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED INSTALLED IN A 6" X 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED INSTALLED IN A 6" X 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED INSTALLED IN A 6" X 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED INSTALLED IN A 6" X 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED INSTALLED IN A 6" X 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED INSTALLED IN A 6" X 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED INSTALLED IN A 6" X 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED INSTALLED IN A 6" X 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED INSTALLED IN A 6" X 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED INSTALLED IN A 6" X 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED INSTALLED IN A 6" X 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED INSTALLED IN A 6" X 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED INSTALLED IN A 6" X 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED IN A 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED IN A 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED IN A 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES SPACED IN A 6" TRENCH WITH A ROW OF GROUND ANCHORING DEVICES DEVICE TRENCH WITH A ROW OF GROUND ANCHORING DEVICES DEVICE TRENCH WITH A ROW OF GROUND A ROW

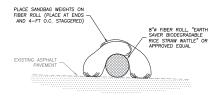
- FIBER ROLL NOTES

 1. PIBER ROLL SHALL BE 9° STRAW WATTLE, "EARTH SAVER BIODEGRADABLE RICE STRAW WATTLE" OR APPROVED EQUAL

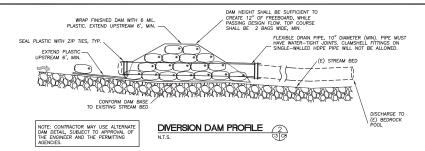
 2. STAKES SHALL BE INSTALLED AT THE ON-CENTER SPACING SHOWN ALONG THE LENGTH OF THE FIBER ROLL AND STOPPED AT 12 INCHES FROM EACH
 END OF THE ROLLS BE PLACED 10 FEET APART ALONG THE SLOPE FOR SLOPE INCLINATION OF 2H:1V AND ATTEMPT 2H:1V AND ATTEMPT 2H:1V AND STEEPER, AND 15 FEET APART ALONG
 THE SLOPE FOR SLOPE INCLINATION DETWEEN 2H:1V AND ATTEMPT 2H:1V AN
- ABUTTING EACH OTHER.
 6. FIBER ROLLS SHALL BE INSTALLED PRIOR TO SEEDING WHERE USED WITHOUT SLOPE PROTECTION FABRIC.
- 7. FIBER ROLL SHALL BE INSTALLED OVER FABRIC (AFTER SEEDING) WHERE SLOPE PROTECTION FABRIC IS TO BE INSTALLED.



SLOPE PROTECTION AND FIBER ROLL DETAIL



FIBER ROLL ON PAVEMENT



DIVERSION NOTES

THE DIVERSION PLAN SHOWN IS SCHEMATIC. THE LOCATION OF THE TEMPORARY DIVERSION DAM SHOWN ON THE DIVERSION PLAN IS APPROXIMATE. THE FINAL LOCATION WILL BE BASED ON THEIL CONTROL OF THE THEORY OF THE DIVERSION AND DEWATERING PLAN ARE SPECIFIED IN THE PROJECT TECHNICAL SPECIFICATIONS AND PERMIT CONDITIONS.

- NERAL.

 DEFINITION OF THE PROJECT STE AS REQUIRED TO FACILITATE IN-STREAM CONSTRUCTION AND REDUCE POTENTIAL IMPACTS TO WATER QUALITY DEWARDS THE PROJECT STEWNER OF THE PROJECT STRUCTURES. PRIOR TO PLACEMENT OF DIVERSION STRUCTURES. PRIOR TO PLACEMENT OF DIVERSION STRUCTURES. PRIOR TO PLACEMENT OF DIVERSION STRUCTURE, REDUCE ITS! FROM THE PROJECT FEACH, IN ACCORDANCE WITH SCHOOL 2. DIVERT FLOW ONLY WHEN THE DIVERSION CONSTRUCTION IS OTHERWISE COMPLETE. FOLLOWING ENGINEER'S APPROVAL OF THE COMPLETED WORK, REDUCE DIVERSION DESCRIPTIONS AT THE ODMISTREAM LIMIT, IN AN UPSTREAM DIFECTION.

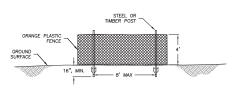
- FISH REMOVAL
 COORDINATE WITH CREEK LANDS FOR THE REMOVAL OF FISH AND OTHER AQUATIC ORGANISMS FROM THE PROJECT AREA BY A QUALIFIED
 FISHERIES BIOLOGIST, AUTHORIZED TO PERFORM SUCH ACTIVITIES BY THE NATIONAL MARINE FISHERIES SERVICE AND THE CALIFORNIA
- PRINTERS BIOLOGIST, AND MILDIFE, (NIC) THE PRINTING SIGHT AND MILDIFE, ONLY THE PRINTING AND THE PRINTING AND THE PRINTING AND THE PRINTING AND THE PRINTING BY THE CHAPTERS BIOLOGIST, BLOCK NETS WILL BE MAINTAINED BY THE CONTRACTOR BOTH UNFIREMAN BOD DOWNSTREAM OF THE DIVERSION, THROUGHOUT THE PERIOD OF CONSTRUCTION, MAINTENANCE INCLUDES PERIODIC REMOVAL OF ACCUMULATED CERRS, AS NECESSARY TO ENSURE FUNCTION. BLOCK NETS SHALL BE REMOVED BY THE FISHERES BIOLOGIST AFTER THE DIVERSION IS REMOVED AND THE IN CHANNEL WORK AREA IS RE-MAITERED.

- 3. INTERIOR STSTEM
 3.1. INSTALL A SEALD, TEMPORARY DIVERSION DAM CONSTRUCTED USING SAND BAGS FILLED WITH CLEAN WASHED PEA GRAVEL. THE DAM AND METHOD OF SEALING SHALL BE PLACED AT AN APPROPRIATE DEPTH TO CAPTURE SUBSURFACE STREAM FLOW, AS NEEDED TO DENATE THE STREAMBED. THE USE OF THE WASHED AT AN APPROPRIATE DEPTH TO CAPTURE SUBSURFACE STREAM FLOW, AS NEEDED TO DENATE THE STREAMBED. THE USE OF THE DESTROAM CONTROL OF THE STREAMBED. THE USE OF THE DESTROAM CONTROL OF THE STREAMBED AND THE DESTROAM CONTROL OF THE STREAMBED AND THE DESTROAM CONTROL OF THE STREAMBED AND THE DESTROAM CONTROL OF THE PROPRIED AS SHOWN ON THE DEAMINGS, OR AS DIRECTED BY THE ENGINEER IN THE FIELD.
 3.2. IT THE DIVERSION STRUCTURE SHALL BE CONSTRUCTED AS SHOWN ON THE DEAMINGS, OR AS DIRECTED BY THE ENGINEER IN THE FIELD. SHALL SHAL

- 4.3.

THE INLE, AND SHALL BE A MINIMON DIMMETER OF 10, WITH A MANINNO'S PROJECTIONS NOT EXCELLING JOIL.

1. DEMATERING OF CONSTRUCTION AREAS
4.1 THE CONTRACTOR SHALL SUPPLY ALL NECESSARY PUMPS, PIPING, FILTERS, SHORING, AND OTHER TOLLS AND MATERIALS NECESSARY FOR DEWATERING, IF A PUMPED SYSTEM IS RELED UPON TO ENSURE DOWNSTRAM MATER QUALITY, A BACKUP PUMP OF EQUAL CAPACITY SHALL DEWATERING ACTIVITIES WHICH MAY BE REQUIRED FOR CONSTRUCTION PURPOSES SHALL COMPLY WITH WATER QUALITY SHANDARDS ISSUED BY THE CALIFFORM REGIONAL WATER QUALITY SHANDARDS ISSUED BY THE CALIFFORM THE DEWATER FOR OWNER OF THE SHANDARD SHANDARD





ARROYO GRANDE GAGE FISH PASSAGE IMPROVEMENT PROJECT 100% SUBMITTAL

DESIGNED BY: MWW BMZ MWW DRAWN BY: CHECKED BY: DATE: JOB NO.:

BAR IS ONE INCH ON ORIGINAL DRAWING, ADJUST SCALES FOR REDUCED PLOTS

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ARED AT THE REQUEST CONSERVATION

DETAILS