WOOD CREEK AQUATIC HABITAT ENHANCEMENT PROJECT
PHASE II CONSTRUCTION 2017
PLANS
FRESHWATER FARMS RESERVE
HUMBOLDT COUNTY, CA

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DEVELOPED BY:

NORTHCOAST REGIONAL LAND TRUST

IN ASSOCIATION WITH:
ADMINISTRATIVE AND OPERATIONS

1. CONSTRUCTION IS PERMITTED BY REGULATORY AGENCIES TO OCCUR BETWEEN JULY 1 AND OCTOBER 15 AND WHEN THE GROUND SURFACE IS DRY. CONSTRUCTION UNDER THIS CONTRACT SHALL NOT PROCEED PAST SEPTEMBER 29, 2017.

2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK AND REPORT ANY DISCREPANCIES TO THE CONTRACT MANAGER. SHOULD EXISTING CONDITIONS DIFFER FROM THOSE SHOWN OR INDICATED, OR IF IT APPEARS THAT THESE PLANS DO NOT ADEQUATELY DETAIL THE WORK TO BE DONE, CONTRACTOR SHALL NOTIFY THE CONTRACT MANAGER PRIOR TO CONTINUING WITH ANY RELATED WORK. NO ALLOWANCE SHALL BE MADE ON CONTRACTOR’S BEHALF FOR ANY EXTRA EXPENSE RESULTING FROM FAILURE OR NEGLECT IN DETERMINING THE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED. NOTED DIMENSIONS TAKE PREFERENCE OVER SCALE.

3. A SET OF SIGNED CONTRACT DOCUMENTS (PLANS AND SPECIFICATIONS) SHALL BE KEPT AT ALL TIMES AT EACH JOB SITE ON WHICH ALL CHANGES OR VARIATIONS IN THE WORK ARE TO BE RECORDED AND/OR CORRECTED DAILY AND SUBMITTED TO THE CONTRACT MANAGER WHEN THE WORK TO BE DONE IS COMPLETED.

4. CONTRACT MANAGER SHALL PROVIDE THE CONTRACTOR WITH COPIES OF PERMIT AGREEMENTS, AND ALL RELATED NOTIFICATION MATERIALS.

5. CONTRACTOR SHALL COMPLY WITH ALL PROJECT PERMITS. THE CONTRACT MANAGER SHALL PROVIDE A COPY OF THE Permits TO THE CONTRACTOR. IT SHALL BE THE RESPONSIBILITY OF THE CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL HALT WORK IMMEDIATELY AND CONTACT THE CONTRACT MANAGER FOR INSTRUCTIONS. IF HUMAN BURIALS OR HUMAN REMAINS ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE COUNTY CORONER.

6. CONTRACTOR SHALL HAVE PERMITS READILY AVAILABLE AT THE PROJECT SITE AT ALL TIMES AND SHALL BE PRESENTED TO PERSONNEL FROM STATE, FEDERAL, OR LOCAL AGENCIES UPON REQUEST.

7. QUANTITIES OF ITEMS, LENGTH OF PROJECT, AND SITE CONDITIONS SHOWN IN THE PLANS ARE APPROXIMATE. ALL MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.

8. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY AND ALL DAMAGES TO EXISTING STRUCTURES, ROADS, AND UTILITIES DURING CONSTRUCTION. ALL DAMAGE SHALL BE RESTORED TO EQUAL OR BETTER CONDITION AT THE CONTRACTOR’S EXPENSE.

9. THE DESIGN FEATURES SHOWN ON THESE DESIGN PLANS SHALL NOT BE ALTERED OR MODIFIED IN ANY WAY DURING CONSTRUCTION WITHOUT THE EXPRESSED, WRITTEN DIRECTION AND APPROVAL OF THE CONTRACT MANAGER.

10. NO WORK SHALL BE PERFORMED OUTSIDE OF THE DESIGNATED AREAS WITHOUT THE APPROVAL OF THE CONTRACT MANAGER. ANY MODIFICATIONS FROM PLANS NEED TO BE COMPLETED AND/OR APPROVED BY THE CONTRACT MANAGER PRIOR TO IMPLEMENTATION.

GRADING NOTES

1. RESTRICT NOISE FROM EARTHMOVING AND HAULING OF SOIL.

2. GROUND DISTURBANCE SHALL NOT EXCEED THE MINIMUM DISTURBANCE INDICATED ON PLANS AND KEPT TO A MINIMUM AREA.

3. IN THE EVENT CULTURAL RESOURCES (I.E., HISTORICAL, ARCHAEOLOGICAL, AND PALEONTOLOGICAL RESOURCES AND HUMAN REMAINS) ARE DISCOVERED DURING CONSTRUCTION ACTIVITIES, CONTRACTOR SHALL HALT WORK IMMEDIATELY AND CONTACT THE CONTRACT MANAGER FOR INSTRUCTIONS. IF HUMAN BURIALS OR HUMAN REMAINS ARE ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE COUNTY CORONER.

4. SHOULD GRADING OPERATIONS ENCOUNTER HAZARDOUS MATERIALS, OR WHAT APPEAR TO BE HAZARDOUS MATERIALS, CONTRACTOR SHALL STOP WORK IN THE AFFECTED AREA IMMEDIATELY AND CONTACT THE PROJECT ENGINEER.

5. CONTRACTOR SHOULD EXPECT NATIVE SOILS TO COMPACT AND LOADS. REPEATED VIBRATION AND/OR HIGH LOADS MAY LEAD TO PUMPING OF THE NATIVE SOILS RESULTING IN THE SATURATION OF SANDS OR SANCTIONS CAUSED BY THE CONTRACTOR’S ACTIONS OR IN ACTIONS REGARDING COMPLIANCE WITH THE PERMIT OR EROSION CONTROL PROVISIONS OF THIS PLAN.

STORMWATER POLLUTION CONTROL

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH CALIFORNIA STORMWATER MANAGEMENT REGULATIONS AND IMPLEMENTING APPROPRIATE STORMWATER BMPs. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTATION AND MAINTENANCE OF BMPs, PERFORMING INSPECTIONS AND CORRECTING ANY DEFICIENCIES IDENTIFIED BY THE CONTRACT MANAGER OR PROJECT ENGINEER AS DIRECTED BY THE CONTRACT MANAGER.

2. CONTRACTOR SHALL EMPLOY THE FOLLOWING BEST MANAGEMENT PRACTICES (BMPs) AS DESCRIBED IN THE CURRENT CALIFORNIA STORMWATER BMP HANDBOOK FOR CONSTRUCTION:

- EC-2 PRESERVATION OF EXISTING VEGETATION
- EC-6 STRAW MULCH
- SE-1 SILT FENCE
- SE-7 STREET SWEEPING
- SE-9 STRAW BALE BARRIERS

W-1 WIND EROSION CONTROL
T-1 STABILIZED CONSTRUCTION ENTRANCE/EXIT
N-2 Dewatering Operations
N-9 Vehicle Equipment and Fueling
N-10 Vehicle and Equipment Maintenance
W-1 MATERIALS DELIVERY AND STORAGE
W-2 MATERIAL USE
W-3 Stockpile Management
W-4 Spill Prevention and Control
W-9 SANITARY/SEPTIC WASTE MANAGEMENT

3. EROSION/SEDIMENT BMPS BEYOND WHAT IS LISTED ABOVE AND WHAT IS SHOWN ON THE PLANS MAY BE REQUIRED TO COMPLY WITH PROJECT PERMITS AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT ADDITIONAL BMPS AS NEEDED AND AS DIRECTED BY THE CONTRACT MANAGER OR PROJECT ENGINEER OR THEIR REPRESENTATIVES AT NO ADDITIONAL EXPENSE.

4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIX ANY DEFICIENCIES INDICATED BY THE CONTRACT MANAGER OR PROJECT ENGINEER TO PREVENT EROSION AND CONTROL SEDIMENT.

5. SUFFICIENT EROSION CONTROL SUPPLIES SHALL BE AVAILABLE ON-SITE AT ALL TIMES TO DEAL WITH AREAS SUSCEPTIBLE TO EROSION DURING RAINFALL EVENTS.

6. THE CONTRACTOR SHALL ADJUST BMPS TO MAINTAIN COMPLIANCE. THE CONTRACTOR SHALL BE LIABLE FOR ANY FINES ISSUED TO THE BY THE SWRCB. THE CONTRACTOR SHALL HOLD THE CONSTRUCTION ACTIVITIES AND PROJECT ENGINEER HARMLESS FOR ANY FINES OR SANCTIONS CAUSED BY THE CONTRACTOR’S ACTIONS OR IN ACTIONS REGARDING COMPLIANCE WITH THE PERMIT OR EROSION CONTROL PROVISIONS OF THIS PLAN.

7. THE CONTRACTOR SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE, AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION THAT HAVE NOT BEEN FINALLY STABILIZED, STABILIZATION PRACTICES, STRUCTURAL PRACTICES, AND OTHER CONTROLS AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS, WITHIN TWO (2) CALENDAR DAYS OF FORECASTED RAINS, AND WITHIN 24 HOURS OF THE END OF ANY STORM THAT PRODUCES 0.5 INCHES OR MORE RAINFALL AT THE SITE.

CONTINUES ON SHEET 3
ENVIRONMENTAL PROTECTION AND POLLUTION CONTROL MEASURES

1. HEAVY EQUIPMENT THAT SHALL BE USED IN THE PROJECT SHALL BE IN GOOD CONDITION AND SHALL BE INSPECTED FOR LEAKAGE OF COOLANT AND PETROLEUM PRODUCTS AND REPAIRED, IF NECESSARY, BEFORE WORK IS STARTED. ALL MACHINERY OR HEAVY EQUIPMENT SHALL BE CLEANED OF MATERIALS DELETERIOUS TO AQUATIC LIFE INCLUDING OIL, LUBRICANTS, COOLANTS, HYDRAULIC FLUID, SOIL, AND OTHER DEBRIS. ALL CONSTRUCTION VEHICLES OR EQUIPMENT SHALL BE CHECKED DAILY TO PREVENT LEAKS OF FUELS AND/OR LUBRICANTS.

2. PRIOR TO THE ONSET OF WORK THE CONTRACTOR SHALL PREPARE A SPILL PREVENTION AND RESPONSE PLAN FOR THE THREE PROJECT AREAS. THE SPILL PREVENTION AND RESPONSE PLAN MUST INCLUDE DESCRIPTION OF SPILL CLEANUP PROCEDURES, DESCRIPTION OF WORKER TRAINING, DESIGNATION OF FUELING LOCATIONS, AND IMPACT AVOIDANCE MEASURES. THE PLAN MUST BE APPROVED BY THE CONTRACT MANAGER PRIOR TO STARTING WORK.

3. REFUELING OF EQUIPMENT SHALL TAKE PLACE OFFSITE EXCEPT FOR HEAVY EQUIPMENT OR TRACKED EQUIPMENT WHICH WOULD REQUIRE LOADING/UNLOADING. CONTRACTOR SHALL LIMIT FUELING AREAS FOR EXEMPTED EQUIPMENT TO THE GRAVELLED PARKING AREA. CONTRACTOR SHALL IDENTIFY EXEMPTED EQUIPMENT AND FUELING AREAS ON SPILL PREVENTION AND RESPONSE PLAN.

4. NO FUELING SHALL TAKE PLACE WITHIN 100 FEET OF COASTAL OR FLOWING WATERS. STATIONARY EQUIPMENT SHALL BE POSITIONED OVER DIP PANS.

5. EQUIPMENT MAINTENANCE AND CLEANING SHALL TAKE PLACE OFF-SITE.

6. ABSORBENT MATERIALS DESIGNED FOR SPILL CONTAINMENT AND CLEANUP SHALL BE KEPT AT ALL THREE PROJECT SITES FOR USE IN CASE OF AN ACCIDENTAL SPILL. ANY MATERIAL, WHICH COULD BE HAZARDOUS OR TOXIC TO AQUATIC LIFE INCLUDING OIL, LUBRICANTS, COOLANTS, HYDRAULIC FLUID, SOIL, AND OTHER DEBRIS, SHALL BE REMOVED FROM THE PROJECT SITE AND PROPERLY DISPOSED OF OFF-SITE UPON PROJECT COMPLETION.

7. NO CONSTRUCTION MATERIALS, DEBRIS, OR WASTE, SHALL BE PLACED OR STORED WHERE IT MAY BE ALLOWED TO ENTER INTO OR BE PLACED WHERE IT MAY BE WASHED BY RAINFALL INTO WATERS OF THE U.S./STATE.

8. SOIL AND MATERIAL STOCKPILES SHALL BE PROPERLY PROTECTED TO MINIMIZE SEDIMENT AND POLLUTANT TRANSPORT FROM THE CONSTRUCTION SITE. NO DEBRIS, SOIL, SILT, SAND, BARK, SLASH, RUBBISH, CEMENT OR CONCRETE WASHNINGS, OIL OR PETROLEUM PRODUCTS, OR OTHER DELETERIOUS MATERIAL FROM PROJECT ACTIVITIES SHALL BE ALLOWED TO ENTER INTO OR BE PLACED WHERE IT MAY BE WASHED BY RAINFALL OR RUNOFF INTO THE STREAM.

9. CONTRACTOR SHALL NOT OPERATE EQUIPMENT DIRECTLY WITHIN FLOODED TIDAL CHANNELS, SLoughs, OR FLOWING STREAMS EXCEPT UNDER DIRECT SUPERVISION OF PROJECT ENGINEER. CONTRACTOR SHALL NOT PLACE FILL IN FLOODED CHANNELS OR SLoughs UNTIL RECEIVING APPROVAL AND DIRECTION FROM THE PROJECT ENGINEER. THE PROJECT ENGINEER WILL VERIFY ENVIRONMENTAL PROTECTION MEASURES HAVE BEEN IMPLEMENTED.

10. CONTRACTOR SHALL CONDUCT OPERATIONS SO AS TO PREVENT WINDBLOWN DUST AND DIRT FROM INTERFERING WITH THE SURROUNDING NORMAL OPERATIONS. CONTRACTOR SHALL ASSUME LIABILITY FOR ALL CLAIMS RELATED TO WINDBLOWN DUST AND DIRT. WATER SHALL BE APPLIED IN CONFORMANCE BMP WE-1.

TIRE TRACKING CONTROL PLAN

1. PRIOR TO THE ONSET OF WORK, THE CONTRACTOR SHALL PROVIDE A TIRE TRACKING CONTROL PLAN FOR ALL TRUCKS AND CONSTRUCTION EQUIPMENT, WHICH SHALL ENTER AND LEAVE THE THREE PROJECT AREAS. THE PLAN MUST BE APPROVED BY THE CONTRACT MANAGER PRIOR TO STARTING WORK.

2. THE CONTRACTOR SHALL PROVIDE MEANS OF REMOVING SAND, MUD, VEGETATION, RHIZOMES/ROOTS, AND SEEDS FROM VEHICLE WHEELS AND UNDER CARRIAGE BEFORE ENTERING AND EXITING THE CONSTRUCTION SITE ONTO COUNTY ROAD.

3. THE CONTRACTOR SHALL MONITOR ALL ROADS UTILIZED AS PART OF THE PROJECT CONTRACTOR ON A DAILY BASIS FOR SEDIMENT TRACKING AND OTHER MATERIALS DUE TO CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL VISUALLY INSPECT PARKING AREA AND MYRTLE AVENUE IN VICINITY OF PROJECT AREA TWICE DAILY TO VERIFY NO HAZARDS ARE CREATED BY SEDIMENT TRACKING. CONTRACTOR SHALL REMOVE ANY TRACKING BY STREET SWEEPING OR OTHER MEASURES IN A TIMELY MANNER. ROADS SHALL BE LEFT CLEAN AT THE END OF EACH WORKING DAY; CLEANING OPERATIONS SHALL NOT CREATE WATER RUNOFF OR DUST.

SAFETY

1. EQUIPMENT OPERATORS SHALL BE TRAINED IN THE PROCEDURES TO BE TAKEN SHOULD AN ACCIDENT OCCUR.

2. ALL INTERNAL COMBUSTION ENGINES SHALL BE FITTED WITH SPARK ARRESTORS.

3. THE CONTRACTOR SHALL HAVE AN APPROPRIATE FIRE EXTINGUISHERS AND FIRE FIGHTING TOOLS PRESENT AT ALL TIMES WHEN THERE IS A RISK OF FIRE.

4. VEHICLES SHALL NOT BE PARKED IN TALL GRASS OR ANY OTHER LOCATION WHERE HEAT FROM THE EXHAUST SYSTEM COULD IGNITE A FIRE.

5. WORKERS SHALL BE REQUIRED TO WEAR HEARING PROTECTION WHEN IN THE VICINITY OF OR WHILE OPERATING EQUIPMENT PRODUCING NOISE LEVELS EQUAL TO OR GREATER THAN 85 DB.


OPERATIONS

1. THERE ARE NO UTILITY SERVICES AVAILABLE AT THE PROJECT AREA. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING WATER AND SANITARY NEEDS. THERE IS A LIMITED WATER SUPPLY MAY BE OBTAINED FROM THE FRESHWATER FARMS RESERVE BARN. THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING HIS OWN WATER AT THE CONTRACTOR’S EXPENSE. IF THE SUPPLY FROM THE FRESHWATER FARMS RESERVE BARN IS INADEQUATE.

2. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO PARKING AREA AND STABILIZED CONSTRUCTION ENTRANCE INCURRED DURING CONSTRUCTION, REMOVE CONSTRUCTION DEBRIS, CONSTRUCTION EQUIPMENT, AND TEMPORARY FACILITIES FROM WHITE SLOUGH PROJECT AREA.
WOOD CREEK AQUATIC HABITAT ENHANCEMENT PROJECT
PHASE II CONSTRUCTION 2017
WORK AREA AND WORK ITEMS

ITEM 2: REINSTALL STABILIZED CONSTRUCTION ENTRANCE

ITEM 3: DISK AND PREPARE PASTURE APPROXIMATELY 2.5 ACRES PASTURE AREA FOR FILL

ITEM 4B: PLACE AND DISC 2040 CY CATTAIL/SOIL MATERIAL FROM STOCKPILE LIMITS AND DEPTHS TO BE DESIGNATED BY PROJECT ENGINEER.
- LARGE CLUMPS AND PLANT MATERIAL SHALL BE REDUCED TO LESS THAN 6-INCHES IN SIZE

ITEM 5A: TREE REMOVAL AREA:
- HARVEST 25 WHOLE TREES AND TRANSPORT TO TIDAL CHANNELS

ITEM 5B: PLACE 25 WHOLE TREES AS DIRECTED BY PROJECT BIOLOGIST OR PROJECT ENGINEER

ITEM 6: SEED AND MULCH FILLED PASTURE AREAS AND ANY AREAS DISTURBED DURING CONSTRUCTION

ITEM 4A: CATTAIL/SOIL STOCKPILE
- MOVE 2040 CY TO DESIGNED PASTURE AREA

ITEM 4C: REED CANARY GRASS STOCKPILE
- DO NOT DISTURB

ITEM 3: DISK AND PREPARE PASTURE APPROXIMATELY 2.5 ACRES PASTURE AREA FOR FILL

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