

## **SECTION 01800 -- ENVIRONMENTAL MITIGATION REQUIREMENTS**

### **PART 1 GENERAL**

#### **1.1 CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)**

- A.** The Contractor is advised that the District has completed an Environmental Impact Report (EIR) which, through the certification process, has adopted a detailed Mitigation Monitoring and Reporting Program (MMRP).
- B.** Included in this Specification are specific mitigation measures derived from the MMRP which are required to be part of these Contract Documents.
- C.** The Contractor shall comply with all the requirements of the mitigation measures listed in this section and all others required for completion of the Work. The Contractor shall be responsible for paying all fees, or charges levied in connection with these mitigation measures, except as noted. Fees for services provided by the District's arborist and biological monitor will be paid by the District.
- D.** Unless otherwise indicated, the Contractor shall have included in its bid to fully implement these mitigation measures.
- E.** In the event that the Contractor determines in its opinion that a conflict occurs between these mitigation measures and other Specification sections, the Contractor shall immediately inform the District and the District shall provide requisite direction.

#### **1.2 RELATED REQUIREMENTS**

- A.** General Conditions
- B.** Special Conditions
- C.** Section 01040 -- Coordination
- D.** Section 01060 -- Regulatory Requirements and Permits
- E.** Section 01061 -- Tree Preservation
- F.** Section 01520 -- Security
- G.** Section 01550 -- Site Access and Storage
- H.** Section 01560 -- Construction Facilities and Temporary Controls
- I.** Section 02100 -- Site Preparation
- J.** Section 02200 -- Earthwork
- K.** Section 02250 -- Erosion and Sedimentation Control
- L.** Section 02900 -- Planting

### 1.3 HYDROLOGY AND WATER SUPPLY (3.4)

#### A. EIR Mitigation Measure 3.4-1: Minimize Impacts to Recharge Potential

1. Contractor is advised that groundwater perched in alluvial soils above an impermeable layer of rock or clays exists in areas along the construction route. This mitigation measure is to avoid or minimize, to the extent possible, impacts to the recharge potential of shallow groundwater wells within the perched water table.
2. During installation of the pipelines, in order to provide an equal or minimally higher permeability than that of the surrounding native material, the Contractor shall take special care to ensure that select backfill material around the pipeline meets the select backfill specified in Section 02200 – Earthwork.
3. Contractor shall notify the District immediately whenever groundwater is encountered during construction. The District or the District's consultant will make the determination whether construction is in a perched water table and will advise property owners that groundwater has been encountered.
4. During installation of the pipelines, in order to provide an equal or minimally higher permeability than that of the surrounding native material, the Contractor shall take special care to ensure that select backfill material around the pipeline meets the select backfill specified in Section 02200 – Earthwork.
5. Construction within the perched water table could cause well water quality to become turbid. If the turbidity for a well continuously exceeds 4 NTU for a period of 2 hours, as determined by District testing, the District will direct the Contractor to provide the following mitigation measures until conditions return to normal.
  - a. Provide an alternate source of treated drinking water for household use, e.g. bottled water.
  - b. Provide wellhead treatment at the impacted residences as needed to maintain source water quality in accordance with California Department of Public Health standards for water sourced from domestic wells.

The District will be responsible for payment to implement either mitigation measure. Payment will be negotiated on a case-by-case basis.

6. In areas where groundwater is encountered but is determined not to be in a perched water table, the District shall determine whether a significant amount of recharge is originating from the area surrounding the pipeline trench. If significant recharge is determined, the District will instruct the Contractor to use select backfill as provided in Section 02200 – Earthwork beyond that required in all areas by the Standard Pipeline Bedding and Backfill Detail provided in the Contract Drawings. This determination will be on a case-by-case basis.
7. Payment in this case for select pipeline backfill will be negotiated on a case-by-case basis.

8. To promote the continuation of any existing lateral flow conditions, the Contractor shall install anti-seepage collars or trench dams at locations as shown on the Contract Drawings and in accordance with details and Specifications.

**B. EIR Mitigation Measures 3.4-2 and 3.14-6: Blasting Mitigation Plan, Well Monitoring Plan and Vibration Monitoring Plan, and Minimizing Risk of Blasting Operations**

1. Blasting as a method of trench construction will be allowed only as a last resort in the absence of any other viable construction method, and approval to utilize blasting shall be required from the District. If blasting, as a means to assist in the excavation of the pipeline alignment, is used, the Contractor shall prepare a Blasting Mitigation Plan for any wells within 100 feet of a blasting site. A Blasting Mitigation Plan shall include a Well Monitoring Plan and a Vibration Monitoring Plan.
2. If a rock trencher is employed to assist in the excavation of the pipeline alignment within 50 feet of an existing and operating well, the Contractor shall prepare a Well Monitoring Plan and a Vibration Monitoring Plan.
3. A Well Monitoring Plan is required for any existing and operating well within 100 feet of a blasting site or within 50 feet of rock trencher operation. At a minimum this Plan shall include for establishing a baseline for well production before blasting or rock trenching and a monitoring of well production after.
4. These plans shall be developed by a licensed hydrogeologist and / or geotechnical engineer as appropriate and will be submitted to the District for review and approval prior to any blasting where wells are within 100 feet of blasting or within 50 feet of rock trencher operation. The Contractor shall hire a qualified firm to perform pre- and post-construction inspection of residences and other occupied structures within 500 feet of the blast site. The qualified firm shall prepare a report of pre- and post-blast condition of the residence or other structure, including videotaping of foundations to record any existing defects prior to blasting. The Contractor shall repair all damage identified in the report that is the result of blasting at his own expense.
5. The Contractor shall include the following mitigation measures in its Blasting Mitigation Plan, and shall implement these mitigation measures to minimize potential health risks and ensure public safety during blasting operations
  - a. Blasting shall be performed by qualified personnel in strict compliance with all applicable laws and ordinances, safety requirements, and project specifications;
  - b. The Contractor shall minimize any potential flying rock during the blasting, and shall clean up any blast debris.
  - c. The Contractor shall notify the County's Sheriff's Department as per County requirements, and all property owners within 1000 feet, at least 48 hours prior to the commencement of blasting operations;
  - d. The Contractor will use the best available technology, such as blast mats or other techniques, to minimize vibration and noise generated by blasting.

- e. The blasting contractor will be responsible for making sure that no unauthorized individuals or vehicles are on or near the construction site during blasting to ensure safety;
- f. A licensed hydrogeologist and / or geotechnical engineer as appropriate is on-site at the time of blasting.

**C. EIR Mitigation Measure 3.4-3: Repair of Damage to Wells**

1. Where existing well heads, well casings or other appurtenances shown on the Drawings are physically damaged or removed by the Contractor, they shall be repaired or replaced by the Contractor to an as good or better condition than what existed prior to the disruption, and at the Contractor's expense.
2. The Contractor shall also provide a temporary water supply during the repair or replacement activities.
3. No additional payment will be made specific to this mitigation measure, subject to the following. In the event that inadvertent damage occurs to existing well heads, well casings or appurtenances not shown on the Drawings, and provided Contractor has taken reasonable care to locate and / or avoid such facilities, payment shall be paid by the District and will be negotiated on a case-by-case basis.

1.4 RECREATION (3.5)

**A. EIR Mitigation Measure 3.5-1: Implement a Recreational Use Control Plan to avoid impacts to recreation.**

1. The Contractor shall furnish and install temporary signs at the start and end of construction zones where Lower Cascade Canal (LCC) or Upper Grass Valley Canal (UGVC) closures are required to complete construction under this Contract. Signs shall, at a minimum provide a description of the area being worked on, the estimated duration of the work period, and a telephone number where more information about the Work can be obtained.
2. Bulletin boards established under the requirements of this Specification Section within project areas used for recreation shall provide a description of the area being worked on, the estimated duration of the work period, and a telephone number where more information about the Work can be obtained.
3. Payment for signs shall be considered incidental to the Work.

**B. EIR Mitigation Measure 3.5-2: Implement a Public Information Plan to reduce impacts to recreation.**

1. The Contractor shall implement a Recreational Use Control Plan to inform the public of road obstruction during construction and duration of Work.
2. The Contractor shall furnish and install temporary signs at the approaches to construction area in accordance with this Specification and the project Traffic Control Plans. Signs shall conform with the standard defined in these Specifications and shall, at a minimum, provide a description of the road

segment affected, the estimated duration of the work period, and a telephone number where more information about the Work can be obtained.

3. Payment for signs shall be considered incidental to the Work.

1.5 AESTHETICS (3.6)

**A. EIR Mitigation Measure 3.6-1:** Implement Measures to Reduce Visual Intrusion during Construction.

1. To reduce visual impacts caused by dust, the Contractor shall water areas where dust is generated at least daily, and more frequently during hot and / or dry weather when directed by the District, particularly along unpaved haul routes and during earth-moving activities, in accordance with Section 02200 of these Specifications.
2. Construction sites shall be hydro-seeded with grasses and forbs at the first opportunity as part of the Erosion Prevention Plan as specified in Section 02250 - Erosion and Sedimentation Control and in accordance with Section 02900 - Planting. Seed mixture shall be as designated by the District and shall contain seeds from existing vegetation types found at the sites
3. District's restoration contractor shall monitor and maintain with appropriate watering the re-seeded and re-vegetated areas for five years following completion of construction. Contractor shall replace any trees within five years, and shrubs, groundcover, or grass species that perish within two years from completion of construction with the same species and size of replacement vegetation, and shall re-seed as necessary for hydro-seeded areas with a District - approved seed mixture.

**B. EIR Mitigation Measure 3.6-3:** Implement Measures to Reduce Visual Intrusion Post Construction

1. District's restoration contractor shall monitor and maintain with appropriate watering the cut and fill slopes that were re-seeded by the Contractor with the appropriate District -approved mixture as specified in Section 02900 – Planting.
2. The Contractor shall leave the ground within his work zones graded to pre-construction conditions, suitable for further landscaping restoration by District's restoration contractor. Contractor shall apply jute netting on roadway embankment slopes; reconstruct embankments to near original grade; construct water bars and silt fences on steep slopes (greater than 3 to1); restore creek banks; restore stockpiled topsoil; and restore drainage ditches. If there is a vegetation loss, where the vegetation or shrubs were intentionally planted by the property owners, that results in loss of screening of private property, the District will provide property owners with an option to re-seed with a District-approved grass seed mixture, or re-vegetate with like kind ornamental vegetation or shrubs from nursery stock, or native shrubs and trees. District's restoration contractor shall be responsible for replacement of ornamental landscaping with nursery stock, native shrubs or trees as soon as practical following construction completion at the impacted location.

3. Replacement trees or landscaping shall not be placed where they would interfere with maintenance access to the pipelines.
4. District's restoration contractor shall monitor re-seeded and re-vegetated areas for five years following completion of construction. The Contractor shall replace any trees within five years, and shrubs, groundcover, or grass species that perish within two years from completion of construction with the same species and size of replacement vegetation, and shall re-seed as necessary for hydro-seeded areas with a District-approved seed mixture and in accordance with Section 02900 - Planting.
5. The Contractor shall paint over all surveyors' paint marks on any trees not removed by construction. The paint color shall be a shade of brown or green that blends with the rest of the tree trunk and masks the original mark. District's restoration contractor will remove all tree tags at the completion of all pipeline construction.

1.6 AQUATIC BIOLOGICAL RESOURCES (3.7)

**A. EIR Mitigation Measure 3.7-2: Temporary Blow-Off Reduction**

The Contractor shall take care to construct and operate any temporary pipeline blow-offs and velocity reduction structures required for construction in a manner that complies with state or federal regulations or permits so required for these activities.

1.7 TERRESTRIAL RESOURCES (3.8)

**A. EIR Mitigation Measure 3.8-3(b): Avoid or Minimize Impacts on Special-Status Plant Populations by Modifying the Project, Protecting Special-Status Plant Populations, and Developing a Transplantation Plan (if Necessary).**

1. The Contractor shall protect any special-status plants identified on the Drawings by installing environmentally sensitive fencing (orange construction barrier fencing) around the special-status plant population as marked in the field with stakes and flagging by the District's biologist prior to initiating construction.
2. The Contractor is prohibited from performing any construction-related activities, vehicle operation, material or equipment storage, and any surface-disturbing activities within the fenced area.

**B. EIR Mitigation Measure 3.8-4: Reduce the Introduction and Spread of Invasive/Noxious Weeds**

1. The Contractor shall contact Nevada County agricultural commissions and land management agencies to develop lists of target invasive/noxious weed species, including Scotch Broom, for the pipeline route and will adopt approved measures to avoid widespread dispersal of invasive/noxious weeds.

2. If deemed necessary by land management agencies, the Contractor shall establish wash stations at locations designated and approved by the land management agencies, the District, and with the input of adjacent property owners.
3. If deemed necessary by land management agencies, equipment will be cleaned at designated locations after leaving invasive/noxious weed infestation areas.
4. All equipment coming onto the project area from weed-infested areas or areas of unknown weed status shall be cleaned of all attached soil or plant parts.
  - a. To ensure that topsoil, seeds, and mulch are free of invasive/noxious weeds, the Contractor shall use on-site sources of topsoil, mulching, and seeds when available. Topsoil, mulch, and seed shall be certified weed-free.
  - b. Only certified weed-free imported materials (or rice straw in upland areas) will be used for erosion control.
5. The Contractor shall remediate any areas where a post-construction survey, conducted by a qualified biologist, employed by the District, determines noxious weeds have been introduced. If new occurrences are detected, remedial measures such as hand removal of the noxious weed infestations will be implemented by the Contractor. No herbicides shall be used.
6. No separate payment shall be made for this work.

**C. EIR Mitigation Measure 3.8-5: Avoid Disturbance of Special-status Birds, and Non-Special-Status Migratory Nesting Birds and Raptors**

1. Surveys carried out by the Owner do not indicate that migratory bird or raptor nests are located in any areas that would be directly affected by construction activities. In the event that such nests are encountered, a no-disturbance buffer will be established around the site to avoid disturbance or destruction of the nest site until after the breeding season or after a District biologist determines that the young have fledged (usually late June to mid-July). The extent of these buffers will be determined by a District biologist, and will depend on the level of noise or construction disturbance, line of sight between the nest and the disturbance, ambient levels of noise and other disturbances, and other topographical or artificial barriers. The Contractor shall not perform construction activities within the established buffer zone that exceeds any thresholds as determined necessary by the District biologist.
2. If construction activities begin before the breeding season for the impacted birds or raptors, between August 16 and February 28 of each year, then pre-existing construction can proceed until it is determined that an active migratory bird or raptor nest would be subject to abandonment as a result of construction activities. Pre-existing construction activities are assumed to be "full force," including site grading and infrastructure development. Activities that technically initiate construction but are minor would not be considered "full force".

3. Optimally, all vegetation planned for removal should be removed before the breeding season (generally between March 1 and August 15 of each year) so that nesting birds or raptors would not occur in the construction area during construction activities. If any birds or raptors nest in the project vicinity under pre-existing construction conditions, then it is assumed that they are habituated (or will habituate) to the construction activities.
4. If active nests are identified on or immediately adjacent to the project site, then all nonessential construction activities (e.g., equipment storage and meetings) should be avoided in the immediate vicinity of the nest site, but the remainder of construction activities may proceed.
5. Payment for this mitigation measure will be based on a post-bid, negotiated cost on a case-by-case basis.

**D. EIR Mitigation Measure 3.8-8: Minimize and Avoid Project Effects on Heritage and Native Trees**

1. The Contractor shall take care to minimize tree removal (and root system disturbance) during construction to those shown on the EM Drawings as being required for removal. Contractor shall conform to the requirements of Section 01061 – Tree Preservation.
2. Trees within the Temporary Construction Easements (TCE) shall be retained unless otherwise shown on the EM drawings. Environmentally-sensitive boundary fencing as specified shall be installed at the TCE boundaries.
3. The Contractor shall not perform any construction-related activities, vehicle operation, material and equipment storage, and other surface-disturbing activities outside the TCE fenced areas unless otherwise agreed with the District or as shown on the Drawings.

**E. EIR Mitigation Measure 3.8-13: Implement Avoidance and Minimization Measures in Natural Drainages**

1. Contractor shall implement the following mitigation measures to reduce the effects of temporary blow-offs or drainages:
  - a. If the natural drainage in a particular area is subject to District-obtained environmental permits through the USACE, California Department of Fish and Game, and the Central Valley RWQCB, mitigation measures required by these permits shall be implemented. District will make permits publicly available prior to bidding.
  - b. For all other areas, the Contractor shall operate blow-offs in a manner to avoid water quality, environmental, and property damage impacts.
  - c. The Contractor shall implement mitigation measures as set out in this Specification Section 1.12 – WATER QUALITY (3.13) below to mitigate the impacts to Foothill yellow-legged frog and northwestern pond turtle.
2. No separate payment will be made for the requirements of this mitigation measure.

1.8 CULTURAL RESOURCES (3.9)

**A. EIR Mitigation Measure 3.9-2: Unanticipated Discovery of Cultural Resources**

1. If buried cultural resources, such as chipped or ground stone, historic debris, building foundations, or human bone, are inadvertently discovered during ground-disturbing activities, the Contractor shall:
  - a. Stop all Work within 100 feet of the find until a qualified archaeologist can assess the significance of the find.
  - b. Contact the District and Construction Manager immediately and other appropriate agencies.
  - c. Participate in the development of appropriate treatment measures in consultation with the District and other appropriate agencies.
  - d. If human remains of Native American origin are discovered during construction, the Contractor shall comply with State Laws relating to the disposition of Native American burials, which fall within the jurisdiction of the Native American Heritage Commission (Pub. Res. Code Sec. 5097).
2. If human remains are discovered or recognized in any location other than a dedicated cemetery, the Contractor shall stop excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent human remains and contact the District, Construction Manager and the Nevada County coroner immediately. Work in the area will remain stopped until instructed in writing from the District to resume Work.
3. Contractor is hereby made aware that according to California Health and Safety Code, six or more human burials at one location constitute a cemetery (Section 8100) and disturbance of Native American cemeteries is a felony (Section 7052). Section 7050.5 requires that construction or excavation be stopped in the vicinity of discovered human remains until the coroner can determine whether the remains are those of a Native American.
4. Payment or consideration for delays or direct costs associated with this mitigation measure will be negotiated on a case-by-case basis.

1.9 AIR QUALITY (3.10)

**A. EIR Mitigation Measure 3.10-1: Controlling Particulate Emissions.**

1. The Contractor shall complete a Project Management Plan which incorporates measures for controlling particulate emissions for the project. The plan shall be submitted to the Northern Sierra Air Quality Management District (NSAQMD) and be available for public inspection once approved. It shall include, but not be limited to, the following measures:
  - a. Given the fire hazard, no burning is permitted. Alternatives to open burning of vegetation material at the project site shall be employed. Among suitable alternatives are: chipping, mulching, or conversion to biomass fuel.

- b. The Contractor shall be responsible for ensuring that all adequate dust control measures are implemented in a timely and effective manner during all phases of construction.
  - c. All material excavated, stockpiled, or graded shall be sufficiently watered, treated, or covered to prevent fugitive dust from leaving the project construction site and causing a public nuisance or a violation of an ambient air standard. Watering shall occur at least twice daily with complete site coverage, preferably in the mid-morning and after Work is completed each day.
  - d. All areas (including unpaved roads) with vehicle traffic shall be watered at least daily (or more frequently during hot and / or dry weather at the District's direction) or have non oil-based dust palliatives applied, as necessary, for regular stabilization of dust emissions. All palliatives shall be approved by the District prior to application.
  - e. All on-site vehicle traffic shall be limited to a speed of 15 mph on unpaved roads.
  - f. All material transported off-site shall be either sufficiently watered or securely covered to prevent a public nuisance.
  - g. Nevada County and District-approved non-toxic soil stabilizers shall be applied to all inactive construction areas (previously graded areas which remain inactive for 96 hours) in accordance with the local grading ordinance. Materials that may be used for chemical soil stabilization including petroleum resins, asphaltic emulsions, acrylics, and adhesives which do not violate Regional Water Quality Control Board or California Air Resources Board standards shall also be approved for use by the District.
  - h. During initial grading, earth moving, or site preparation, a paved (or dust palliative treated) apron measuring at least 100 feet in length shall be constructed onto the paved road(s).
  - i. The Contractor shall monitor paved streets adjacent to the project and shall clear these streets of mud and silt (via wet-sweeps or spray down) as needed, to remove excessive accumulations of silt and/or mud which may have resulted from activities at the project site.
2. Prior to project completion, the Contractor shall re-establish ground cover on the site to its pre-construction condition under two scenarios: 1. along cross country routes through seeding with a District-approved seed mix. 2. along roadways through Jute net installation on the side slopes with a native flower seed mix. Watering will be in accordance with the local grading ordinance and with the provisions of these Specifications.
  3. No separate payment will be made for the requirements of this mitigation measure.

**B. EIR Mitigation Measure 3.10-2: Apply for Authority to Construct Permit**

1. The Contractor shall obtain an Authority to Construct permit pursuant to Northern Sierra Air Quality Management District (NSAQMD) Rule 401 for any source of air contaminants that exists during construction that is not exempt from permit requirements. Such requirements do not apply to motor vehicles or self-propelled construction equipment.

2. No separate payment will be made for the requirements of this mitigation measure.

**C. EIR Mitigation Measure 3.10-3: Retrofit Diesels**

1. The Contractor shall retrofit all off-road equipment with diesel particulate filters and/or diesel oxidation catalysts to reduce DPM emissions.
2. No separate payment will be made for the requirements of this mitigation measure.

1.10 NOISE (3.11)

**A. EIR Mitigation Measure 3.11-1: Construction Activity Limitations and Relocation of Residents, Domestic Animals, and Livestock.**

1. The Contractor shall limit noise-generating construction activity to daytime hours (7:00 AM to 7:00 PM) and employ noise-reducing construction practices such that noise does not exceed a maximum noise level of 75 dBA during daytime hours as measured at the nearest residence to ongoing construction. Construction will take place only on weekdays (5 day working week). A request to change this schedule by the Contractor must be made in writing and approved by the District five (5) working days in advance of the start of the requested change. The contractor shall notify the land owner within 500 feet and 48-hours before the work will take place.
2. If construction personnel arrive at the Work site earlier than the above stated times in order to ready equipment, plan for the day's work, and otherwise prepare for work, the Contractor shall instruct personnel not to turn on radios, turn on equipment, engage in other high noise-level producing activities or begin work activities before the listed times.
3. The Contractor shall employ standard noise-reducing construction practices such that construction noise does not exceed a maximum noise level of 75 dBA during daytime hours at any residence. It is noted that certain types of construction equipment and construction techniques will exceed these levels in spite of employing standard construction noise-reducing practices.
4. The Contractor shall prepare a Noise Control Plan that will identify feasible measures that can be employed to reduce construction noise. The Contractor shall implement the following as a minimum:
  - a. All construction equipment powered by gasoline or diesel engines shall have sound-control devices that are at least as effective as those originally provided by the manufacturer and that all equipment be operated and maintained to minimize noise generation.
  - b. Gasoline or diesel engines (except chain saws) shall not have unmuffled exhausts.
  - c. Noise-generating equipment shall be located as far as practical from residents.

- d. Noise-reducing enclosures shall be employed around stationary noise-generating equipment if close to residents.
  - e. The Contractor shall place temporary barriers between stationary noise sources (i.e. sources that are left in place during operation and are not self-propelled) and noise-sensitive land uses or shall take advantage of existing barrier features (terrain, structures, edge of trench) to block sound transmission.
5. No separate payment will be made for the requirements of this mitigation measure.

**B. EIR Mitigation Measure 3.11-2: Provide Public Information. Disseminate essential information to residences and implement a Complaint/Response Tracking Program.**

- 1. The Contractor shall install bulletin boards at regular intervals along the pipeline routes in visible locations agreed with the District before construction begins. The Contractor shall post on the bulletin boards and on the project website the following information, and update this information not less than weekly as construction progresses: The Contractor shall employ a full time dedicated Project Liaison Officer to liaise with the public, the Construction Manager and the District's Ombudsman concerning construction information dissemination, property owner complaints, damage claims, and the like.
  - a. A description of the construction activity that will occur during the next week;
  - b. A general schedule of activity for that week;
  - c. Measures that the contractor will be taking to control noise and vibration, and dust emissions;
  - d. Notice of any blasting expected to be undertaken and a schedule for that blasting, including the time of blasting; and
  - e. The telephone number of the Noise Disturbance Coordinator at the District.
- 2. The Contractor shall maintain its own records and track all complaints received. Complaints shall be communicated immediately on receipt to the District, the Construction Manager and the District's Ombudsman. The Contractor shall provide to the District details of remedial actions taken to address and mitigate complaints immediately after implementation.
- 3. No separate payment will be made for the requirements of this mitigation measure.

**C. EIR Mitigation Measure 3.11-3: Minimize Exposure of Residences to Vibration from Construction Equipment.**

- 1. The Contractor shall minimize the exposure of residences to vibration from construction equipment.
- 2. The Contractor shall employ measures to minimize vibration which may include but are not limited to locating and/or relocating portable air compressors, air blown concrete appliers, electrical generators and welding machine equipment to avoid prolonged exposure to residents from vibration.

3. No separate payment will be made for the requirements of this mitigation measure.

**D. EIR Mitigation Measure 3.11-5: Employ Measures To Reduce Air Blast and Vibration from Blasting.**

1. If blasting is approved as a construction method as a last resort by the District, the Contractor's qualified blasting specialist will develop a site-specific blasting program report to assess, control, and monitor air blast and ground vibration from blasting. The report shall include, at a minimum, information regarding the Contractor's adherence to the following measures:
  - a. The Contractor shall use current state-of-the-art technology to keep blast-related vibration at offsite residential and other occupied structures as low as possible, consistent with blasting safety. In no instance shall blast vibration, measured on the ground adjacent to a residential or other occupied structure, be allowed to exceed the frequency-dependent limits specified in the Alternative Blasting Level Criteria contained in United States Bureau of Mines (USBM) Report of Investigations 8507.
  - b. The Contractor shall use current state-of-the-art technology to keep air blast at offsite residential and other occupied structures as low as possible. In no instance shall air blast, measured at a residence or other occupied structure, be allowed to exceed the 0.013-psi (133-dB) limit recommended in USBM Report of Investigations 8485.
  - c. Where residences and other occupied structures are within 1,000 feet of a blast, the Contractor shall monitor and record air blast and the vibration of the blasts to verify that measured levels are within the recommended limits at those locations. Monitoring shall take place at the residence or occupied structure that is nearest the blast. The Contractor shall use blasting seismographs containing three channels that record in three mutually perpendicular axes and which have a fourth channel for recording air blast. The frequency response of the instrumentation shall be from 2 to 250 Hz, with a minimum sampling rate of 1,000 samples per second per channel. The recorded data must be such that the frequency of the vibrations can be determined readily. If blasting is found to exceed specified levels, blasting shall cease, and alternative blasting or excavation methods that result in the specified levels not being exceeded shall be employed.
  - d. The Contractor shall hire a qualified and experienced firm approved by the District to perform pre- and post-construction inspection of residences and other occupied structures within 500 feet of the blast site. This firm shall prepare a report of pre- and post-blast condition of the residence or other structure, including videotaping of foundation and structure conditions to record pre-and post blasting conditions. The Contractor shall repair all damage identified in the report that is the result of blasting at his own expense.
  - e. The District and Contractor will confer with all property owners with residences or structures within 1,000 feet of blasting operations to fully inform them of blasting procedures and schedule. A copy of inspection reports shall be made available to the appropriate property owners on request.

2. Air blast and vibration monitoring shall take place at the nearest offsite residential or other occupied structure. If vibration levels are expected to be lower than those required to trigger the seismograph at that location, or if permission cannot be obtained to record at that location, recording shall be accomplished at some closer site in line with the structure.
3. Contractor shall document, in detail, specific locations and distances where air blast and vibration are measured along with the measured air blast and vibration amplitudes.

1.11 TRANSPORTATION (3.12)

**A. EIR Mitigation Measure 3.12-1: Obtain Encroachment Permit.**

1. As detailed elsewhere in these Specifications, and prior to the commencement of construction activities, the District shall obtain an encroachment permit for all Work in Nevada County rights-of-way and coordinate closely with the County Department of Transportation to implement approved traffic control measures detailed on approved Traffic Control Plans. The Contractor shall comply with all conditions of the encroachment permits.
2. On private roads that are not subject to an encroachment permit and where a detour is not offered, the Contractor shall apply appropriate traffic control measures based on the measures that apply to County encroachment permits.
3. No separate payment will be made for the requirements of this mitigation measure.

**B. EIR Mitigation Measure 3.12-2: Contact Property Owners.**

1. The Contractor shall, prior to commencing local construction that might directly impact driveway access, communicate at least 48 hours in advance with property owners whose driveway access may be affected. Construction activities will be scheduled to minimize disruption to driveway access. Pedestrian access to residents' properties shall be provided at all times.
2. Where necessary as a result of construction scheduling, the Contractor shall install temporary traffic plates across open trenches of a width allowing the customary use of such traffic plates to provide access to local residences. Temporary traffic plates shall be placed across any open trenches at access locations at the end of each work day, subject to the provisions detailed elsewhere in these Specifications.
3. No separate payment will be made for the requirements of this mitigation measure

**C. EIR Mitigation Measure 3.12-3: Lane Availability**

1. The Contractor shall comply with the Traffic Control Plans as defined in the Contract Drawings and Specifications and as approved as part of the Nevada County Encroachment Permit(s).

2. The Contractor shall maintain one lane of traffic along all County-maintained roadways, where a detour is not possible or is not offered, with delays not exceeding twenty minutes during daylight hours.
3. The Contractor shall clear and open to through traffic, at night and after construction work concludes for the day, both traffic lanes along all County-maintained roadways, per Nevada County Department of Transportation requirements.
4. The Contractor shall maintain one lane of traffic along all private roadways, where a detour is not possible or is not offered, with delays not exceeding twenty minutes during daylight hours.
5. The Contractor will maintain access for emergency vehicles at all times.
6. The Contractor will identify any residents with medical needs that could be adversely impacted by delays of access in excess of twenty minutes. Contractor will arrange for their temporary relocation, if requested, while construction passes their residences and delays in excess of twenty minutes could result.

The Contractor shall clear and open to through traffic, at night and after construction work concludes for the day, at least one lane along private roadways with turnouts for opposing traffic at least every 500 feet, where a detour is not possible or is not offered.

**D. EIR Mitigation Measure 3.12-4: Truck Routes**

1. The Contractor shall require that all construction truck trips utilize the Truck Haul Routes included in the Traffic Control Plan drawings and as approved as part of the Nevada County Encroachment Permit.
2. This mitigation measure does not pertain to the movement of people, equipment, and materials using light motor vehicles.

**E. EIR Mitigation Measure 3.12-5: Workers' Parking**

1. The Contractor shall require that construction workers' personal vehicles, when not in use, be parked at a staging area or other suitable area at all times and shall not block or otherwise interfere with normal residential traffic. The Contractor shall be responsible for locating and proposing suitable Staging Areas, subject to agreement with the Staging Area property owner for such use, and subject to the District's review and approval.

**F. EIR Mitigation Measure 3.12-6: Repair of Direct Damage**

1. For all privately-owned, project area roadways used routinely for construction-related ingress and egress, the Contractor shall be responsible for repairing damage to the roadway caused by his construction activities. Reference shall be made to pre-construction surveys and records to determine the extent of damage.

2. The Contractor shall restore private roadways directly utilized for pipeline installation within the roadbed to as good or better condition, in accordance with the Contract Drawings and Specifications. The Contractor shall reconstruct roadways in accordance with the Contract Drawings and Specifications in order to provide a structural section capable of supporting construction traffic and minimizing impact loads to the new pipelines.
3. If construction has not been completed along Wings of Morning Drive by October 15 of the construction year, Contractor shall pave those portions of the road where pavement had been removed and pipeline construction has been completed.
4. When a roadway has been installed as part of this project for temporary ingress/egress, the Contractor shall ensure that the roadway is closed upon completion of the project. The Contractor shall re-vegetate the temporary roadway to the extent vegetation existed before the project began. Re-vegetation shall be accomplished pursuant to EIR Mitigation Measure 3.6-3: Implement Measures to Reduce Visual Intrusion Post Construction and in accordance with these Specifications.

**G. EIR Mitigation Measure 3.12-7: School Bus Provisions**

1. The Contractor shall maintain existing school bus stops along Banner Lava Cap Road and Idaho Maryland Road, and any other school bus stops that may be established on Wings of Morning Drive, Madrone Forest Drive, Red Gate Road and Lee Lane throughout construction activities. To ensure the safety of school children, the Contractor shall coordinate the installation of appropriate traffic controls and speed limit signs in accordance with the Traffic Control Plans and the Contract Drawings and Specifications, and rigorously maintain proper control at all school bus loading zones. The Contractor shall ensure that all construction-related trucks are of legal size carrying legal loads, and maintaining posted speeds.
2. The Contractor shall coordinate construction activities with the school district. The Contractor will provide temporary bus stops at locations away from construction work zones when existing bus stops are within the work zone. The Contractor shall ensure that students and parents walking to and from a temporary bus stop are separated and protected from the construction work zone. Temporary bus stops and protected walking zones shall be in accordance with the Traffic Control Plans, the Contract Drawings and the Contract Specifications.

1.12 WATER QUALITY (3.13)

**A. EIR Mitigation Measures 3.13-1, 3.13-2, 3.13-3, 3.15-1 and 3.15-2: Construction Best Management Practices to avoid impacts to water quality from construction activities and stormwater run-off; Erosion Control Methods During Construction; and Reduction of Soil Erosion**

1. The Contractor shall implement the following construction best management practices (SWPPP/BMPs) to avoid adverse erosion and sedimentation and related environmental impacts from construction activities associated with pipeline construction. The Contractor shall implement additional measures

provided in Section 02250 – Erosion and Sedimentation Control or elsewhere in these Contract Specifications. The Contractor shall submit the SWPPP for District's review and approval. Procedures or measures implemented shall minimize soil erosion, stream sedimentation, habitat alteration, and the potential for chemical contamination of creek waters.

2. The Contractor shall ensure that soil erosion will be reduced by minimizing the time of soil disturbance and avoiding construction during periods of maximum runoff. The Contractor shall employ additional procedures and measures during construction as required in its SWPPP plus the following measures which will include, but not be limited to the following:
  - a. The Contractor shall install temporary erosion controls after vegetative clearing but prior to excavation. The Contractor shall properly maintain erosion controls throughout construction and repair within 24 hours when found ineffective.
  - b. The Contractor shall cover bared areas with mulch or erosion control matting to reduce surface erosion following construction. The Contractor shall use mulch, which can consist of rice straw, hay, or erosion control fabric, to stabilize the soil surface, subject to the provisions of this Specification to prevent introduction of weeds and invasive species.
  - c. Contractor shall re-vegetate soils disturbed by project-related activities in accordance with the Contract Drawings and Specifications and in a manner consistent with District practices.
  - d. The Contractor shall use hydro-seed seed mixtures approved by the District in cross country alignments and jute net and approved native flower seed for side slopes along roadways alignments.
  - e. In the event of actual or threatening rain, the Contractor shall check, repair and replace erosion control measures repaired, and replaced prior to and during the storm event, as necessary. The Contractor shall routinely inspect hydro-seeded areas during winter months for the duration of construction.
  - f. The Contractor shall stockpile, within the limits of a water containment berm, all excavated or re-graded material to be reused on site that has a soil moisture content too high for the intended placement in accordance with the Specifications
  - g. The Contractor shall stockpile, within the limits of a water containment berm, excavated material that is to be off-hauled but is saturated in accordance with the Specifications.
  - h. The Contractor shall construct temporary slope breakers (such as soil berms, silt fences, staked hay or rice straw bales, or sand bags) on the contour across the pipeline right-of-way, using the written recommendations of the local soil conservation authorities. In the absence of these recommendations, temporary slope breakers shall be installed at the following spacing:
    - 1) 5 to 15 percent slopes at 300 feet,
    - 2) 15 to 30 percent slopes at 200 feet, and
    - 3) greater than 30 percent slopes at 100 feet.
  - i. The Contractor shall ensure the outfall of the slope breakers are directed to a stable, well-vegetated area and shall ensure energy is

- dissipated at the end of the slope breaker and off the pipeline easements.
- j. The Contractor shall install sediment barriers (such as silt fences and/or staked hay or rice straw bales, or sand bags) at the base of slopes adjacent to road crossings in accordance with this specification and Section 02250 – Erosion and Sedimentation Control. These barriers shall be installed to prevent siltation into water bodies or wetlands crossed by or near the construction work area, and will remain in place until re-vegetation is established.
  - k. The Contractor shall segregate excavated topsoil in all areas outside of roadways within the TCE.
  - l. The Contractor shall install trench breakers constructed of materials such as sandbags, grout, concrete, or high density polyethylene (HDPE), to slow the flow of subsurface water along the trench if determined to be needed by the District, and where shown on the Contract Drawings.
  - m. The Contractor shall re-vegetate soils disturbed by project-related activities in accordance with the Contract Drawings and Specifications and consistent with approved District practices.
  - n. The Contractor shall install off-road vehicle control measures, where necessary, which shall include signs, fences with locking gates, slash and timber barriers, pipe barriers, or a line of boulders across the right-of-way.
  - o. The Contractor shall inspect and re-seed or re-vegetate, as required by the District, after the first and second growing season following completion of construction. All seed mixtures shall be approved by the District prior to use and shall consist of existing vegetation seed types at each site.
3. Additional procedures and measures are required of the Contractor during the pipeline creek-crossing construction process (see EIR Mitigation Measure 3.13-5 below).

**B. EIR Mitigation Measure 3.13-4: Avoiding Impacts to Receiving Waters.**

- 1. The Contractor shall protect against temperature, turbidity, and sedimentation impacts to receiving waters by controlling the rate of discharge to receiving waters whenever discharges occur.

**C. EIR Mitigation Measure 3.13-5: Wolf Creek and Other Creek Crossings**

- 1. The Contractor shall complete construction within Wolf Creek and the unnamed creek within the limits of parcel APN 06-380-63 between June 1 and September 30 of each construction year to avoid periods of stormwater runoff and salmonid spawning and egg incubation. The Contractor shall implement the additional procedures and measures listed below during the pipeline creek-crossing construction. The Contractor is directed to EIR Mitigation Measure 3.13-3 for general pipeline mitigation requirements.
- 2. Minimize Creek Sedimentation. The Contractor shall implement the following procedures and measures to minimize and/or avoid the release of sediments into waterways during and following construction in the area of creek-crossings:

- a. Minimize area of land to be cleared.
  - b. Re-vegetate all cleared areas (except the pipeline itself) within 100 ft of the creek with District – approved native grasses and forbs following completion of construction activities, weather and soil conditions permitting.
  - c. Equipment operation in flowing water of the stream shall be minimized and limited to construction of a coffer dam or trench shoring system, if needed.
  - d. Water from aggregate washing, pumping from within the stream to dewater work areas, or other operations that create turbid water, will be treated by filtration to minimize suspended sediments in water returned to the creek. Temporary sedimentation barriers, such as sandbags, silt screen, or hay bales, shall be installed to minimize sediment transport from areas where sediment releases could occur. Alternatively, turbid water pumped to dewater the work area can be sprayed on terrestrial areas adjacent to the creek at a rate which the terrestrial area could contain the water without overflow into local waterways or stormwater drainages.
  - e. The Contractor shall complete final cleanup of an area (including final grading and installation of permanent erosion control structures if required) at the earliest date after disturbance.
3. Minimize Habitat Alteration. The Contractor shall implement the following measures to minimize habitat alteration to riparian habitat and area drainage patterns in the construction corridor.
- a. Tree removal will be based on prior discussions with property owners during the easement acquisition process. The number of trees and shrubs to be removed within and adjacent to the construction corridor shall be minimized.
  - b. Stream substrate shall be returned within and immediately downstream of the construction site to its pre-construction characteristics. To facilitate this, all streambed substrate materials to a depth of 12-18" within the excavation corridor will be removed (prior to trenching and pipeline placement) and set aside. These streambed materials shall then be replaced upon completion of construction.
  - c. Following pipeline installation, the streambed and creek banks within the construction site shall be returned to their pre-construction state. This shall also be done for any minor drainages crossed by the pipeline corridor.
4. Avoid fish barriers, entrainment, and stranding. The Contractor shall employ the following construction techniques to avoid blocking, entraining, or stranding fish during the pipeline installation at creek crossings:
- a. A temporary culvert shall be installed to divert stream flow around or over the active in-channel construction area. The culvert shall be placed in a manner that minimizes the amount of creek bed disturbance and sedimentation caused when the creek is temporarily diverted through the culvert to bypass flows around the active construction corridor.
  - b. The Construction Schedule shall be limited to avoid in-river activities when adult brown trout and rainbow trout could be migrating to

spawning grounds. The construction window has been defined as June 1 through September 30 of each year.

5. Avoid chemical contamination. The Contractor shall develop contamination prevention guidelines to prevent raw cement, concrete or concrete washings, asphalt, paint or other coating material, oil or other petroleum products, or any other substances that could be hazardous to aquatic life from contaminating the soil or entering water at the site. These guidelines shall include the following specific procedures/measures:
  - a. The Contractor shall prepare a Spill Prevention Plan prior to construction. The plan shall include strict onsite handling rules to keep construction and maintenance materials out of the waterway.
  - b. The Contractor shall institute a mandate to clean up any accidental spills immediately in accordance with the Spill Prevention Plan.
  - c. The Contractor shall provide staging and storage areas that are hydraulically isolated from the stream for storage of, and handling of, equipment, materials, fuels, lubricants, solvents, and other possible contaminants.
  - d. The restoration contractor will develop a restoration plan for the project alignment. This plan will be available on the project website.
  
6. Qualified biological oversight. A qualified biologist, provided by the District, will be on site during construction at creek crossings to assist in the implementation of the above procedures and measures. The Contractor shall coordinate Work with the biologist. Specifically, the biologist will conduct the following activities:
  - a. Delineate all areas that require clearing, grading, re-vegetation, and re-contouring. The objective is to minimize disturbance, which could lead to stream sedimentation or habitat losses.
  - b. Monitor turbidity downstream during construction to assess the need for, and success of, extra sedimentation reduction methods.
  - c. Observe that all procedures and measures outlined herein are being followed by the Contractor.

#### 1.13 PUBLIC SERVICES / PUBLIC HEALTH AND SAFETY (3.14)

##### **A. EIR Mitigation Measure 3.14-1: Fire Protection Plan**

1. The Contractor shall coordinate with the Nevada County Consolidated Fire District to prepare a Fire Protection Plan for construction activities. The Fire District shall approve the plan before construction begins in areas with high fire hazards, which includes all cross-country routes. If blasting is to be undertaken, the Operations Plan required by the Fire District shall be part of the Fire Protection Plan. This Plan will include the following measures.
  - a. The Contractor shall keep all construction sites and staging areas free of grass, brush, and other flammable materials.
  - b. The Contractor's work crews shall have fire-extinguishing equipment on hand, as well as emergency numbers and cell phones, or other means of contacting the Fire Protection District. For machinery being operated within 50 feet of trees or brush, a minimum 500-gallon water truck shall

- be kept on site at all times during construction, and shall be available to perform a pre-watering program prior to scarification of any site and to provide a fire fighting water supply.
- c. Work crews shall notify the Fire District of locations where they are working when in locations of potential fire danger on any given day.
  - d. All machinery shall have spark arrestors.

**B. EIR Mitigation Measure 3.14-2: Prepare and Implement a Spill Prevention Control and Countermeasures Plan**

1. The Contractor shall develop and implement a Spill Prevention Control and Countermeasures Plan (SPCCP) to minimize the potential for, and effects from, spills of hazardous, toxic, or petroleum substances during construction activities. The SPCCP shall be completed before any construction activities begin on the project. Implementation of this measure shall comply with State and Federal water quality regulations.
2. The Contractor shall complete the SPCCP and provide it to the District for review and approval before the onset of construction activities. The Contractor shall cooperate with the District during routine inspection of the construction area to verify that the measures specified in the SPCCP are properly implemented and maintained. The District will ensure that the Contractor is notified immediately if there is a noncompliance issue and the Contractor shall immediately resolve issues to bring all activities back into compliance.
3. The Federal reportable spill quantity for petroleum products, as defined in EPA's CFR (40 CFR 110), is any oil spill that 1) violates applicable water quality standards, 2) causes a film or sheen upon or discoloration of the water surface or adjoining shoreline, or 3) causes a sludge or emulsion to be deposited beneath the surface of the water or adjoining shorelines.
4. If a reportable spill occurs, the Contractor shall notify the District immediately and arrange for the appropriate safety and cleanup crews to ensure the Spill Prevention Plan is followed. The Contractor shall submit a written description of reportable releases to the Regional Water Quality Control Board. This submittal must include a description of the release, including the type of material and an estimate of the amount spilled, the date of the release, an explanation of why the spill occurred, and a description of the steps taken to prevent and control future releases. Contractor shall document all spills or releases on a spill report form.
5. If a spill has occurred, the District will coordinate with responsible regulatory agencies to implement measures to control and abate contamination.

**C. EIR Mitigation Measure 3.14-3: Coordinate with Public Utility Service Providers**

1. The Contractor shall coordinate with service providers before project construction starts to ensure the continuation of public utility services during construction. The Contractor is directed to the Contract Drawings which show approximate locations of utility lines and other public utilities services in the area. The Contractor shall be responsible for accurate location, and avoidance of, all utilities potentially impacted by his construction activities.

2. The Contractor shall notify a service provider in advance of all service interruptions and will be given sufficient time to notify customers 24 hours in advance. The Contractor shall coordinate the timing of interruptions with the providers to ensure that the frequency and duration of interruptions are minimized.
3. The Contractor shall contact Underground Service Alert (USA) at least 48 hours before excavation Work begins, in order to verify the nature and location of existing underground utilities. In addition, the Contractor will notify and coordinate with public and private utility providers at least 48 hours before the commencement of Work adjacent to any existing utility, unless the excavation permit specifies otherwise. The timing of interruptions shall be coordinated with the providers and impacted property owners to ensure that the frequency and duration of interruptions are minimized.
4. Prior to construction the District will also consult with branch offices of the U.S. Postal Service to coordinate delayed mail delivery, and Waste Management, Inc of Nevada County to coordinate delayed solid waste collection service.

**D. EIR Mitigation Measure 3.14-4: Coordinate with Emergency Services**

1. The Contractor shall coordinate closely with emergency service providers in the project area, including the Sheriff's Department and the Nevada County Consolidated Fire Protection District, and agree to an emergency access plan prior to construction. The Contractor shall also inform property owners on private roads of the emergency access plan. The plan shall establish communication protocols, identify specific sites where vehicles or materials can be moved if necessary to make room through any access choke points, and train work crews to ensure that they know the protocol to allow an emergency responder through the construction area. Training shall include a verbal review of the protocol at a tailgate meeting at the start of each work day. The Contractor shall cooperate with emergency service providers, including moving equipment and materials to backfill trenches, install traffic plates, if available, and to accommodate emergency traffic. Equipment shall be moved out of the roadway at the end of each workday to ensure that access will be available at night where a detour is not available.
2. The Contractor will identify any residents with medical needs that could be adversely impacted by delays of access in excess of twenty minutes. Contractor will arrange for their temporary relocation, if requested, while construction passes their residences and delays in excess of twenty minutes could result.

1.14 GEOLOGY AND SOILS (3.15)

**A. EIR Mitigation Measure 3.15-3: Limits on Soil Compaction**

1. The Contractor shall limit soil compaction outside of roads and other traveled ways. Mitigation measures to limit soil compaction shall include the following:

- a. Scheduling heavy construction and restoration activities to avoid excessively wet periods;
- b. For portions of the pipeline in unpaved areas, subsurface plowing outside of the drip line of any tree of 8-inches breast height diameter or larger in accordance with the provisions of Specification Section 02900 - Planting;
- c. Following construction of the proposed pipeline, re-vegetation of areas of exposed soil with grasses (i.e., hydro-seeded) using a seed mix approved by the District.

**B. EIR Mitigation Measure 3.15-4: Minimize Changes to Drainages**

1. The Contractor shall implement measures to minimize changes to drainages. These measures shall include returning the right-of-way to its pre-construction contours (if applicable) and seeding grass-covered disturbed areas where appropriate. For areas where it will be necessary to permanently change pre-construction contours, drainage patterns shall be restored to resemble prior conditions. Final grading and cleanup shall be completed after backfilling of the trench in that area, weather and soil conditions permitting. The seeding shall take place after final grading, weather and soil conditions permitting. Slopes steeper than 30 percent shall be seeded immediately after final grading, weather and soil conditions permitting. All re-seeding shall be accomplished in accordance with other mitigation measures in this specification, as appropriate and in accordance with Section 02250 – Erosion and Sedimentation Control.

**C. EIR Mitigation Measure 3.15-5: Minimize Expansive Soils Hazards**

1. The Contractor shall undertake measures to minimize hazards from expansive soils, if encountered during construction, and if the presence of these soils would be hazardous to facilities or roads, as determined by the District. Mitigation measures shall include the removal and replacement of the high shrink-swell potential soils within the pipeline trench with engineered fill.
  - a. Payment for the requirements of this mitigation measure will be negotiated on a case-by-case basis.
  - b. Appropriate notification will be implemented to the residences surrounding the work zone.

**D. EIR Mitigation Measure 3.15-6: Minimize Potential to Release Hazardous Materials.**

1. The Contractor shall employ Best Management Practices (BMPs) as part of the Contract Storm Water Pollution Prevention Plan (SWPPP) to prevent contamination of soil and storm water by the inadvertent release of hazardous materials. The BMPs shall include a Spill Prevention and Control Plan that includes, but are not limited to, the following, as appropriate:
  - a. Provide secondary containment for hazardous material delivered in bulk to storage areas to prevent spills or leakage of fluid materials from contaminating soil or soaking into the ground;
  - b. Cover dumpsters and waste containers containing hazardous materials;
  - c. Designate storage areas for hazardous construction wastes;

- d. Provide for proper storage of hazardous materials, paints, and related products;
  - e. Train employees on the proper use of materials such as fuel, oil, asphalt and concrete compounds, acids, glues, solvents, etc.;
  - f. Timely removal of hazardous construction wastes;
  - g. Store all liquid wastes in covered containers; and
  - h. Use portable toilet facilities managed by a licensed supplier.
2. In the event that contaminated soil is encountered, work activities in this area will cease until appropriate regulatory agency representatives have been consulted and authorization to proceed has been obtained.

**PART 2 PRODUCTS**

NOT USED

**PART 3 EXECUTION**

NOT USED

END OF SECTION