

TABLE OF CONTENTS

<u>NO.</u>	<u>TITLE</u>	<u>PAGE</u>
B-1	INTRODUCTION/BACKGROUND	4
B-2	OBJECTIVE	4
B-3	DESCRIPTION OF WORK	5
B-4	PERSONNEL REQUIREMENTS	19
B-5	TECHNICAL SPECIFICATIONS AND DRAWINGS	22
B-6	PLACE OF PERFORMANCE	23
B-7	CLEARANCE REQUIREMENTS	24
B-8	SPECIAL REQUIREMENTS	24
B-9	ENVIRONMENTALLY PREFERABLE PRODUCTS	27
B-10	MEETINGS	27
B-11	SUBMITTALS	28
B-12	DELIVERABLES	29
B-13	PROJECT CONTROLS, MILESTONES & PERFORMANCE SCHEDULE REQUIREMENTS	29
B-14	APPENDIX	29

LIST OF ACRONYMS

Acronym	Definition
ACM	Asbestos Containing Material
CAP	Contractor Acquired Property
CM	Construction Manager
EPP	Environmentally Preferable Products
ES&H	Environmental Safety and Health
GFE	Government Furnished Equipment
GFP	Government Furnished Property
LAO	Los Alamos Operations at Los Alamos, NM
LO	Livermore Operations at Livermore, CA
M&O	Maintenance and Operation
MSTS	Mission Support and Test Services, LLC
NFO	Nevada Field Office
NLV	North Las Vegas Facility
NNSA	National Nuclear Security Administration
NNSS	Nevada National Security Site
PULSE	Primary Underground Laboratory Subcritical Experimentation.
RCM	Radiological Control Manual
RGD	Radiation-Generating Devices
RPP	Radiation Protection Program
RSLA	Remote Sensing Lab at Andrews AFB, Maryland
RSLN	Remote Sensing Lab at Nellis AFB, North Las Vegas, NV
RWP	Radiological Work Permit
SME	Subject Matter Expert
SSSP	Site-Specific Safety Plan
STL	Special Technologies Lab at Santa Barbara, CA
STR	Subcontract Technical Representative
IDIQ	Indefinite Delivery/Indefinite Quantity
TOR	Task Order Release
NDOT	Nevada Department of Transportation
RTC	Regional Transportation Commission of Southern Nevada
FHWA	Federal Highway Administration

Acronym	Definition
HMA	Hot Mix Asphalts
PCC	Plain Cement Concrete
<u>CMP</u>	Corrugated Metal Pipe
CLSM	Controlled Low-Strength Material
PVC	Polyvinyl Chloride
NESC	National Electrical Safety Code
IBC	International Building Code
BOI	Beneficial Occupancy Inspection
BA	Building Authority
ABA	Architectural Barriers Act
CSM	Certified Safety Manager

B-1 INTRODUCTION/BACKGROUND

1.1 Introduction

The Nevada National Security Site (NNSS) is a U.S. Department of Energy, National Nuclear Security Administration (NNSA) installation, operated by Mission Support and Test Services, LLC (MSTS or CONTRACTOR), comprising approximately 3,561 square kilometers (1,375 square miles) of federally owned land located in southeastern Nye County, Nevada. Located approximately 105 kilometers (65 miles) northwest of Las Vegas, Nevada, the NNSS is accessed from U.S. Highway 95, which roughly forms the southern boundary of the site.

The MSTS also operates the North Las Vegas Facility (NLV); the Remote Sensing Lab at Nellis AFB, North Las Vegas, NV (RSLN); the Remote Sensing Lab at Andrews AFB, Maryland (RSLA); Special Technologies Lab at Santa Barbara, CA (STL); Livermore Operations at Livermore, CA (LO); and Los Alamos Operations at Los Alamos, NM (LAO).

1.2 Background

The aging roads at the Nevada National Security Site (NNSS) have supported 40+ years of nuclear testing. The NNSS is required to not only support continued testing but also a variety of evolving current and proposed operations. Many of these operations require locations in remote areas of the site. Due to the high risk to national security the roads also provide for swift and timely responses from Security, Fire Response, and other emergency services. The roads at the NNSS also provide safe transport of hazardous materials and other hazardous waste.

Over the years three basic types of road construction have been used. Primary roads, such as Mercury Highway, have generally been constructed of asphalt concrete and maintained with chip and seal. The secondary roads utilize road mix asphalt or multiple layers of chip and seal. The roads have suffered compounding deterioration and received just enough maintenance and repair to keep them serviceable.

B-2 OBJECTIVE

MSTS requires the services of an experienced SUBCONTRACTOR to provide work defined in this Indefinite-Delivery/Indefinite-Quantity (IDIQ) Master Agreement. This Master Agreement Statement of Work (SOW) consist of multiple disciplines in general construction categories. It may involve design services for all aspects of general construction including construction, modifications, and renovations of existing and new roads and utilities. Work may include but is not limited to: maintenance, repair, alteration, demolition, painting, paving and earthen work for new and current roads and/or infrastructure. This Master Agreement SOW provides the framework from which the CONTRACTOR may issue individual Task Order Releases authorizing the SUBCONTRACTOR to perform the work.

The purpose of this Subcontract is to procure parking and road maintenance/paving services on a Task Order Release (TOR) basis. The SUBCONTRACTOR is to supply the labor, materials, and equipment to prepare parking areas and roads to be striped, pulverized, and compacted, bituminous material, fine grading with approved aggregate, tack coat, single/double chip, asphalt pavement, fog seal, traffic signing, and pavement markings with specifications within the SOW provided by the CONTRACTOR. Areas to be addressed may include access roads and other paved areas adjacent to the existing parking areas.

NNSS roads cover the entire site and generally range in width from 24-26 feet wide. The road will include two (2) 11 to 12 foot wide travel lanes and two (2) one-foot wide paved shoulders and by-pass roads depending on location.

Parking areas will be marked by the CONTRACTOR and designated as to which maintenance/paving service applications are to be used.

This Subcontract is for a five-year period with Task Order Releases issued for specific scopes during this Subcontract period. All Task Order Releases issued will have specific requirements based on location and square footage involved.

B-3 DESCRIPTION OF WORK

The SUBCONTRACTOR shall provide technically qualified resources that work as a part of a team under the direct oversight of MSTs. SUBCONTRACTOR resources shall be responsible for independent planning, organizing, and performing a wide variety of non-hazardous specialized administrative/technical duties in support of the successful completion of goals and deliverables. Additionally, the SUBCONTRACTOR shall furnish all necessary labor, technical and professional services, supervision, materials, tools, equipment, consumables, and payment of any applicable taxes to perform all operations necessary and required to perform the scope as directed by MSTs.

Unless otherwise approved, the SUBCONTRACTOR shall work in accordance with MSTs subcontract requirements, operating policies and procedures and shall be responsible for execution of the work in accordance with the quality standards and requirements specified for the assigned project and facility.

Individual task orders consisting of one or more projects shall be awarded under this IDIQ subcontract. The scope of each project shall include, but not be limited to, one or more of the line items described in the following subparagraphs. Note the term demolition or remove includes haul and disposal of material at the NNSS to the appropriate disposal site on the NNSS. Disposal of materials from NLV and RSL-N will be taken to the appropriate disposal site in town. The SUBCONTRACTOR shall provide and install all safety barricades, traffic control items and signs necessary to meet traffic control requirements. Minimum quantities for each line item per phase of each project are listed on the bid schedule. Projects may also include design work of varying levels of complexity.

3.0.1 Definitions:

- **As-Built Drawings:** Drawings prepared by the SUBCONTRACTOR in sufficient detail in accordance with this SOW to accurately reflect the project as constructed, complete with all changes, modifications, and deletions from award drawings. The revisions from Contractor Markups and field inspection notes are transferred in CAD to the final as-built set of drawings. The final as-built drawings include modifications during construction, field requested changes, shop drawing modifications, and contractor designs.
- **CONTRACTOR-Furnished Items:** Items (e.g., equipment, facilities, materials, services, etc.) provided by the CONTRACTOR to the SUBCONTRACTOR for use in performance of this contract, including issued task orders.
- **Final Inspection:** The final examination held by the CONTRACTOR to verify that all work requirements (including clean-up) have been satisfactorily accomplished by the SUBCONTRACTOR.
- **Limited Area:** Area of performance on Government property with heightened security requirements within which the SUBCONTRACTOR is not allowed free access to the work site, cannot enter and exit freely, and will be required to be under escort at all times during performance of the project. Escorts shall be provided by the CONTRACTOR and must adhere to a ratio of at least 1 escort per 10 persons within sight. Personnel and equipment entry may be subject to delays due to security processing.
- **Match Existing:** A term used to describe the exactness to which we require a new and old product to match. "Match existing" requires that a thorough or exhaustive effort be made on the part of the SUBCONTRACTOR to match as close as possible an existing finish, product, color, texture, sheen, etc. This may mean the use of custom matching of colors or providing manufacturers "non-standard" material selections during the submittal process.
- **Pre-Construction Conference:** A meeting attended by designated representatives of the CONTRACTOR and the SUBCONTRACTOR after project award but before the start of work to discuss all aspects of the required work for a specific project.

- **Pre-Final Inspection:** The quality control examination held by the SUBCONTRACTOR to identify and correct all work discrepancies prior to requesting a final inspection by the CONTRACTOR. It is encouraged to have Government representation on-site during the Pre-Final Inspection.
- **Professional Certification:** The process of affixing a seal or statement to a drawing or design document to indicate that the work to which it is affixed has been performed by a person licensed as a professional, in that area of expertise, in the state of Nevada.

3.0.2 Locations:

The project sites is/are located at the NNSS, North Las Vegas Offices, and the Remote Sensing Lab at Nellis AFB. Locations will be identified in each TOR.

- **Nevada National Security Sites (NNSS):** NNSS is located approximately sixty-five (65) miles northwest of Las Vegas off exit 136 of Highway 95. The NNSS is approx. 1,350 square miles and has approx. 380 miles of paved roads. The specific project location is indicated in the individual TORs. Work in this location will comply to Nevada Department of Transportation (NDOT) specifications and plans, unless requested by Contractor.
- **North Las Vegas Offices:** The North Las Vegas Offices are located on Losee Rd just south of Cheyenne Ave. The specific project location is indicated in the individual TORs. Work in this location will comply to Regional Transportation Commission of Southern Nevada (RTC) specifications and drawings, unless requested by Contractor.
- **Remote Sensing Lab:** The Remote Sensing Lab is located in Area III on Nellis AFB which is located at the intersection of Las Vegas Blvd and Craig Rd. The specific project location is indicated in the individual TORs. Work in this location will comply to Regional Transportation Commission of Southern Nevada (RTC) specifications and drawings, unless requested by Contractor.

3.0.3 Commencement of Work: No work under this contract shall commence until such a time as the PS issues a written TOR.

3.0.4 CONTRACTOR Provided Services/Supplies

- CONTRACTOR will make construction water available if needed.
- CONTRACTOR to conduct site visit(s) with SUBCONTRACTOR prior to issuing each TOR.
- CONTRACTOR to provide lay down yard.
- **Required Construction Aggregates**

CONTRACTOR will provide material. SUBCONTRACTOR shall include trucking and transportation from Shaker Plant in Area 6 to the respective construction site(s). SUBCONTRACTOR trucking shall be dump style truck or single trailer combination vehicle ONLY. SUBCONTRACTOR shall provide estimated quantities of material needed to CONTRACTOR.

SUBCONTRACTOR shall utilize the following NNSS aggregates:

- Aggregate
- 6" Minus Pit Run Aggregate
- 3" Minus Pit Run Aggregate
- Rip Rap
- NDOT NNSS Type II Aggregate
- ½" Washed Aggregate
- 3/8" Washed Aggregate
- Washed Sand

3.0.5 SUBCONTRACTOR Services Required for Each Task Order Release

- Provide adequate traffic control in accordance with FHWA Manual on Uniform Traffic Control Devices (2009) and the SUBCONTRACTOR's Traffic Control Plan in the work area up to and including diversion around construction area to provide NNSS personnel and emergency security passage with minimal impact to daily operations.
- Construction may occur around an active building with personnel inside; therefore, adherence to pedestrian safety is required.
- Work with the CONTRACTOR to ensure any emergency routes into and from buildings are modified as necessary to ensure personnel can evacuate buildings as needed; those routes should remain clear at all times.

3.0.6 Work Control Package Support

- SUBCONTRACTOR shall provide the services of a technical expert knowledgeable on the SUBCONTRACTOR's work processes to assist the CONTRACTOR Work Planner in preparation of Work Control Packages – as per Exhibit E. No work may occur prior to final execution of the Work Control Package. Plan for additional Work Control Packages for each additional Task Order Release.

3.0.7 Site Specific Safety Plan Support

- SUBCONTRACTOR shall provide the services of a technical expert knowledgeable on the SUBCONTRACTOR's safety processes and submit to CONTRACTOR a Work Specific Safety Plan – as per Exhibit E. No work may occur prior to CONTRACTOR's final acceptance of the SUBCONTRACTOR's Site Specific Safety Plan.

3.1 Task(s)

3.1.1 Hot Mix Asphalts (HMA) Pavements:

- 3.1.1.1 Repair 3" HMA Pavement:** Work includes the demolition of the existing asphalt pavement (2"-3" thick, excluding saw cutting) and base, scarifying the top 6" of the subgrade, installing a 6" aggregate base course, installing a prime coat, installing 3" of asphalt course, and fog sealing.
- 3.1.1.2 Repair 4" HMA Pavement:** Work includes the demolition of the existing asphalt pavement (4"-5" thick, excluding saw cutting) and base, scarifying the top 6" of the subgrade, installing a 9" aggregate base course, installing a prime coat, installing 4" of asphalt course, and fog sealing.
- 3.1.1.3 Repair 6" HMA Pavement:** Work includes the demolition of the existing asphalt pavement 6" thick, excluding saw cutting) and base, scarifying the top 6" of the subgrade, installing a 12" aggregate base course, installing 6" of asphalt course in two lifts, and fog sealing.
- 3.1.1.4 Patch HMA Pavement:** Work includes cutting straight and vertical faces around the bad pavement area (extending cut at least 12" into good pavement areas), removing the bad asphalt and base as necessary to firm material, compacting the base, applying tack coat to the vertical faces, and placing 3/4" hot mix asphalt in layers not to exceed three inches. Thickness of the new asphalt pavement needs to match the existing pavement. Compact patch to same grade as surrounding pavement
- 3.1.1.5 Overlay 2" HMA Pavement:** Work includes cold milling asphalt pavement to a depth of two inches, cleaning loose debris from the existing pavement, tack coating, placing a two inch thick wearing course of 1/2" design mix, and fog sealing. Millings shall be disposed of off site.
- 3.1.1.6 Remove 2"-7" HMA Pavement:** Work includes demolishing 2" to 7" thick asphalt pavement. Existing base shall be graded and compacted. Spoils from the NNSS shall be disposed of at the on-site landfill while spoils from NLV and RSL-N shall be disposed of off-site.

- 3.1.1.7 Remove/Replace 3" HMA Pavement:** Work includes the demolition of the existing asphalt pavement (2"-3" thick), scarifying the top 6" of the aggregate base course, installing 3" of asphalt course, and fog sealing.
- 3.1.1.8 Remove/Replace 4" HMA Pavement:** Work includes the demolition of the existing asphalt pavement (4"-5" thick), scarifying the top 6" of the aggregate base course, installing 4" of asphalt course, and fog sealing.
- 3.1.1.9 Construct 3" HMA Pavement:** Work includes site clearing and grubbing, grading the subgrade to the elevations required, scarifying the top 6" of the subgrade, installing a 6" aggregate base course, installing 3" of asphalt course, and fog sealing.
- 3.1.1.10 Construct 4" HMA Pavement:** Work includes site clearing and grubbing, grading the subgrade to the elevations required, scarifying the top 8" of the subgrade, installing a 9" aggregate base course, installing 4" of asphalt, and fog sealing.
- 3.1.1.11 Construct 6" HMA Pavement:** Work includes site clearing and grubbing, grading the subgrade to the elevations required, scarifying the top 6" of the subgrade, installing a 12" aggregate base course, installing 6" of asphalt in two lifts, and fog sealing.
- 3.1.1.12 Place 3" HMA Pavement:** Work includes installing 3" of asphalt over a pre-constructed or existing base and fog sealing.
- 3.1.1.13 Placing 4" HMA Pavement:** Work includes installing 6" of asphalt over a pre-constructed or existing base and fog sealing.
- 3.1.1.14 Placing 6" HMA Pavement:** Work includes installing 6" of asphalt over a pre-constructed or existing base and fog sealing.
- 3.1.1.15 Install Fill Material:** Work includes installation of additional satisfactory subgrade materials as needed to achieve the desired grades. Fill material will be completed to meet proper drainage slopes and other elevations for the site. The grading plan shall reflect the quantities included in this line item.
- 3.1.1.16 Install Subbase:** Work includes the installation of 6" subbase material. The subbase shall be installed between the compacted subgrade (fill material) and the base course.
- 3.1.1.17 Excavate and Export Subgrade:** Work includes excavation and export of existing subgrade. The exported subgrade shall be hauled off site. This line item may be used in conjunction with pavement construction or independently. Note that some paving line items already include subgrade replacement with base course.
- 3.1.1.18 Saw Cut Asphalt Pavement:** Work includes saw cutting asphalt pavement to a 7" maximum depth.
- 3.1.1.19 Route and Seal Cracks:** Crack widths are up to 1/2". Work includes routing to a nominal width at least 1/8" greater than the existing nominal or average width, and to an approximate depth of 3/4"; backer rod shall be placed in cracks that have a depth greater than 3/4". After cleaning with compressed air, cracks shall be filled with the specified hot-applied sealant.
- 3.1.1.20 Seal Cracks:** Crack widths are 1/2" to 1". Work includes preparing by sandblasting and cleaning with compressed air. The cracks shall then be filled with the specified hot-applied sealant. If the depth of the crack is greater than 3/4", a backer rod material is to be inserted.
- 3.1.1.21 Repair Large Cracks:** Crack widths are >1". Work includes preparing by saw cutting the edges of the crack in order to provide vertical faces and cleaning with compressed air. Large cracks shall be filled with an asphalt sand or fine-graded asphalt mix.

- 3.1.1.22 Rout and Seal HMA/PCC Pavement Joint:** Work includes repairing the joint between HMA pavement and PCC pavement or gutter by saw cutting a joint reservoir 3/4" + 3/4" deep and 3/8" + 1/8" wide (as measured from the concrete edge), cleaning the reservoir with compressed air, and filling it with the specified hot applied sealant.
- 3.1.1.23 Place Polymer Asphalt Emulsion Sealant:** Work includes placing a rubberized asphalt emulsion sealant over existing asphalt pavements in accordance with the specifications and product manufacturer's instructions.
- 3.1.1.24 Place Asphalt Sealer/Rejuvenator:** Work includes placing a rejuvenating agent over an asphalt pavement surface in accordance with the specifications and product manufacturer's instructions. A spray wand shall be used at edges of pavement to prevent pooling and excess runoff. Suitable products include "Rejuvaseal" (Rejuvaseal), "Paverx" (Pavement Preservation Technologies, Ltd) and "Reclamite" (Pavement Technology Inc). Contractor may submit additional products for review and possible approval.
- 3.1.1.25 Apply Single Chip and Fog Seal:** Work includes placing bituminous material followed by a single layer of chip. The chip is followed by a fog seal. The paint stripping line item will be used in conjunction with this task.
- 3.1.1.26 Apply Double Chip and Fog Seal:** Work includes placing bituminous material followed by a single layer of chip. Then a second layer of bituminous material and a second layer of chip. The chip is followed by a fog seal. The paint stripping line item will be used in conjunction with this task. This task may also be used in conjunction with a pulverization line item.
- 3.1.1.27 Apply Slurry Seal:** Apply slurry seal protective coating to existing roadway or parking lot. This work shall consist of the application of a mixture of mineral aggregate, emulsified asphalt, water, and additives on a previously compacted and bonded bituminous surface.
- 3.1.1.28 Place Cold Tar Seal:** Work includes placing a rubberized asphalt emulsion sealant over existing asphalt pavements. Work shall be done in accordance with FAA Specification P 629 Thermoplastic Coal Tar Emulsion Surface Treatments. Work includes preparing the pavement surface, removing any existing striping by grinding or other methods that do not damage the pavement surface, and applying the thermoplastic coal tar emulsion in accordance with the specifications and product manufacturer's instructions. The removal of the striping is necessary to allow the mechanical binding of the sealer to the pavement. Suitable products include "Sealmaster Coal Tar Pavement Sealer" (SealMaster), "Star Seal Supreme" (Pavement Maintenance Supply) and "Grip-Flex P-629 Microsurfacing" (Grip-Flex). Contractor may submit additional products for review and possible approval.
- 3.1.1.29 Place Dust Palliative:** Work includes applying a dust palliative to unpaved areas. Dust palliative product shall meet Nye County dust control standards and NNSS Air Quality requirements.

3.1.2 Concrete Pavements

- 3.1.2.1 Demolish Curbs and Gutters:** Work includes the demolition and removal (including saw cutting as necessary) of existing concrete curbs and gutters, asphalt curbs, and concrete valley gutters. Spoils from the NNSS shall be disposed of at the on-site landfill while spoils from NLV and RSL-N shall be disposed of off-site.
- 3.1.2.2 Demolish Sidewalks:** Work includes the demolition and removal (including saw cutting as necessary) of existing concrete sidewalks or similar concrete pavements. Assume 4" thickness. Spoils from the NNSS shall be disposed of at the on-site landfill while spoils from NLV and RSL-N shall be disposed of off-site.

- 3.1.2.3 Construct PCC Curbs and Gutters:** Work includes scarifying the top 6" of, installing a 6" aggregate base course, installing L- type concrete curb and gutter, A-type concrete curb, surmountable concrete curb and gutter.
- 3.1.2.4 Construct Cross/Valley Gutters:** Work includes scarifying the top 6" of subgrade, installing a 10" aggregate base course, installing 9" thick concrete valley gutter (up to 8' wide
- 3.1.2.5 Construct Sidewalks:** Work includes scarifying the top 6" of, installing a 5" aggregate base course, installing 4" thick concrete sidewalk,.
- 3.1.2.6 Construct 6" or 8" Thick PCC Pavement:** Work includes scarifying the top 6" of subgrade installing a 4" aggregate base course, 6" or 8" thick PCC pavement.

3.1.3 Construct drainage Structures:

Steel plates are to be used to cover open trenches across pavements at the end of each workday as required to allow for traffic during non-work hours. SUBCONTRACTOR shall excavate by means of hydro-excavation or other non-mechanical means for the line items below.

- 3.1.3.1 Construct Drop Inlet:** Work includes necessary site excavation and installation of a new cast-in-place or precast concrete drop inlet (minimum 2' x 2' inside dimension) with a traffic bearing metal grate.
- 3.1.3.2 Connect Drop Inlet:** Work includes saw cutting and removal of 2-4" asphalt pavement, excavation, installation of a 6" schedule 40 PVC pipe between the new catch basin and an existing drainage ditch or existing drainage pipe (top of pipe is approximately three feet below the surface), backfilling, and the placement of new 2-4" asphalt. Compact asphalt to achieve at least 97% density and conform to the elevation of the surrounding pavement.
- 3.1.3.3 Install Concrete Culvert:** This line item would be used in conjunction with paving line items. Work includes excavation to achieve a flatbed for the pipe, placement of a 24" or 36" equivalent diameter elliptical reinforced concrete pipe, and backfilling. The first six inches of fill over the pipe is to be included as part of this line item.
- 3.1.3.4 Construct Headwall with Wings:** Work includes necessary excavation, formwork, and installation of a reinforced concrete headwall and wing walls.
- 3.1.3.5 Install Corrugated Metal Pipe (CMP):** Work includes excavation by hydro-excavation to achieve a flatbed for the pipe, placement of a 24" diameter 16 gauge corrugated metal drainage pipe, and backfilling. The first six inches of fill over the pipe is to be included as part of this line item.
- 3.1.3.6 Install Riprap:** Work includes placing geotextile fabric and a combination of 4"-8" granite rock to a minimum of 6" depth. Rock granite shall be spread to a continuous uniform depth sufficient to ensure no weed block is visible from above (minimum 6 inches deep). Line item to be used in conjunction with drainage structures line items (i.e. culverts, headwalls, inlets and piping).

3.1.4 Install Utility Ducts:

These line items shall be used in conjunction with paving line items. Assume additional excavation of 18" by means of hydro-excavation. SUBCONTRACTOR shall include the cost for steel plates to cover open trenches across pavements at the end of each workday as required to allow for traffic during non-work hours.

- 3.1.4.1 Install Sleeve Under New Pavement:** Work includes any additional required excavation, installation of one 10" Schedule 40 PVC pipe, and backfilling. Final backfill above initial sand backfill shall be CLSM up to the bottom of the new pavement.

- 3.1.4.2 Install 2-Way Power/Comm Duct:** Work includes any additional required excavation, installation of two 6" Schedule 40 PVC pipes (one duct with innerducts) encased in red dye slurry and backfilling.
- 3.1.4.3 Install 4-Way Power/Comm Duct:** Work includes any additional required excavation, installation of four 6" Schedule 40 PVC pipes (one duct with inner ducts) encased in red dye slurry, and backfilling.
- 3.1.4.4 Install 2" Direct Buried Duct:** Work includes any additional required excavation, installation of one 2" Schedule 40 PVC pipe, and backfilling with appropriate material.
- 3.1.4.5 Install 6" Direct Buried Duct:** Work includes any additional required excavation, installation of one 6" Schedule 40 PVC pipe, and backfilling with appropriate material.
- 3.1.4.6 Install Duct Bank Location Markers:** Work includes installation of duct bank location markers at each end of the buried duct.

3.1.5 Adjust Utility Items:

- 3.1.5.1 Adjust Water Valve Cover or PIV to Grade:** Work includes adjusting the elevation of an existing valve assembly, so the cover is flush with the surface of the new pavement and constructing a new concrete collar.
- 3.1.5.2 Adjust Manhole Cover to Grade:** Work includes adjusting the elevation of an existing manhole, so the cover is flush with the surface of the new pavement and constructing a new concrete slab around the manhole.

3.1.6 Place Pavement Markings:

- 3.1.6.1 Place Traffic Striping:** Work includes laying out and placing yellow, white, or blue striping (dashed and/or solid) on new or existing roads or parking lots. When Striping, SUBCONTRACTOR will make note of, record, and mark the sides of the roadways to delineate the existing striping patterns so they can be repainted after fog sealing. If applicable, Striping pattern signage should be placed at least 30 feet from the edge of the pavement with the pattern visible to the operator of the striping equipment.
- 3.1.6.2 Remove Paint:** Work includes removing paint from concrete pavement without adversely affecting the pavement surface. Spoils from the NNSS shall be disposed of at the on-site landfill while spoils from NLV and RSL-N shale be disposed of off-site.
- 3.1.6.3 Install Traffic Tape:** Work includes layout, necessary preparation of the new or existing pavement surface, and installation of traffic tape.
- 3.1.6.4 Install Ceramic Traffic Buttons:** Work includes laying out and placing the yellow or white buttons on new or existing roads.
- 3.1.6.5 Install Reflective Traffic Markers:** Work includes laying out and placing the white, yellow, or blue reflective markers on new or existing roads.
- 3.1.6.6 Remove Traffic Buttons/Markers:** Work includes removing existing traffic buttons or markers and patching the resulting depression. The patch material shall be level with the surrounding pavement.
- 3.1.6.7 Install Large Reflective Traffic Markers:** Work includes laying out and placing the white or yellow reflective markers on new or existing roads. Ceramic marker has a 6" diameter and 2" height with two reflectors facing opposite directions.

3.1.6.8 Install Reflective Roadway Delineators: Work includes laying out and placing the white or yellow reflective roadway delineators.

3.1.6.9 Place Black Paint: Work includes placing black paint over existing markings on pavements to hide those marks.

3.1.6.10 Hand Stencil: Work includes procuring hand stencils up to and including stencils with the width of 4' and length of 4'.

3.1.6.11 Survey Team: Work includes a general survey and survey of subsurface soil conditions at the site. This includes marking layout and chalk lines. Topographic and construction survey data shall also be delivered on two files (.CSV and .DWG). Accuracy level of data provided shall be +/- 0.02 foot.

3.1.7 Pulverizations

3.1.7.1 Pulverize/Replace 3" HMA Pavement: Work includes pulverizing existing 2"-3" asphalt pavement and 6" of base, using the pulverized asphalt and base as base material installing 3" of HMA wearing course and fog seal.

3.1.7.2 Pulverize/Replace 4" HMA Pavement: Work includes pulverizing existing 4"-5" asphalt pavement and 9" of base, using the pulverized asphalt and base as base material, installing 4" of HMA wearing course, and fog seal.

3.1.7.3 Pulverize/Replace 6" HMA Pavement: Work includes pulverizing existing 6" asphalt pavement and 12" of base, using the pulverized asphalt and base as base material installing 6" of HMA wearing course in two lifts, and fog seal.

3.1.7.4 Pulverize 3" HMA Pavement: Work includes pulverizing existing 2"-3" asphalt pavement and 6" of base, using the pulverized asphalt and base as base material.

3.1.7.5 Pulverize 4" HMA Pavement: Work includes pulverizing existing 4"-5" asphalt pavement and 9" of base, using the pulverized asphalt and base as base material

3.1.7.6 Pulverize 6" HMA Pavement: Work includes pulverizing existing 6" asphalt pavement and 12" of base, using the pulverized asphalt and base as base material

3.1.8 Miscellaneous:

3.1.8.1 Install Traffic Control Sign: Work includes installation of a traffic control sign (including pole and concrete base). Signs shall be retroreflective and made of prismatic sheeting with a minimum warranty of 10 years

3.1.8.2 Demolish Traffic Control Sign: Work includes demolition of a traffic control sign (including pole and concrete base).

3.1.8.3 Remove/Replace Traffic Control Sign: Work includes removal and replacement of a traffic control sign using a new pole and new concrete base. Signs shall be retroreflective and made of prismatic sheeting with a minimum warranty of 10 years.

3.1.8.4 Replace Traffic Control Sign: Work includes replacement of a traffic control sign using the existing pole and concrete base. Work is limited to changing the sign, which shall be retroreflective and made of prismatic sheeting with a minimum warranty of 10 years.

3.1.8.5 Provide Traffic Control (No Pilot Car): Provide traffic control per the approved traffic control plan. This line DOES NOT include the use of a pilot car.

- 3.1.8.6 Provide Traffic Control (With Pilot Car):** Provide traffic control per the approved traffic control plan. This line is for all necessary traffic control INCLUDING a pilot car.
- 3.1.8.7 Install Asphalt Speed Table:** Work includes installation of a speed table on top of existing pavement. The dimensions are a 12' long flat section that is 8" high, and 4' tapered end sections (slope of 3/16), and the length of the table will be the width of the lanes.
- 3.1.8.8 Install Precast Bumper Block:** Work includes installation of precast concrete bumper blocks.
- 3.1.8.9 Install Detectable Warning Panel:** Work includes placement and custom cutting of new yellow, red, black, brown or white detectable warning panels. Minimum size required is 24"x 60".
- 3.1.8.10 Install Urethane Rubber System:** Work includes placing a urethane rubber system on top of existing pavement. Line item may be used in conjunction with any paving line item or on existing pavement.
- 3.1.8.11 Maintain Urethane Rubber System:** Work includes high pressure power wash cleaning of surface, repair all cracks and voids in the surface, provide necessary protection of surrounding area from over spray, apply system primer, apply 2 coats of red urethane binder, remove protection and return the surrounding area to its natural state.
- 3.1.8.12 Construct and Install Fixed Road Bollards:** Work includes surveying, trenching, placing, constructing, and compacting 6" minimum aggregate base course (Type II), placing a concrete footing. This line item includes at maximum 1'-2 1/2" diameter of foundation in-line with the bollards' axis. All damaged pavements shall be restored to its previous state. Work also includes manufacture, fabrication, painting to include reflective striping, placing and installation of 10" diameter steel bollards that are 30" high.
- 3.1.8.13 Install Landscape Rock:** Work includes providing and installing new crushed 3/4" "Native Red" granite (3" deep, includes weed block fabric/visqueen and herbicide). Area shall be sprayed with herbicide prior to weed block fabric/visqueen being placed. Afterwards rock granite shall be spread to a continuous uniform depth sufficient to ensure no weed block is visible from above (minimum 3 inches deep).
- 3.1.8.14 Install W-Beam Guardrail:** Work includes the installation of Class A finished steel beam guard rail.
- 3.1.8.15 Demolish Fence:** Work includes the demolition and removal of existing fence line (chain link or aluminum). Spoils from the NNSS shall be disposed of at the on-site landfill while spoils from NLV and RSL-N shall be disposed of off-site.

3.2 Sequencing

The sequencing of work to be completed will be determined at the time that each task order release is issued.

3.3 Acceptance Criteria

- 3.3.1** The STR and Design Engineer will review all deliverables to ensure materials meet designated specifications. STR and Engineer will inspect each project to ensure all standards and codes are complied with.
- 3.3.2 Pre-Final Inspection Notification:** The CONTRACTOR shall notify the STR at least seven (7) working days in advance of the desired pre-final inspection date so that there would be sufficient time to coordinate attendance of necessary personnel. Based on the inspection, the STR shall generate a punch list of contract items needing to be corrected or completed by the SUBCONTRACTOR. This punch list

may not necessarily be the final punch list. Additional items may be identified during the Final Inspection.

- 3.3.3 Final Inspection Notification:** After all punch list items identified during the pre-final inspection shall have been completed, the SUBCONTRACTOR shall notify the STR in writing at least seven (7) business days in advance of the desired final inspection date. Final clean-up shall be made prior to a final inspection and consist of cleaning the site and adjacent areas in the immediate vicinity as required by the STR. SUBCONTRACTOR does not have seven additional business days for the period of performance. Soil disturbed by construction activity shall be left in a uniform, smooth, and compacted condition.
- 3.3.4 Declination to Inspect:** The STR reserves the right to both decline the SUBCONTRACTORS request of a pre-final and/or a final inspection when it is evident that the project is not ready for inspection.
- 3.3.5 Acceptance:** Final acceptance will not occur until all work, including clean-up, has been accomplished and no discrepancies remain. Final inspection and acceptance should be scheduled prior to or not later than the contract completion date.

3.4 SUBCONTRACTOR Deliverables

- 3.4.1** Submit Bill of Lading and Certificate of Compliance for all material used, i.e., tack seal, bituminous material for chip and seal surface treatment, NDOT 2C Hot Mix and asphalt binder, prime coat, type II, and fog seal. These certificates shall state that all materials meet the requirements of the NDOT Standard Specifications for Road and Bridge Construction, this SOW and its referenced specifications.
- 3.4.2** Submit a Traffic Control Plan for CONTRACTOR approval. SUBCONTRACTOR shall be responsible for traffic control and traffic control barriers in accordance with the SUBCONTRACTOR's approved Traffic Control Plan. SUBCONTRACTOR shall replace or re-install all removed and/or damaged signage. Traffic Control Plan will be required for each TOR.
- 3.4.3** Submit Technical Data Sheets and Safety Data Sheets (SDS) for all materials to be used on each TO with their proposal to the STR for review and approval by CONTRACTOR Industrial Hygiene.

3.5 Site Conditions and Known Hazards (Facility Specific)

Site facility specific conditions/requirements and known hazards are incorporated in this SOW.

3.5.1 Asbestos	
☒	It is NOT expected.
☐	It IS expected that asbestos-bearing materials will be encountered during the performance of this work. 3.6 The SUBCONTRACTOR shall submit an Asbestos Abatement Plan for STR approval prior to start of work, which meets all the criteria of OSHA 29 CFR 1926.1101, "Asbestos." The Asbestos Abatement Plan shall identify the procedures that will be used to remove and dispose of all asbestos-containing materials that may be encountered during work performed under this Subcontract. These items include, but are not limited to, piping insulation, floor tiles, ceiling tiles, and boilers. 3.7 Supervision of the asbestos abatement work shall be performed by a federal, state, or local accredited/licensed competent person (as defined by OSHA 29 CFR 1926.1101) employed by the SUBCONTRACTOR and who will be at the worksite(s) at all times. 3.8 Installation of asbestos containing material (ACM) in newly constructed facilities is prohibited. For all new facilities, certify that no ACM was used for building construction.

3.5.2 Silica	
☒	It is NOT expected.
☒	It IS expected that silica-bearing materials will be encountered during the performance of this work and all activities that may potentially generate respirable silica. a. A SUBCONTRACTOR with employees potentially exposed to respirable crystalline silica (RCS) above 25 micrograms per cubic meter of air (25 ug/m³) as an 8-hour time-weighted average under any foreseeable conditions shall comply with the 29 CF 1910.1053, "Respirable Crystalline Silica," and/or 29 CFR 1926.1153, "Respirable Crystalline Silica." b. The SUBCONTRACTOR shall submit a Written Silica Exposure Control Plan (if applicable) to the CONTRACTOR for review and approval as part of the SSSP. <i>NOTE: The CONTRACTOR's RCS Occupational Exposure Limit is 25 ug/m³ as opposed to OSHA PEL of 50 ug/m³.</i>

3.5.3 Toxic Metals (Lead, Cadmium, Mercury)	
☒	It is NOT expected. However, since painted surfaces typically contain lead chromates, and many metals contain hexavalent chromium, the SUBCONTRACTOR is required to notify the STR prior to cutting, burning, welding or polishing of metal or painted surfaces.
☐	It IS expected. a. A SUBCONTRACTOR with employees working in toxic metals contaminated areas shall submit a Written Toxic Metals Exposure Control Plan in accordance to the appropriate section of 29 CFR 1910 to the STR for review and approval as part of the SSSP. b. All SUBCONTRACTOR employees working under the accepted Written Toxic Metals Exposure Control Plan shall have been trained in accordance with the plan. Training records shall be submitted to the STR prior to the start of work.

3.5.4 Hoisting and Rigging	
☒	It is NOT anticipated that Hoisting and Rigging will occur during performance of the work. However, if the SUBCONTRACTOR's chosen means and methods include hoisting and rigging activities then all applicable requirements shall apply.
☐	It IS anticipated that Hoisting and Rigging will occur during performance of this work. a. The SUBCONTRACTOR shall provide the resources necessary for inspection, certification, and maintenance of rigging and lifting equipment as well as monitor all lifts to ensure that regulatory lifting practices are followed by the MSTs Lifting SME. b. The SUBCONTRACTOR shall submit its 29 CFR 1926.1400, Subpart CC, "Cranes and Derricks in Construction" compliant program as part of the Environmental, Safety & Health (ES&H) program. c. The SUBCONTRACTOR shall designate a qualified supervisor to determine the methods and develop plans for rigging operations to ensure safe lifts. d. The SUBCONTRACTOR shall ensure all crane operations maintain minimum safe distances from all high voltage lines, as determined by the CONTRACTOR. Twenty feet is required for voltages up to 350 kV. At voltages greater than 350 kV, the distance shall increase as required. e. Cranes (Mobile) - The SUBCONTRACTOR shall provide the resources necessary for

	inspection, certification, and maintenance of rigging and lifting equipment and shall monitor all lifts to ensure that acceptable lifting practices are followed. f. Lift Plan requirements i. Lift plans are required to be submitted to the CONTRACTOR for concurrence. The SUBCONTRACTOR shall submit a detailed rigging plan with all applicable supporting calculations to the CONTRACTOR for review and acceptance prior to the lift. A Formal Lift Plan will be required for the following activities: • Excess of 5 tons • Lift classified as critical (exceeding 75% of crane capacity chart) • Any two-crane lift or any lift over operating or occupied facilities, process pipe racks or near power lines) • High value or long lead time item ii. The SUBCONTRACTOR shall designate a qualified supervisor to determine the methods and develop plans for rigging operations to ensure safe lifts. iii. The SUBCONTRACTOR is required to meet DOE Standard DOE-STD-1090-2020, "Hoisting and Rigging" for lift classification and lift plan requirements.
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3.5.5 Radiological Contamination	
☒	It is NOT expected.
☐	It IS anticipated that work may be performed in radiological areas. a. The SUBCONTRACTOR shall abide by the requirements of the current version of the NNS Radiation Protection Program (NNS RPP) as implemented with the NNS Radiological Control Manual (NNS RCM). • The NNS RPP can be downloaded from the following web address: https://www.osti.gov/servlets/purl/1435448 • The NNS RCM can be downloaded from the following: https://www.osti.gov/servlets/purl/1895616 b. The SUBCONTRACTOR shall abide by the CONTRACTOR'S radiological postings. c. The SUBCONTRACTOR shall make arrangements with the CONTRACTOR'S Radiological Control Division to develop adequate controls, prescribe protective measures, and generate required Radiological Work Permit (RWP) necessary to demonstrate compliance with the NNS RPP. d. The SUBCONTRACTOR shall comply with all RWPs approved by the CONTRACTOR controlling the work performed by the SUBCONTRACTOR. e. The SUBCONTRACTOR shall provide a list of all equipment and materials expected to be utilized in areas controlled for radiological purposes and shall additionally disclose all heavy equipment to be brought on NNSA/NFO-managed property to the CONTRACTOR'S STR (to be provided to the Radiological Control Division), prior to arrival on NNSA/NFO property. f. All SUBCONTRACTOR-owned/rented/leased equipment and vehicles brought onto NNSA/NFO property are subject to radiological survey at any time during the contract period. • All SUBCONTRACTOR-owned/rented/leased heavy equipment utilized for soil disturbing or building demolition activities are required to undergo baseline and re-entry radiological surveys upon arrival at NNSA/NFO property or prior to use at the

	work site, as directed by the CONTRACTOR'S Radiological Control Division. • All SUBCONTRACTOR-owned/rented/leased equipment and vehicles are required to undergo radiological evaluation prior to removal from the work site and/or NNSA/NFO property. • All SUBCONTRACTOR-owned/rented/leased equipment and vehicles brought onto NNSA/NFO property that cannot meet established radiological release requirements shall not be removed from NNSA/NFO property. g. SUBCONTRACTOR shall require dosimeters, if used at the worksite, are exchanged by CONTRACTOR, as required, by the CONTRACTOR's Radiological Control Division. h. Upon completion of work, the SUBCONTRACTOR shall return the dosimeters to the CONTRACTOR. i. When required, the SUBCONTRACTOR shall ensure radiobioassay samples from their employees are submitted to the CONTRACTOR'S Radiological Control Division and/or RWP. j. If the SUBCONTRACTOR is expecting to bring radioactive material/radioactive sources (including those contained within equipment) or radiation-generating devices (RGDs) onto NNSA/NFO property: i. The SUBCONTRACTOR shall maintain radioactive material/radioactive sources per the CONTRACTOR'S direction. ii. The SUBCONTRACTOR shall provide a planned schedule of moves or advise the CONTRACTOR'S STR (to be provided to the Radiological Control Division), in writing, prior to moving any radioactive source to, around, or away from CONTRACTOR-managed property. Prior approval to move such radioactive sources onto or from CONTRACTOR-managed property must be received from the CONTRACTOR'S Radiological Control Division. (1) The SUBCONTRACTOR shall notify the CONTRACTOR'S Radiological Control Division immediately after they bring radioactive material/radioactive sources onto CONTRACTOR-managed property so a pre-use radiological survey can be performed by the CONTRACTOR. (2) The SUBCONTRACTOR shall notify the CONTRACTOR'S STR prior to removing radioactive material/radioactive sources from CONTRACTOR-managed property so a post-use radiological survey can be performed by the CONTRACTOR. iii. The SUBCONTRACTOR shall provide to the CONTRACTOR'S STR (to be provided to the Radiological Control Division) prior to arriving onsite, a copy of the current applicable radioactive material license (Nuclear Regulatory Commission or applicable state reciprocity) or other approval to the CONTRACTOR'S STR (to be provided to the Radiological Control Division) that gives the SUBCONTRACTOR authority to possess and operate the radioactive source/radioactive material or RGD (copy of current License for Industrial Radiography per 10 CFR 34, "Licenses for Industrial Radiography and Radiation Safety Requirements for Industrial Radiographic Operations,") along with procedures for operating the device. (1) The SUBCONTRACTOR shall have adequate controls, protective measures, and work control documents/procedures/permits as required under their approved radioactive material license (Nuclear Regulatory Commission or applicable state reciprocity) or other approval for all operations associated with SUBCONTRACTOR-owned radioactive material/radioactive sources or RGDs. (2) The SUBCONTRACTOR shall provide current leak test results, training records for RGD Operations, and source certificate/nominal activity sheets to the CONTRACTOR'S STR (to be provided to the Radiological Control Division) prior to the radioactive source arriving on NNSA/NFO-managed property.
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	(3) The SUBCONTRACTOR shall provide special form certificates, Department of Transportation shipping papers, and radioactive source container certifications, to the CONTRACTOR'S STR (to be provided to the Radiological Control Division) upon entry to NNSA/NFO-managed property. (4) The SUBCONTRACTOR shall provide or make arrangements for transportation of radioactive source/radioactive materials in compliance with Department of Transportation regulations. (5) The SUBCONTRACTOR shall have a worker radiation safety plan as specified in 10 CFR 39, "Licenses and Radiation Safety Requirements for Well Logging," including Operating and Emergency procedures and Incident Reporting procedures.
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3.6 Delivery, Storage and Handling

The SUBCONTRACTOR shall:

- Provide appropriate and necessary equipment and labor required for unloading, transporting, and handling delivered products/materials.
- Ensure that loads entering/exiting the NNSS are properly secured.
- Follow manufacturer's recommendations/instructions regarding the handling and storage of all materials.
- Store packaged products in original unbroken packages and containers.
- Leave manufacturer's seals and labels intact during storage.
- Arrange for immediate disposal and replacement of products found to be defective, damaged beyond repair, or in otherwise unacceptable condition.

3.6.1. Construction Facilities

- Facilities available for Subcontractor use, lay down areas, and allocated parking spaces will be determined at the issuance of each task order.

3.6.2. SUBCONTRACTOR Requirements

The SUBCONTRACTOR shall provide the following:

- Temporary Construction facilities (e.g., Job trailer, pre-job location, lunchroom).
- When a SUBCONTRACTOR performs physical work which has risk potential (employees, equipment, environment, or plant) outside of daylight hours, they are responsible for providing adequate lighting to perform the project work scope.
- Generators for construction power. The SUBCONTRACTOR is required to ground generators in accordance with National Electrical Safety Code (NESC) requirements and notify the CONTRACTORS STR and Construction Manager (CM) for compliance inspection prior to use. No modifications shall be made to portable generators on MSTs managed property without written permission from STR/CM.
- Cell phones for supervisory personnel.
- Portable restrooms.
- Ice and drinking water.
- All materials required to complete the work shall be furnished by the SUBCONTRACTOR with the exception of the aggregates listed in section 3.0.4. Materials incorporated will conform to the requirements of the specifications for the work. All materials will be manufactured, handled, and used in a workmanlike manner to ensure the completed work is according to the plan and specifications. Notifications will be provided to the CONTRACTOR as to the proposed source(s) of material with all required mix designs and test reports at least 7 days in advance of their use to enable the CONTRACTOR time to properly review and approve. All approvals will be good for a maximum of

one year from submission date. Test reports required may include but are not limited to sieve analysis, material classification, plasticity limit, specific gravity, angularity, penetration, ductility, viscosity, dynamic shear, asphalt content and gradation, flash point, tensile strength, flexural strength, compressive strength as required in the specifications.

Any item in this SOW required to be furnished is intended to establish a standard of quality or type of material desired and not to restrict the use of other materials, which are of equal quality or type. When proposing items or materials equal to the items or materials called for in this SOW, SUBCONTRACTOR must state the manufacturer of each item/material proposed as an equal.

SUBCONTRACTOR may be required to furnish sample(s) or product(s) proposed as an equal. If the SUBCONTRACTOR does not propose a different manufacturer to CONTRACTOR for approval in advance, the SUBCONTRACTOR will be required to furnish items/materials exactly as specified.

NOTE: The SUBCONTRACTOR shall restore areas disturbed during construction, (including laydown areas) to pre-existing conditions.

3.6.3. Outage Requests

The SUBCONTRACTOR shall coordinate by providing traffic control plans to MSTs which will be utilized for road closures via NVE alerts. CONTRACTOR will fulfill the role of Controlling Organization for SUBCONTRACTOR lockout/tagout operations.

3.6.4. Building Occupancy Inspection Requirements

Construction trailers are required to meet the relocatable structure requirements of International Building Code (IBC-2024) and will need to have a Beneficial Occupancy Inspection (BOI) performed in order to receive a Certificate of Occupancy per CD-5400.003. The BOI will use a graded approach for the inspection itself but documentation for the structures themselves, a full site plan, and structural anchorage/support will be required. The plan shall be reviewed by the Building Authority (BA) and other appropriate SMEs before a BOI can be requested.

Facilities including manufactured structures, mobile homes, trailers, semi-trailers, modular-type structures, factory-assembled structures, cargo containers, hazardous materials or flammable liquid storage containers, air supported/inflated structures, tent/membrane, and cloth/rib structures. This term does not apply to trailers and cargo containers that are being used in the transportation mode for conveying materials while on site, or to prefabricated buildings that are permanently located, such as "Butler" or "Strand Steel" buildings.

Engineering Programs - BA-Relocatable Structures provides a breakout of what is required for relocatable structures at the site. Note that since these meet the International Building Code (IBC) and Architectural Barriers Act (ABA) definition of construction trailers, they are accepted from meeting the accessibility requirements therein, but not other requirements. Most municipalities have some kind of permitting requirement for construction trailers therefore SUBCONTRACTOR shall be familiar with these and shall have the required manufacturer and tie down information readily available. SUBCONTRACTOR shall contact Fire & Rescue for their specific requirements for these structures since they may need the building numbers (provided by Facilities Information Management System (FIMS)) installed on the exterior of the trailers based on a previous walkdown.

Note that all applicable Environmental, Emergency Planning, and ES&H requirements for construction trailers will need to be met and these departments shall be contacted for those if they have not already. An NNSS Construction Office and Equipment Trailer Permit Application must be submitted for each trailer over 120sf at least 28 days before the trailer is planned to be on site (see Appendix A).

B-4 PERSONNEL REQUIREMENTS

4.1. Training and Qualification

The SUBCONTRACTOR and its personnel shall attend the following site-specific training in the course of this work scope. NOTE site access may be delayed until training is completed or renewed. The SUBCONTRACTOR shall contact the STR to coordinate scheduling of training. See Section B-6, 6.4 *Badging*.

DESCRIPTION	DURATION	FREQUENCY
General Employee Radiological Training (GERT) (WBT 1E00W585)	0.5 Hour	730 days
MSTS Export Control Awareness (1H00W310)	0.5 Hours	730 days
CONTRACTOR's Lockout/Tagout/Tagging Authority Process (1E00W448)	1.0 Hour	730 days
CONTRACTORS Excavation Penetration Process (Briefing 1E00W752)	0.5 Hour	One time only
Controlled Unclassified Information (CUI) Training Program (CUI0001)	1.5 Hour	730 days
NNSS Site Access Safety Orientation (1E00W102)	0.5 Hour	One time only
RSL Facility Safety Briefing	0.5 Hour	One time only
JASPER General Employee Training (1JASW001)	1.0 Hour	One time only
Protective actions (WBT 1REMPAW1)	0.5 Hour	365 days
Work Location Emergency Response Plan, Including Evacuation Alarms and Accountability (1REM050000)	3.0 Hours	One time only
Initial Security Briefing. DOE O 470.4B, "Safeguards and Security Program" (1S000110) as well as DOE O 470.4B Chg. 3 (Ltd.Chg.)	1 Hour	One time only
Integrated Work Control Process (IWCP) (WBT 1G00W552)	1 Hour	730 days

The SUBCONTRACTOR shall maintain training records for their personnel and ensure all required training is completed prior to work. Additionally, as soon as practical after award, the SUBCONTRACTOR shall submit a badge request for personnel required under the various releases for scheduling training and medical evaluation prior to crews being eligible for work on site.

4.2. Key Personnel Qualifications

The SUBCONTRACTOR shall submit a resume along with any documented applicable qualifications/certifications for approval prior to the SUBCONTRACTOR being authorized to proceed with work. The SUBCONTRACTOR shall submit for approval any changes in the Key Personnel representative assignments for approval.

4.2.1. Site Superintendent

Oversees 100% on-site service and construction operations, ensuring projects are completed on time, within budget, and adhering to safety regulations. Manages lower-tier SUBCONTRACTORS, coordinate schedules, and enforce quality and safety standards.

Responsibilities

- Leading crews
- Ensuring compliance with codes
- Communicating project progress

Qualifications

- Specialized certifications like Occupational Safety and Health Administration (OSHA) or Project Management Professional (PMP) can significantly enhance qualifications.
- Experience in a supervisory role on construction sites is also crucial.
- Minimum of five (5) years' experience.

4.2.2. Quality Assurance/Quality Control Professional

Ensures that products or services meet established quality standards. Quality Assurance (QA) professionals play a crucial role in preventing errors and ensuring a smooth user experience. Inspects, tests, and ensures that products or services meet established quality standards and specifications. Quality Control (QC) professionals

work to identify defects, deviations from specifications, and other quality issues throughout the production process, aiming to maintain consistency and adherence to quality assurance protocols.

Responsibilities

- Act as Point of Contact (POC) and represents the SUBCONTRACTOR in quality related matters.
- Ensures SUBCONTRACTOR's Quality Assurance Plan (QAP) implementation.
- Develops and maintains quality documents that are generated by the SUBCONTRACTOR and their lower-tier SUBCONTRACTOR (s) (e.g., Inspection Reports, Test Plans, Test Procedures, Test Data Sheets, Measuring & Test Equipment (M&TE) Records, etc.).
- Perform regular independent oversight and ensures required testing and inspections are completed. The SUBCONTRACTOR's QA/QC representative and MSTs STR shall be present to verify that ALL required testing and inspection activities are performed in accordance with subcontract requirements (e.g., applicable codes and standard, etc.).
- Ensure that deficiencies are documented in accordance with SUBCONTRACTOR's corrective action and nonconformance program.
- Attend kick-off meetings, and as necessary attend job walk-downs, progress meetings and safety meetings.
- Work alongside the Field Work Supervisor (FWS) to ensure that the work is being accomplished in accordance with the subcontract requirements.
- Creating and running tests,
- identifying and reporting errors, and
- providing feedback to improve the final product or service.

Qualifications

- High school diploma is the minimum requirement for entry-level positions, prefer a post-secondary certificate or associate degree in quality control or a related field. Further education and specialized training, including certifications like American Society for Quality (ASQ) Certified Quality Inspector (CQI).
- Minimum of five (5) years of construction experience with roles that involve quality, testing and inspections.
- Combination of education, experience, and skills is typically required. While a specific degree in a related field like engineering, computer science, or a related science is often preferred, many paths can lead to a QA career, including certifications, practical experience, and even apprenticeship programs.

4.2.3. Safety Representative

Ensure a safe and healthy work environment by representing employee concerns, identifying hazards, and promoting safety protocols. They work with management to address workplace safety issues, conduct inspections, and educate employees on safety practices. Review and ensure that all site and regulatory requirements are met.

Responsibilities

- Develop and maintain the Job Hazard Analysis (JHA) throughout the project with planner assistance.
- NOTE: For construction that is phased, or has dissimilar hazards, separate JHA's shall be developed.
- Develop and maintain permits/plans that are generated by the SUBCONTRACTOR and their lower-tier SUBCONTRACTOR (s)
- Perform daily inspections with the FWS (it is expected that the Safety Professional will perform this at the job site)
- Ensure that the FWS is documenting the daily inspections, including both positive observations and deficiencies along with corrective action(s)
- Attend pre-job meeting at least once/week.
- Work alongside FWS to ensure that equipment used onsite is properly maintained.
- Work alongside FWS to ensure that each employee's (and lower-tier employee's) training records and Electronic Job Task Analysis (EJTA) are approved prior to performing work and maintained current

throughout the project.

- Work alongside FWS to ensure that products/chemicals (provided by the SUBCONTRACTOR and lower-tier SUBCONTRACTORS) are submitted and approved prior to use.
- Attend kick-off meetings and progress meetings.
- Attend job walk-down after award of subcontract with FWS, CM and MSTs Safety Professional
- Participate in inspections with FWS, CM, and MSTs Safety Professional
- Required to be onsite during high risk or critical activities.
- Available in case of an event and perform event investigations.
- Participate in MSTs investigations and fact-finding meetings.
- Work alongside FWS to ensure that the work is being accomplished following MSTs Safety and Health procedures.
- Work alongside FWS to help resolve employee concerns.

NOTE: The safety professional's oversight frequency shall increase if the SUBCONTRACTOR or MSTs determines that more rigorous oversight is required.

Qualifications

Degree in Occupational Safety, or Hold the designation of a Certified Safety Professional, or Hold the designation of an Associate Safety Professional with a minimum of 1-year documented safety experience, or Occupational Health and Safety Technician or Construction Safety and Health Technician certification in addition to 3 years of experience in the field providing safety duties or Documented 5 years full time safety experience (100% safety work). List of projects and description of duties where person was a full-time safety professional.

Prefer specialized training for specialized activities (i.e., High risk, diving, high voltage).

4.2.4. Safety Manager

Responsible for developing, implementing, and maintaining safety programs to ensure a safe, healthy, and compliant work environment for all employees. This includes identifying hazards, conducting safety audits, investigating incidents, and providing recommendations for improvement. The goal is to create a workplace that meets legal and contractual expectations and actively supports occupational health and safety.

Qualifications

- Same qualifications as the Safety Representative in addition to 3 years of Safety Management experience or Additional certifications like the Certified Safety Manager (CSM) designation from the National Association of Safety Professionals (NASP) can also be beneficial.

B-5 TECHNICAL SPECIFICATIONS AND DRAWINGS

The SUBCONTRACTOR shall perform work in accordance with the national codes, specifications, drawings, exhibits, and other documents, which by reference are made a part of the SOW.

Inspection of the work required by governmental agencies shall be arranged by the STR. The SUBCONTRACTOR shall request inspections through the STR, after the work is ready for inspection. In-process oversight of the SUBCONTRACTOR'S in-process Work shall be performed by the STR's construction project support personnel as appropriate.

5.1. Specifications

Codes and standards listed below are required for all subcontractors to adhere to. NNSS Road Repairs Specification #01562-SPC-01 will be provided to all subcontractors. Refer to the "Paving and Drawing Specifications Addendum" attachment for further information on each document.

SPEC NUMBER	TITLE	REV	PAGES
<i>American Association of State Highway and Transportation Officials (AASHTO)</i>	<i>Standard Specifications for Transportation Materials and Methods of Testing</i>	<i>28th Edition 2008</i>	
<i>Asphalt Institute (AI)</i>	<i>The Asphalt Handbook</i>	<i>7th Edition, 2007</i>	
<i>State and Local Regulations</i>	<i>Nevada Department of Transportation (NDOT) Standard Specifications for Road and Bridge Construction</i>	<i>2014</i>	
<i>State and Local Regulations</i>	<i>Regional Transportation Commission (RTC) of Southern Nevada Uniform Standard Specifications for Public Works Construction of Off-Site Improvements Clark County Area Nevada</i>	<i>Current Edition</i>	
<i>State and Local Regulations</i>	<i>Federal Highway Administration Manual on Uniform Traffic Control Devices</i>	<i>2009 with Revisions 1 and 2</i>	
<i>State and Local Regulations</i>	<i>Federal Highway Administration Standard Highway Signs and Markings (SHSM) Book – Design Details</i>	<i>2004 with 2012 Supplement</i>	
<i>01562-SPC-01</i>	<i>NNSS Road Repairs Specification for Chip Seal Surface Treatment</i>	<i>0</i>	<i>15</i>

5.2. Drawings

DRAWING NUMBER	TITLE	REV	PAGES
<i>State and Local Regulations</i>	<i>Regional Transportation Commission (RTC) of Southern Nevada Uniform Standard Drawings for Public Works Construction of Off-Site Improvements Clark County Area Nevada</i>	<i>Current Edition</i>	
<i>State and Local Regulations</i>	<i>Nevada Department of Transportation (NDOT) Standard Plans for Road and Bridge Construction</i>	<i>2020</i>	

B-6 PLACE OF PERFORMANCE

6.1. Delivery Location

Delivery location will be Other: Materials will be taken directly to the job site or designated lay down yard.

6.2. Work Location

Work will be performed at Other: For any work performed on the NNTS site or in an MSTs controlled facility, the provision of the On-Site services shall apply to this subcontract.

6.3. Site Access and Work Hours

MSTs personnel at the NNSS work a standard 4/10 schedule. The standard work week consist of ten (10) hours of work between 6:00 a.m. and 4:30 p.m. with one-half hour designated as an unpaid period for lunch, Monday through Thursday.

Onsite work performed outside normal operating hours shall be coordinated and/or approved through the STR and/or the Procurement Specialist prior to performing the work.

Access to certain areas of the site will be coordinated and cleared prior to an task orders being issues.

6.4. Badging

Any on-site work will be coordinated with the STR in accordance with the SOW and site-specific training requirements. The SUBCONTRACTOR shall wear a MSTs issued security badge identifying themselves. A minimum of 7 working days advance notice is needed for site badging. SUBCONTRACTOR employees shall be required to submit to vehicle searches and not personally carry or transport certain prohibited articles.

B-7 CLEARANCE REQUIREMENTS

The following access authorization or clearance requirements are required.

1) Check all that apply:

- ☒ No security clearance; unclassified work
- ☐ DOE L
- ☐ DOE Q
- ☐ HSPD-12 PIV Credential

2) If applicable, add any or all parts of the following statement security qualifications:

- ☐ The SUBCONTRACTOR shall have the ability to obtain a U.S. Department of Energy (DOE) facility security clearance and have personnel capable of obtaining a Q-type or L-type security clearance.
- ☐ Q- or L-type security clearance is required for all SUBCONTRACTOR personnel having access to classified information or special nuclear material when performing such work.
- ☐ A corresponding level of security clearance from another federal agency may be applicable if approved by the MSTs and DOE.
- ☒ N/A

B-8 SPECIAL REQUIREMENTS

8.1. Personal Protective Equipment

SUBCONTRACTOR shall be responsible for providing Personal Protective Equipment (PPE) for all SUBCONTRACTOR personnel. PPE shall be suitable for the working environment of the project. .

Minimum PPE is defined as:

- Steel-Toed boots (safety shoes).
- Ear Protection.
- Hard hat.
- Safety glasses.
- Hi Vis Vest.

8.2. Qualifications, Licensing, Certifications

In order to determine whether the SUBCONTRACTOR is qualified to perform the scope of work as outlined, the SUBCONTRACTOR shall have the following qualifications:

1. Experience - SUBCONTRACTOR shall have the following job experience
 - 1.1. SUBCONTRACTOR shall have minimum 10 years of experience in road construction and rehabilitation.
 - 1.2. SUBCONTRACTOR shall have previous experience of progressive responsibility in administrative coordinative program experience
 - 1.3. SUBCONTRACTOR shall have demonstrated experience at a government facility, working with multiple regulators and clients in an operational environment.
 - 1.4. SUBCONTRACTOR shall have experience in preparing evaluations and forecasts for maintenance

services to ensure service delivery

2. Licenses – SUBCONTRACTOR shall have the following job-specific licenses:

2.1. NA

3. Certifications – SUBCONTRACTOR shall have the following job-specific certifications:

3.1. NA

In addition to the above, the SUBCONTRACTOR shall provide qualified personnel throughout the period of performance of the Subcontract. SUBCONTRACTOR shall be responsible for ensuring its personnel meet and/or maintain current and valid training requirements, certifications and are fully capable to complete the duties described through the entirety of the Subcontract period of performance.

8.3. Government Assets

8.3.1 Use of Government Vehicles	
☒	There is NO anticipated need for any SUBCONTRACTOR employees to use a Government-furnished vehicle in the performance of this SOW. The SUBCONTRACTOR's employees, therefore, are specifically prohibited from driving any Government-furnished vehicles under the performance of this SOW unless this SOW is formally so modified by the parties and the employee(s) will present a valid driver's license to the STR for review.
☐	One or more SUBCONTRACTOR employees will have access to Government-furnished vehicles while performing this SOW.

8.3.2 Government Property	
☒	Government Property NOT anticipated to be furnished to or acquired by the SUBCONTRACTOR under this SOW.
☐	Pursuant to FAR 52.245.1 – Government Property, the following Government-owned property will be furnished to the SUBCONTRACTOR. The SUBCONTRACTOR shall be responsible for managing the Government-Furnished Property (GFP) below and/or Contractor-Acquired Property (CAP) as required in accordance with FAR 52.245-1. A list of the property to be furnished to the SUBCONTRACTOR can be found in Appendix Choose an item, along with any special technical and/or handling instructions.

8.4. Permits

Except for permits furnished by the CONTRACTOR, the SUBCONTRACTOR shall, without additional expense to the CONTRACTOR be responsible for obtaining any and all necessary licenses and permits.

The CONTRACTOR will without cost to the SUBCONTRACTOR, furnish the permits listed below. All such CONTRACTOR-furnished permits are available for examination at the project office of the CONTRACTOR during regular business hours.

[N.A

The SUBCONTRACTOR shall also be responsible and liable for all materials delivered and Work performed until completion and acceptance of the entire Work, except for any completed unit of Work which may have been accepted under the SUBCONTRACTOR.

8.5. Quality Assurance (QA)

The work as described has been identified to be.	
☐	SAFETY CLASS/SAFETY SIGNIFICANT SERVICES AND/OR COMMODITIES

	(NUCLEAR/RADIOLOGICAL) This PO is related to items or services used in support of the nuclear and/or radiological mission(s) of the Nevada National Security Site, therefore: The SUBCONTRACTOR shall implement and maintain a Quality Assurance (QA) program in accordance with at least one the following quality assurance criteria and requirements: • ASME NQA-1 (2015) quality assurance requirements for nuclear facility applications • ASME NQA-1 (2008 with 2009 addenda) quality assurance requirements for nuclear facility applications • Equivalent program authorized in writing by the contractor's quality assurance organization In addition, the SUBCONTRACTOR shall be responsible for: Price Anderson Amendments Act (PAAA) The item or service identified in the purchase order agreement is being procured by a contractor to the Department of Energy (DOE)/National Nuclear Security Administration (NNSA). This item or service is intended to be used in the performance of activities that (1) prevent or mitigate radiological or harm to the worker, the public or the environment or (2) provide a healthful and safe workplace for DOE/NNSA contractor personnel. Therefore, the SUBCONTRACTOR is responsible for assuring that the items or services provided under this purchase agreement meet the stated requirements. SUSPECT/COUNTERFEIT ITEMS The SUBCONTRACTOR will take positive measures to ensure that only new, unused equipment/material from acceptable sources is provided under this subcontract. Notwithstanding, any other provisions of this subcontract, should any suspect/counterfeit items or components be found within or on this equipment during CONTRACTOR receipt inspection, SUBCONTRACTOR shall, at its expense, promptly replace such items or components.
☒	GENERAL SERVICES AND/OR COMMODITIES This PO is for items or services that support the mission(s) of the Nevada National Security Site, therefore: SUSPECT/COUNTERFEIT ITEMS REQUIREMENTS: The SUBCONTRACTOR will take positive measures to ensure that only new, unused equipment/material from acceptable sources is provided under this subcontract. Notwithstanding, any other provisions of this subcontract, should any suspect/counterfeit items or components be found within or on this equipment during CONTRACTOR receipt inspection, SUBCONTRACTOR shall, at its expense, promptly replace such items or components. These requirements shall be flowed down to all levels of SUBCONTRACTORS as it pertains to this procurement activity.

8.6. Lower-Tier Subcontracts

The SUBCONTRACTOR shall ensure that LOWER-TIER SUBCONTRACTORS performing elements of the Subcontracted Scope of Work at sites controlled/managed by the CONTRACTOR or NNSA adhere to the SUBCONTRACTOR'S Site-Specific Safety Plan (SSSP). The SUBCONTRACTOR is responsible for ensuring that its LOWER-TIER SUBCONTRACTORS are included in the SUBCONTRACTOR'S SSSP and that they comply with all the requirements of this Subcontract.

If, after award, the SUBCONTRACTOR proposes to use any new LOWER-TIER SUBCONTRACTORS not listed in initial subcontract, the SUBCONTRACTOR shall notify the CONTRACTORS Procurement Specialist at least 10 business days before the proposed start date of the new LOWER-TIER SUBCONTRACTOR. The SUBCONTRACTOR will submit any required LOWER-TIER SUBCONTRACTOR'S, forms and documentation including "Safety and Health History" for CONTRACTOR review and acceptance. LOWER-TIER SUBCONTRACTORS shall not perform any work prior to the CONTRACTOR'S approval in writing provided by the Procurement Specialist.

B-9 ENVIRONMENTALLY PREFERABLE PRODUCTS

MSTS is required by the U.S. Department of Energy to purchase Environmentally Preferable Products (EPP) (also known as green or sustainable purchasing) and are also required to flow those procurement requirements to their SUBCONTRACTOR. When designing materials and/or supplying materials to be used onsite as part of a subcontract SOW, those materials must meet these same requirements.

The following is a list of EPP types that must be used if they are available:

- **Products with Recycled Content.** MSTS supports efforts that reduce or eliminate environmental hazards, conserve environmental resources, minimize life-cycle cost and liabilities. Towards the end, the acquisition cycle is viewed as an important key in understanding what is brought onto the Site as well as identifying what can be reused/recycled. Focus is directed on recycled-content, biobased-content, ozone-depleting substances, and other environmental impacts. Specific additional clauses are included in this solicitation that address potential requirements and preferences based on the nature of the item being considered for purchase.
- **Water Efficient Plumbing Products.** When purchasing commercially available, off-the-shelf water consuming products, products must meet EPA's WaterSense standards (<http://www.epa.gov/watersense>).
- **Non-Toxic or Less Toxic Alternatives**
- **Green Certified Products.** (e.g., Design for Environment, Green Seal)
- **Bio-Based Products.** MSTS will give preference to acquiring Department of Agriculture designated biobased products. For more information to this program, see www.biopreferred.gov.
- **Energy Efficient Products.**
 - EPA Energy Star® When purchasing commercially available, off-the-shelf energy-consuming products, products must be Energy Star rated (www.energystar.gov).
 - Federal Energy Management Program designated products When purchasing commercially available, off-the-shelf energy-consuming products, products must use no more than one watt of standby power as defined and measured by International Electrotechnical Commission (IEC) code 62301 or otherwise met [FEMP specifications](#) for low standby power consumption. If FEMP has not specified a standby power level for a product category, the item shall be the lowest standby power consumption available.
- **Energy Efficient Electronics.** When purchasing the following products, EPEAT ratings will apply:
 - Desktop and Notebook Computers – must meet the EPEAT silver rating or higher
 - Displays, Monitors, Integrated Desktop Computers, Workstation Desktops, Thin Client, Workstation Notebooks, and/or Tablet Notebooks – must meet the EPEAT silver rating or higher
 - Fax Machines, Multifunction Devices, and Printers – must meet the EPEAT bronze rating or higher
 - Copiers and Digital Duplicators – must meet the EPEAT silver rating or higher
- **Reuse of Leased IT Electronic Equipment** In accordance with DOE Order 436.1, Departmental Sustainability, MSTS is striving to reduce or eliminate environmental hazards, conserve environmental resources, minimize life-cycle cost and maximize operational sustainability through the incorporation of electronics stewardship practices thereby minimizing the economic and environmental impacts of managing toxic by-products and hazardous wastes generated in the conduct of site activities. Therefore, MSTS requires that at the end of the lease period, the equipment is to be reused, refurbished, donated, or recycled using environmentally sound management practices.

B-10 MEETINGS

After subcontract award, a Subcontract Kickoff Meeting, is requested, which may be a conference call, an internet

meeting, or a meeting to be held at MSTs. The time, date, and agenda for the meeting will be provided to the SUBCONTRACTOR by MSTs.

The SUBCONTRACTOR shall interface with various MSTs (and other) organizations through MSTs' Procurement Specialist (or STR for in-scope work), as required, or at points and frequency determined by the Procurement Specialist.

MSTs will issue meeting notices and prepare an agenda and minutes for each meeting addressed in this Section. When applicable, minutes will identify action items, assigned actioner, and due dates. The purpose of the meetings is the exchange of work-related information. The person or persons designated by the SUBCONTRACTOR to attend all meetings shall have all required authority to make decisions and commit SUBCONTRACTOR to technical decisions made during meetings.

- A. **Site Labor Conference:** Will be held between MSTs, the appropriate union(s), and the SUBCONTRACTOR before work commences at the NNSS in accordance with the applicable Project Labor Agreements.
- B. **Task Order Kickoff Meeting:** after issuance/acceptance of the subcontract, MSTs will conduct a meeting with the SUBCONTRACTOR and major lower-tier SUBCONTRACTORS. The meeting's purpose is to provide the SUBCONTRACTOR with additional information as required to accomplish the scope specified in this SOW, and to develop lines of communications, and a working relationship. This meeting will focus on a discussion of the work scope and goals and roles and responsibilities of each participant. Pertinent documents will be reviewed discussed. The SUBCONTRACTOR shall prepare meeting minutes that emphasize agreements, commitments, and planned actions.

The SUBCONTRACTOR shall submit the final minutes after the meeting in accordance with the Submittal Register.

- C. **Status Meetings:** Project status meetings will be held weekly either by MS Teams or in person to review the progress, to provide weekly schedule status, and exchange work-related information, including but not limited to design and scope changes, progress, coordination with functional utility providers, and scheduling issues. The SUBCONTRACTOR shall prepare meeting minutes that emphasize agreements, commitments, and planned actions. The SUBCONTRACTOR shall submit the final minutes after the meeting in accordance with the MSR.
- D. **Safety Meetings:** SUBCONTRACTOR shall perform and document daily pre-job meeting using the MSTs Pre-job Briefing Form 1063B. Late arrivals and/or visitors shall be provided with the same daily briefing. The SUBCONTRACTOR is also required to perform a documented weekly safety meeting. This documentation shall be maintained onsite for the job duration for review upon request.

FREQUENCY	DURATION	TITLE	DESCRIPTION / PURPOSE
Pre Task Order Issuance	Will vary by TO	Pre Job Walkdown	Walkdown proposed work to determine quantities for TO Estimate and schedule
At start of project	Will vary by TO	Kickoff Meeting	Review work flow and schedule
During construction	Will vary by TO	Recurring progress Meeting	Review progress and path forward.
At end of project delivery	Will vary by TO	Close out	Final acceptance of work

B-11 SUBMITTALS

If the SOW requires the submittal of SUBCONTRACTOR Information, the following apply:

- The following items shall be submitted to the submittal e-mail address(es) as indicated on Appendix A , *Submittal Register*, identifies deliverables due during the execution of this subcontract and the recipient.
- The SUBCONTRACTOR shall include the Procurement Specialist and STR on the transmittal.
- Subcontractor information shall be submitted in either hard copy or electronic format (If electronic, it must be viewable using either Microsoft® Windows®, Microsoft® Office, or Adobe® Acrobat® software).

- Submittals should consist of any information, documentation, data, etc. which will require review/approval or used as verification or acceptance of work completed.

B-12 DELIVERABLES

A. Schedule and Management Reports

The SUBCONTRACTOR shall submit a Monthly Activity Status Report by the fifth of each month for the previous month. The Monthly Activity Status Report shall include but not be limited to the following information.

- Project Manager's narrative accomplishment highlights, status assessment for activities planned for the next month (i.e., accomplishments and 30 day look ahead)
- Issues and concerns (cost, schedule, technical), recommended solutions, and progress made toward resolution.
- New or outstanding agreements and/or commitments for problem or technical issue resolution.
- Schedule performances with respect to the Performance Measurement Baseline for current month and contract-to-date.
- Action Items List showing the cumulative status of action.
- Monthly Accrual Report

- B. The SUBCONTRACTOR is required to participate in the project turnover process by assisting the STR and CM in developing and completing the project punch list. The SUBCONTRACTOR shall notify the STR and CM no later than one (1) day after completing the punch list item(s).

B-13 PROJECT CONTROLS, MILESTONES & PERFORMANCE SCHEDULE REQUIREMENTS

A. Performance Schedule

The SUBCONTRACTOR shall submit its project schedule for approval after Notice of Award covering activities for the duration of the Subcontract and in accordance with the Submittal Register. The resource loaded schedule shall identify logical sequence and relationship of activities for design, submittals, procurement, delivery, installation, subcontracted work, milestones, and testing and inspections of the work covered by the subcontract. There shall be sufficient detail that identifies the major identifiable elements of the project that constitute a reasonable basis for progress reporting and/or payment. This shall be at a discrete level to reveal facility and system work sequencing as applicable. Activity durations shall be in working days. The schedule shall be based on MSTs's 4-10 work schedule (Monday through Thursday). The 4-10 working schedule closure days shall be as nonworking days on the SUBCONTRACTOR's schedule. The SUBCONTRACTOR schedule shall include line-item resource loading as an attachment to the project schedule. The schedule shall identify the dollar amounts for labor and materials separately for each activity shown on the schedule at a level of detail providing an accurate expenditure plan by month or other work breakdown consistent with request for progress requests.

B-14 APPENDIX

APPENDIX NUMBER	TITLE	REV	PAGES
Appendix A	Submittal Register	Rev #	Pages
Appendix A Section C, No. 008	MSTS Building Authority NNSS Construction Office and Equipment Trailer Permit Application		

The SUBCONTRACTOR shall meet the required schedule and provide the documents specified in accordance with the following submittals.

APPENDIX A SUBMITTAL REGISTER					
Section A: Purchase Order/Subcontract Information					
Subcontractor Name: <i>TBD</i>			SOW Title: Parking and Road Maintenance/Paving Service		
Purchase Order and Release Number: <i>TBD</i>			Requisition Number: <i>REQ-0031447</i>		
Section B: Submittal Delivery Requirement					
Submittals shall be electronically, unless otherwise noted, to: <i>Procurement Specialist; parkers@nv.doe.gov and Subcontract Technical Representative; ReginoH@nv.doe.gov</i> <i>Insert any special notes. DO NOT INCLUDE internal distribution notes.</i>					
Section C: Submittal Requirement Details					
NO.	TITLE	REFERENCE	DUE DATE / FREQUENCY	REVIEWED BY	COMMENTS
001.	Subcontract Schedule	<i>insert reference</i>	No later than 10 calendar days from date of award, update <i>insert SOW required frequency</i>	ProcSpec STR	Prior to the start of work
002.	Payment and Certification for Staff Augmentation Subcontracts	<i>insert reference</i>	Due once per quarter (i.e., every three-month period) during the Subcontract Period of Performance	ProcSpec STR	Provided using MSTS Form FRM-3185, "Payment Certification for Staff Augmentation Subcontract"
003.	Timesheets/Field Tickets Progress Report/Employee Count	<i>insert reference</i>	Monthly, NLT 5 th day of new month	ProcSpec STR	
004.	Workplace Substance Abuse Program to include Evidence of Compliance with SUBCONTRACTOR's Workplace Substance Abuse Program	<i>insert reference</i>	Annually, based on date of CONTRACTOR acceptance	ProcSpec	Provide any changes to the Program and evidence for that year's compliance in accordance with Title 10 Code of Federal Regulations Part 707
005.	Subcontract Hours, FRM-1253	<i>insert reference</i>	On or prior to the 28 th of the month	STR	
006.	Monthly Total Recordable Incident Rate (TRIR) and Days Away, Restricted or Transfer Case Rate (DART):	<i>insert reference</i>	On or prior to the 28 th of the month	STR	

APPENDIX A SUBMITTAL REGISTER

Section A: Purchase Order/Subcontract Information

Subcontractor Name:	<i>TBD</i>	SOW Title:	Parking and Road Maintenance/Paving Service
Purchase Order and Release Number:	<i>TBD</i>	Requisition Number:	<i>REQ-0031447</i>

Section B: Submittal Delivery Requirement

Submittals shall be electronically, unless otherwise noted, to: *Procurement Specialist; parkers@nv.doe.gov and Subcontract Technical Representative; ReginoH@nv.doe.gov*
Insert any special notes. DO NOT INCLUDE internal distribution notes.

Section C: Submittal Requirement Details

NO.	TITLE	REFERENCE	DUE DATE / FREQUENCY	REVIEWED BY	COMMENTS
007.	Injury/Illness Infraction Report, FRM-0018	<i>insert reference</i>	Immediately	STR	The SUBCONTRACTOR is required to report all job-related injuries and illnesses, regardless of severity,
008.	NNSS Construction Office and Equipment Trailer Permit Application	3.6.4	28 days prior to being on site	STR	
009.	Add lines as needed, delete any blank lines	<i>insert reference</i>	<i>Frequency</i>	ProcSpec, STR or Both	<i>List any comments</i>
010.	Restricted or Transfer Case Rate (DART):				
011.					

NLT = No Later Than
NTP = Notice to Proceed
TLO = Transmittal Letter Only



SOW Number: Enter the SOW rev number or N/A
Appendix Revision Number: Enter the appendix rev number
Appendix Revision Date: Enter the Appendix rev date