

HOMESTEAD NATIONAL MONUMENT BEATRICE, NE

EDUCATION CENTER FIRE SUPPRESSION
PMIS 207662

PROJECT SPECIFICATIONS



NATIONAL PARK SERVICE
December 15th, 2022

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SECTION 01 10 00

DIVISION 1 SHORT FORM GENERAL REQUIREMENTS

PART 1 – GENERAL

ITEM 1 - DESCRIPTION OF WORK

1.1 Background: The Homestead Education Center was constructed in the 1960s as a wood framed building to house exhibits and provide education to visitors on the purpose of the park. The building is approximately 7,700 square feet and also includes office, and curatorial space. The purpose of this project is provide life safety upgrades to the building that will include new wet and dry pipe sprinkler systems. Additional work will include a new fire pump located in a new constructed building east of the existing utility building.

1.2 Work Covered by the Contract Documents:

- A. Project Location: Homestead National Monument Education Center, 8523 NE-4, Beatrice, NE 68310.
- B. Work consists of: The work includes replacement of an existing fire pump with new diesel driven fire pump located in a separate newly constructed out building. A new fire service entrance will be installed on the east side of the building. A wet pipe fire sprinkler system will be installed throughout the building. A dry pipe sprinkler system will be installed to protect the attic and over hangs.
- C. All work will be performed under a single contract.

Period of performance: Work shall be completed within 270 calendar days of the start date provided on the Notice to Proceed. The period of performance is inclusive of **14** weather days.

ITEM 2 - EXISTING UTILITIES

2.1 Existing Utilities: Notify Contracting Officer (CO), Contracting Officer's Representative (COR) and utility companies to coordinate proposed locations, times for excavation and request location services prior to any digging operation.

2.2 Contractor shall be responsible for locating and preventing damage to known utilities. If contractor damage occurs, alert CO and COR as soon as safely possible, and repair utility at no additional expense to the Government. If damage occurs to an unknown utility, contact CO and COR as soon as safely possible.

2.3 Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Government or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated below:

2.3.1 Notify CO and COR not less than five business days in advance of proposed utility

interruptions.

2.3.2 Hours for Utility Shutdowns: Shut downs shall not exceed 2 to 3 hours. Temporary provisions will be needed by the Contractor for periods longer than stated allowance or if required for critical systems as determined by COR.

ITEM 3 - CONTRACTOR'S USE OF PREMISES

3.1 Conduct of Operations: At all times the contractor shall conduct his operations in conformance with the rules and regulations promulgated by the Secretary of the Interior for the National Park Service, and applicable park rules and regulations prescribed by the Park Superintendent.

- A. No signs or advertisements (except those specified herein and as required for safety) shall be displayed on the construction site or within the park unless approved by the Contracting Officer.
- B. Smoking is not permitted within any Federal building or within 25 feet of entrances, operable windows, or outdoor air intakes.
- C. Public Use of Site: Contractor shall at all times conduct operations to ensure the least inconvenience to the public. The Education Center shall be open to the public during working hours and the Contractor shall coordinate in advance with the COR necessary provisions for work within public spaces of the facilities as it pertains to providing notification, protection of public, or temporary blocking off of areas in order to conduct work.

3.2 On-site work hours: Work shall be generally performed during normal business working hours of 7 a.m. to 3:30 p.m., Monday through Friday, except when otherwise indicated.

- A. Work on Saturdays, Sundays, Federal holidays, early morning, or at night may not be performed without prior consent from the CO and COR. Submit requests for work outside of the stated normal business hours to the CO and COR for approval at least 48 hours in advance of the work.

The following Federal holidays are observed by the National Park Service:

New Year Day
Martin Luther King, Jr's Birthday
Washington's Birthday
Memorial Day
Juneteenth National Independence Day
Independence Day
Labor Day
Columbus Day
Veterans Day
Thanksgiving Day
Christmas Day

- B. Note: Any of the above holidays falling on a Saturday will be observed on the preceding Friday; holidays falling on Sunday will be observed on the following Monday. The specific day that each holiday is recognized for each year can be found at the following site: [Federal Holidays \(opm.gov\)](https://www.opm.gov).

3.3 Contractor Use of Site:

- A. General: Contractor shall have limited use of the site for construction operations. Limit use of premises to construction area as shown on the cover sheet of the drawings. Do not disturb portions of Project site beyond areas in which the Work is indicated.
- B. Limits: Limit use of site to areas as specified on the coversheet.
- C. Driveways and Entrances: Keep driveways, access roads, and entrances serving premises clear and available to Government, Government's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials. Schedule deliveries to minimize use of driveways and entrances.
- D. Limit site disturbance, including earthwork and clearing of vegetation, to areas where site utilities and new building will be installed and staging areas as defined above:
- E. Utilities
 - a. General: Cost or use charges for temporary facilities shall be included in the Contract Sum as required.
 - b. Water Service: Water from existing water system is available for use without metering and without payment of use charges (note: water may only be used from existing faucets and hose bib spigots except when as required for testing and connection of hydrants for function of the system installed) Use resources wisely and minimize waste of water.
 - c. Electric Power Service: Electric power from existing system is available for use without metering and without payment of use charges (note: electrical usage is limited to 110V duplex outlets). Use power in a resourceful manner and avoid excess power waste.
 - d. Toilets: Contractor provided for contracting personnel, sufficiently lighted and ventilated toilet facilities in weatherproof, sight proof, handicap accessible (if required), sturdy enclosures with privacy locks. Coordinate with COR for approved location if not shown on attached site plan.
- F. Security and Protection facilities:
 - 1. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction in ways and by methods that comply with state and federal environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
 - 1. Cleaning of Equipment: The Contractor shall ensure that prior to moving on to the Project Area, all equipment, is free of soil, seeds, vegetative matter, or other debris that could contain or hold seeds. Ensure that all equipment has been pressure washed and is free of exotic species prior to start-up of operations and moving of equipment to Project Area. Equipment shall be considered free of soil, seeds, and other debris when a visual inspection does not disclose such material. Disassembly of equipment components or specialized inspection tools are not required.
 - 2. Tree and Plant Protection: Provide Tree Protection fence at drip line of trees impacted in construction area. Coordinate with COR.
 - a. Restore damaged areas to original condition, repairing or replacing damaged trees and plants, at no additional expense to the Government.

- b. Provide temporary barriers to protect existing trees and plants and root zones.
 - c. Do not remove, injure, or destroy trees or other plants without prior approval. Consult with Contracting Officer Representative and remove agreed-on roots and branches that interfere with construction.
 - d. Do not fasten ropes, cables, or guys to trees.
 - e. Carefully supervise excavating, grading, filling, and other construction operations near trees to prevent damage.
3. Pest Control: Follow best practices to minimize attraction and harboring of rodents, roaches, and other pests and to perform extermination and control procedures at regular intervals so Project will be free of pests and their residues at project completion. Perform control operations lawfully, using environmentally safe materials.
 4. Site Enclosure Fence: A site enclosure fencing will be required to the extent of protecting park staff and the public from any open excavations or trenching for the period of time a fall hazard is present. Fencing at a minimum shall be 42", high visibility orange fencing secured by T-posts. Coordinate proposed fencing placement with COR. Remove fencing once excavation is backfilled and safety hazard is eliminated.
 5. Security Enclosure and Lockup: NA
 6. Temporary Enclosures: Provide temporary enclosures as required for protection of construction in progress and completed, from exposure, foul weather, other construction operations, and similar activities. Provide temporary weathertight enclosure for building exterior.

3.4 Storage - Staging Areas :

- A. Confine Storage of materials and equipment to the project staging area noted on the plans/aerial. 5 parking stalls and 15'x30' turf and aggregate camper pad located on west side and detailed on the cover sheet of the drawings may be used by the contractor.

3.5 Preservation of Natural Features: The project is located in close proximity to Cub Creek and all measures should be taken to avoid impacts to the natural waterway which may include but not limited to fuel spills and soil erosion discharge.

3.6 Hauling Restrictions: Contractor to verify path to site and meet state and county road requirements and height restrictions for all park work/access.

3.7 Housekeeping:

- A. Keep project neat, orderly, and in a safe condition at all times.
 - a. Dispose of waste materials and recycling legally outside the park. The contractor shall not use park dumpsters
 - b. Address Recycling: Government goal is to salvage and recycle as much nonhazardous construction waste as possible. Use sustainable methods to extent possible during this project, recycling material as is probable with local means. Maintain accurate documentary records for submittal of all recycled materials used including fly ash and slag cement.

3.8 Occupancy Requirements for Buildings:

A. Existing Buildings:

1. Full Government Occupancy: Government will occupy buildings that will be under construction during the entire contract period. Cooperate with Government during construction operations to minimize conflicts and facilitate Government usage. Perform the Work so as not to interfere with Government's day-to-day operations. Maintain existing exits, unless otherwise indicated.
 - a. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from the CO or COR.
 - b. Maintain existing building in a weather tight condition throughout construction period. Repair damage caused by construction operations. Protect building and its occupants during construction period.

3.9 Photo Documentation:

Contractor must provide existing condition, progress and completion photos. All photos shall be in focus, show maximum range of depth of field general photo and then close up detail photo as needed. Shall be in JPEG digital form and submitted electronically by email or via CD-R Archival Gold or DVD-R Archival Gold media with printed labels and 8 mega pixels minimum within 7 days from time of taken or as approved by COR.

A. Existing Condition Images:

Before starting construction, take color, dated, digital images of project site and adjacent property/roads/etc. that may be impacted by construction activity/traffic. Include existing items to remain or be salvaged from different vantage points and with context for location identification.

B. Construction Progress Images:

1. Document all sub-surface work/ trenches etc. prior to backfill with photos covering enough overall field view to show location and then zoom in for details. (Locations and dimensions shall also be noted on as built drawing set.)
2. Maintain organized index for photos with date, description, etc..
3. Additional images as needed when questions or emergency situations occur. Submit within 24 hours.

C. Completion Images:

1. Document all completed work within scope of work.
2. Maintain organized index for photos with date, description, etc..
3. Additional images as needed when questions or emergency situations occur. Submit within 24 hours.

3.10 Fire and Life Safety:

As a minimum, conduct one weekly 15 minute "toolbox" safety meetings. These meetings shall be conducted by a foreman or supervisor and attended by all construction personnel at the worksite. Topics need to coincide with work scheduled for the following week. Document and submit meeting minutes to the CO and COR within one day after the meeting and document the meetings on the daily reports.

- A. Comply with the requirements of NFPA 241 (Standard for Safeguarding Construction, Alteration, and Demolition Operations). Take all necessary precautions to prevent fire during construction. Provide adequate ventilation during use of volatile or noxious substances.
- B. Store and handle hazardous materials in accordance with manufacturer's and OSHA 29CFR1926 Subpart D requirements 1926 | Occupational Safety and Health Administration (osha.gov). Maintain readily available, on site, MSDS/Safety Data Sheets (SDS) for each chemical.
 - i. Immediately report all spills of hazardous materials to the CO, COR and park.
 - ii. Maintain a spill emergency response kit.
 - iii. Train employees how to respond to a spill and use the emergency response kit.

3.11 Noise and Acoustics Management

- A. Noise Control: Perform operations to minimize noise. Perform noise-producing work in less sensitive hours of the day or week as directed by the Contracting Officer or COR.
- B. Repetitive and/or intermittent, high-level noise: Permitted only during Daytime.

- 1. Do not exceed the following dB(A) limitations at 50 feet:

<u>Sound Level in dB(A)</u>	<u>Time Duration of Impact Noise</u>
70	More than 12 minutes in any hour
80	More than 3 minutes in any hour

- 2. Maximum permissible construction equipment noise levels at 50 feet:

<u>EARTHMOVING</u>	<u>dB(A)</u>	<u>MATERIALS HANDLING</u>	<u>dB(A)</u>
Compressors	75	Pneumatic Tools	80
Pumps	75	Saws	75
Generators	75	Vibrators	75

- C. Ambient Noise:

- 1. Maximum noise levels (dB) for receiving noise area at property line shall be as follows:

- a. Residential receiving area :

Daytime:	65 dB	Nighttime:	45 dB
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- b. Commercial/Industrial receiving area:

Daytime:	67 dB	Nighttime:	65 dB
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ITEM 4 - COMMENCEMENT, PROSECUTION, AND COMPLETION

4.1 The Contractor shall commence work in accordance with the terms and conditions of the contract. Contractor shall coordinate and incorporate long lead and delivery time items within the schedule.

ITEM 5 - EXAMINATION OF THE SITE

5.1 All bidders are urged to visit the job site and examine existing conditions before submitting bids. Contractors will be accountable for understanding existing conditions. No cost changes for items viewable during site visit will be allowed.

ITEM 6 - ABBREVIATIONS

6.1 The list of abbreviations, standards and organizations which may be used in/referred within the Construction Specifications or Special Provisions, may be found linked from the listed page below. On the home page, follow the link under “**Contracting and Procurement**” labeled “**NPS Reference Standards.**”

<https://www.nps.gov/orgs/1671/do-business-with-us.htm>

ITEM 7 - ACCIDENT PREVENTION

7.1 Description: The work of this section consists of establishing and implementing an effective accident prevention program (APP) and providing a safe environment for all personnel and visitors.

7.2 Submittals:

- A. Accident Prevention (Safety) Plan (APP): Submit a **site specific** accident prevention (safety) plan. The Plan shall be written to comply with OSHA and project requirements (a generic plan is not acceptable) including but not limited to the following:
 - 1. Name and qualifications of responsible supervisor to carry out the program.
 - 2. First aid and rescue procedures.
 - 3. Training, both initial and continuing.
 - 4. Outline of each phase of the work, the hazards associated with each major phase, and the methods proposed to provide for property protection and safety of the public, National Park Service personnel, and Contractor's employees. Identify the work included under each phase, with a Job Hazard Analysis (JHA)/Job Safety Analysis (JSA), etc. A sample JHA template may be provided upon request.
 - 5. Planning for possible emergency situations, such as cave-ins, explosions, fires, floods, power outages, and wind storms. Such planning shall take into consideration the nature of construction, site conditions, and degree of exposure of persons and property.
 - 6. Contractor to identify nearest location of medical facility for emergencies
 - 7. Recognition that work will be performed in remote areas with limited communication or cell phone coverage if applicable.
 - 8. Supplemental hazard specific plans may be required IAW 29 CFR 1926 or 1910.
- B. Meeting and Inspection Reports: Safety Meetings: As a minimum, conduct 15 minute "toolbox" safety meetings. These meetings shall be conducted by a foreman and attended by all construction personnel at the worksite. Submit a report of safety meetings and inspections to CO and COR within one day after the meeting and document the meetings on the daily reports.

7.3 Qualification of Employees:

A. Ensure that employees are physically qualified to perform their assigned duties in a safe manner to include operators of vehicles and equipment. Provide operating instructions for all equipment.

B. Do not allow employees to work whose ability or alertness is impaired because of drugs, fatigue, illness, intoxication, or other conditions that may expose themselves or others to injury.

7.4 Accident Reporting: The Contractor shall report all accidents to the CO and COR as soon as safely possible and assist the CO and COR and other officials as required in the investigation of the accident.

7.5 First Aid Facilities: Provide access to facilities for the number of employees and appropriate to the hazards associated with the types of ongoing construction work at the site.

7.6 Emergency Instructions: Post telephone numbers and reporting instructions for ambulance, physician, hospital, fire department, and police in conspicuous locations at the work site.

7.7 Personal Protective Equipment (PPE): It is the Contractor's responsibility to require all those working on or visiting the site to wear necessary protective equipment at all times.

- A. PPE must meet requirements of applicable ANSI standards. Selection shall conform to OSHA 29CFR 1926 Subpart E.
- B. A hard hat use area shall be designated by the Contractor. The hard hat area shall be posted by the Contractor in a manner satisfactory to the Contracting Officer.
- C. All PPE will be serviceable at all times. At a minimum, maintain two sets of PPE including hard hats and all other Accident Prevention Plan required equipment.

7.8 Hazardous Materials: It shall be the responsibility of all operators and contractors, functioning within the park to properly cleanup, mitigate and remediate if necessary, all unauthorized discharges of hazardous materials or non-hazardous chemical and biological products released from fleet and/or other support vehicles or stationary sources. Response shall be consistent with guidelines established by federal, state and local regulations, and as outlined within the operator's Safety or Hazardous Materials Business Plan.

- A. If a spill, leak or other release occurs, the operator shall as soon as possible, without impeding cleanup, notify the National Park Service Emergency Dispatch.

ITEM 8 - PRECONSTRUCTION CONFERENCE: If the Contracting Officer decides to conduct a preconstruction conference, the successful offeror will be notified and will be required to attend. The Contracting Officer's notification will include specific details regarding the date, time, and location of the conference, any need for attendance by subcontractors, and information regarding the items to be discussed. See Item 9.1C below.

ITEM 9 - SUBMITTALS

9.1 General Submittal Procedures:

- A. General: Prepare and submit submittals required by individual Technical Specification Sections. Types of submittals are indicated in individual specific sections.

1. CM-16 Transmittal Form: All submittals shall be transmitted via electronic email using National Park Service form CM-16 form. The form will be provided by the Contracting Officer. No action will be taken on a submittal item unless accompanied by the CM-16 transmittal form. Submit completed CM-16 forms to the CO and the COR
- B. Submittal List: administrative required submittals are listed below in 9.1.C and does not include technical section submittal requirements included in each technical section.
- C. Preconstruction Conference Submittal: Satisfactory evidence of liability insurance coverage and workman's compensation, and any applicable bonds, must be submitted within 10 calendar days of Notice of Award. The following items shall be submitted a minimum of one week prior to the Preconstruction Conference. If all of these documents have not been received one week prior to the scheduled Pre-Construction Conference date, the conference will be cancelled, Notice to Proceed may not be issued, and the Contracting Officer will consider other contractual remedies. Work shall not commence until written Notice to Proceed has been issued. Contracting Officer will notify Contractor of tentative date for the Pre-Construction Conference:
1. Letter designating Project Superintendent.
 2. Construction Schedule. (Must include shop drawings, procurement time including long lead time items, mobilization, trade work progression and completion at minimum.)
 3. A comprehensive breakdown of the Schedule of Values.
 4. Accident Prevention (Safety) Plan (see section 7 of this document).
 5. A list of Subcontractors for this project.
 6. Written statements from subcontractors certifying compliance with applicable labor standard clauses (SF1413).
 7. Quality Control Plan.
- 9.2 Shop Drawings, Product Data, and Samples: Contracting Officer will provide sample cover sheet.
- A. Shop Drawings: Indicate all coordinating materials and work impacting the installation coordination, connection details, anchorage requirements, hardware locations, and installation details and locations.
1. Submit Shop Drawings according to Part 9.1 of this section to include one digital file (.PDF or .TIF) and two full size hardcopy documents to COR.
- B. Product Data: Provide component construction and specification data sheets, anchorage requirements and any other product specific data.
1. Submit Product Data according to Part 9.1 of this section to include one digital file (.PDF or .TIF) to COR.
- C. For submittals specified above, forward submittals to Contracting Officer and COR at least 15 days before need for approval (depends on length of project).
- D. After approving submittals, Contracting Officer and/or COR will return one copy to the Contractor. If submittals are not approved, Contracting Officer will return all copies to Contractor with reasons for rejection. Resubmit, identifying changes. Any work done before approval shall be at Contractor's own risk.

9.3 Approved Equals: If an item in this solicitation is identified as “brand name or equal” or lists more than 1 manufacturer, the description of the proposed item must reflect the characteristics and level of quality that will satisfy the Government’s needs as demonstrated by the salient physical, functional, or performance characteristics that “equal” products must meet and/or exceed that as specified in the solicitation or relevant specification.

- A. For each item proposed as an “approved equal,” submit supporting data, including:
 - 1. Drawings and samples as appropriate.
 - 2. Comparison of the characteristics of the proposed item with that specified and with the salient characteristics provided.
 - 3. Changes required in other elements of the work because of the substitution.
 - 4. Name, address, and telephone number of vendor.
 - 5. Manufacturer’s literature regarding installation, operation, and maintenance, including schematics for electrical and hydraulic systems, lubrication requirements, and parts lists. Describe availability of maintenance service, and state source of replacement materials.
- B. A request for approval constitutes a representation that Contractor:
 - 1. Has investigated the proposed item and determined that it is equal or superior in all respects to that specified.
 - 2. Will provide the same warranties for the proposed item as for the item specified.
 - 3. Has determined that the proposed item is compatible with interfacing items.
 - 4. Will coordinate the installation of an approved item and make all changes required in other elements of the work because of the substitution.
 - 5. Waives all claims for additional expenses that may be incurred as a result of the substitution.
- C. Approved Equals will be evaluated and approved/disapproved during the submittal process.

9.4 Progress Reporting: The initial Construction Schedule and Schedule of Values are required a minimum of one week prior to the Preconstruction Conference. After the Notice to Proceed is issued and after on-site work begins, progress will be documented via daily logs and by providing an updated Construction Schedule and Schedule of Values when requested; but minimally with each pay application. Submit digital copy electronically (PDF preferred) of all required documents. Construction Schedules are normally in bar chart form and indicate estimated starting and completion dates for each part of the work. For a pay application to be reviewed and processed in a timely manner, the following information must either be submitted prior to or accompany submission of the pay application:

- A. Daily/weekly progress reports during construction as part of the administration process.
- B. Updated Schedule of Values: Breakdown each lump-sum item into component work activities used in the schedule, for which progress payments may be requested. The Schedule of Values will form the basis for payment. The work activities broken out within the schedule of values shall be integrated into and made a logical part of the construction baseline schedule submitted under this specification. The total costs for the component work activities shall equal the contract price for that lump-sum item. The Contracting Officer may request data to verify accuracy of dollar values. A sample Schedule of Values format may be provided upon request.

ITEM 10 – TEMPORARY SERVICES

10.1 It is the Contractor's responsibility to provide temporary services, equipment, tools, and skilled labor as required for the chosen means and methods to perform the work in accomplishing this Contract.

ITEM 11 - PROJECT CLOSEOUT

11.1 Description: The work of this section consists of final cleanup, closeout submittals, final inspection procedures working toward Final Acceptance.

11.2 Cleaning: Remove all tools, equipment, surplus materials, and rubbish. Move attic stock to location coordinated with COR. At time of final inspection, project shall be thoroughly clean and ready for intended use. Inspector holds the right to reschedule if project is not ready for inspection.

11.3 Completion and Final Inspection: Contractor shall submit written certification of project completion and request a final inspection to the Contracting Officer and COR. The Contracting Officer or designee will make an inspection within 10 days of receipt of request or at a mutually agreeable time.

- A. If the work is determined to be complete following the final inspection with minor comments, the COR will prepare and provide the Contractor a Punch List noting outstanding items to be addressed.
- B. If the work is not determined to be complete following the final inspection, the Contracting Officer will notify Contractor in writing, stating reasons. Contractor, after completing the work according to the Contract Documents, shall resubmit completion and request a new final inspection. Re-inspection costs may be charged against the Contractor in accordance with the Inspection of Construction contract clause.
- C. Contractor shall complete the Punch List within 30 calendar days or a time directed by the CO.
- D. Once Contractor completes all items of work on the Punch List and all contractually required items are accepted, Contracting Officer will issue Letter of Final Acceptance of Work and request the final pay application.
- E. If the Contractor fails to complete the work within the time frame, the Contracting Officer may correct the work with an appropriate reduction in contract price or charge for re-inspection costs in accordance with the Inspection of Construction contract clause.
- F. Disposition of any permits and warranties required by the specifications in this section.

11.4 Final Acceptance of the Work: After all punch list deficiencies have been corrected, a Letter of Final Acceptance will be issued. A Release of Claims document must be executed and submitted to the Contracting Officer before final payment can occur.

11.5 Warranties

- A. Construction Warranty shall be based on date of final acceptance of the work and remain in effect for one year.

- B. Provide all manufacturer warranty information of products installed organized by Division. All contact information, extent of coverage and conditions shall be clearly noted as well as date of overall final acceptance.
- C. Information shall include operation and maintenance manuals for each warranted product.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXCUTION (NOT USED)

END OF SECTION