TECHNICAL SPECIFICATIONS

CITY PROJECT NO. FA-02, FA-07, FA-13

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SECTION 100

DEFINITION OF BID ITEMS

PART 1 – GENERAL

The bid item descriptions listed in the Bid Schedule of the proposal are not intended to be exclusive and comprehensive descriptions of all the work categories and scope necessary to complete the project. As such, the Contractor shall determine, segregate and include in his/her pricing for each bid item the cost for furnishing and installing all labor, materials, tools, equipment and other incidentals necessary to complete all of the contract work involved in the project, as described by the Contract Documents, complete in place.

Unless otherwise noted, estimated quantities on the bid schedule are approximate, however, the Contractor should self-verify the quantities as it relates to ordering sufficient material and scheduling work. Actual field measured quantities, complete in place, not the quantities listed in the bid schedule, will govern final payment.

PART 2 - BID ITEM DESCRIPTIONS

2.01 Mobilization. The contract price paid for Mobilization includes full compensation for the work required and necessary for Mobilization specified in Technical Specifications Section 102, “Mobilization”.

Mobilization will be paid by lump sum in accordance with the California Public Contract Code. The contract lump sum price for Mobilization shall not exceed five percent (5%) of the total base bid. Any amount excess of 5% of the total base bid shall be paid as part of the final payment.

2.02 Progress Schedule (Critical Path Method). The contract price paid for Progress Schedule (Critical Path Method) includes full compensation for the work required and necessary to perform the progress schedule work specified in Technical Specifications Section 101, “General Requirements,” including all necessary submittals.

Contractor will be due 33% of the contract price for Progress Schedule (Critical Path Method) after the approval of the baseline schedule. The remainder of the contract price will be evenly divided over the remaining progress payments.

2.03 Traffic Control. The contract price paid for Traffic Control includes full compensation for work required to implement and perform traffic control as specified in Technical Specifications Section 103, “Traffic Control”, including all necessary submittals, materials, implementation, and maintenance of the approved traffic control plans for all work in construction zones throughout the duration of the project.

Traffic Control will be paid by lump sum. Progress payments will be based on the percentage of traffic control work completed.

2.04 Stormwater Pollution Prevention. The contract price paid for Stormwater Pollution Prevention includes full compensation for performing the work required and necessary to implement and perform Stormwater Pollution Prevention as specified in Section 104, “Stormwater Pollution Prevention” of these Technical Specifications. The contract price shall include performing all the work necessary to prepare and implementing the Water Pollution Control Plan, and furnish, install and maintain all best management practices for the duration of the project in accordance with City and State standards, and as directed by the Engineer. This work includes all construction activities necessary to prevent construction dust and debris from leaving the site, including entering the storm drain system. The work includes furnishing, installing, and maintaining temporary drainage inlet protection and fiber rolls; street sweeping; and removing dirt, debris, and materials from the site at the completion of the project.

Stormwater Pollution Prevention will be paid by lump sum. Progress payments will be based on the percentage of stormwater pollution prevention completed.

2.05 Demolition The contract price for “Demolition” includes full compensation for required and necessary concrete removal work specified in Technical Specifications and shown on the plans.

Demolition shall be paid by lump sum. Progress payments will be based on the percentage of concrete removal completed.

2.06 Base Presidential Shingle Roof & Drain Gutters

The comprehensive plan for replacing the Police Department (PD) at 141 Demeter St & Community Development (CD) at 1960 Tete St roofs not only addresses the technical aspects of the project but also emphasizes the importance of maintaining the architectural and regulatory standards.

Roofs Removal and Disposal:

Remove the current roofing materials and dispose of them in compliance with environmental regulations and the best practices established by the City. Inspect the roof deck thoroughly to determine if any repairs are necessary. The contractor will pay close attention to identifying signs of dry rot or structural damage. In the event that dry rot or structural damage is found, the contractor will promptly and effectively address the issue. The contractor will guarantee thorough cleanup and the responsible disposal of all debris, leaving the work area clean and prepared for the subsequent stages of the project.

Roofing Installation:

Install new CertainTeed roof system or an equivalent approved system, prioritizing tenant safety and minimizing disruptions. Use CertainTeed Landmark Solaris Limited Lifetime shingles to mitigate heat absorption from sunlight, accordingly reducing cooling-related energy expenses for the buildings.

Contractor to install unpainted galvanized metal nosing along the perimeter edges of the roofs for added durability and protection.

The roofs replacement should mirror the existing roofs composition as much as possible.

Furthermore, functionality is paramount, as the replacement must ensure proper drainage to prevent water pooling. To achieve this, strategic placement of roof drains throughout the entirety of the roof will be implemented, promoting effective water runoff and minimizing the risk of structural damage.

The roof installation includes all construction activities necessary to prevent construction dust and debris from leaving the site, including entering the storm drain system. The work includes furnishing, installing, and maintaining temporary drainage inlet protection and fiber rolls; street sweeping; and removing dirt, debris, and materials from the site at the completion of the project

2.07 3-Ton Heat Pumps. The contract price paid for the "3-Ton Heat Pump" encompasses comprehensive compensation for all required installation tasks as specified in the Technical Specifications and depicted on the plans. This includes but is not limited to, the mounting of the heat pump unit, connection to the necessary electrical, insulation, and ensuring optimal functionality as outlined in the project documentation. Each installation of the 3-Ton Heat Pump will be assessed individually for compensation purposes. Progress payments will be determined based on the quantity of 3-Ton Heat Pumps successfully installed, ensuring fair compensation for the completed work at each stage of the project.

2.08 3-Furnaces, 3-Condensing Units & Exhaust Fan. The contract price paid for the " Furnaces, 3-Condensing Units & Exhaust Fan" encompasses comprehensive compensation for all required installation tasks as specified in the Technical Specifications and depicted on the plans. This includes but is not limited to, the mounting of the furnace units, condensing units and exhaust fan, connection to the necessary electrical, insulation, and ensuring optimal functionality as outlined in the project documentation. Each installation will be assessed individually for compensation purposes. Progress payments will be determined based on the quantity of units successfully installed, ensuring fair compensation for the completed work at each stage of the project.

The contractor shall install three high-efficiency gas Carrier furnaces, three air-cooled Carrier condensing units, and a Fantech exhaust fan or approved equal. This entails ensuring proper placement, compatibility with existing infrastructure, and adherence to safety and regulatory standards. The contractor will oversee mounting, connection of refrigerant lines, and electrical setup. Additionally, they are responsible for conducting thorough testing and cleanup post-installation.

2.09 Exterior Wall Siding (13’ Tall) & Insulation. The contracted work involves installing 13-foot-tall exterior wall siding and insulation using premium materials like weather-resistant siding and rigid foam

insulation. Attention will be given to precise alignment and sealing to prevent moisture penetration and optimize energy conservation. The process begins with thorough preparation, including structural assessment and removal of previous materials. Installation should follows to City guidelines and regulations. Cleanup and documentation, covering warranties and permits (By EPA), will be thoroughly managed. Safety, coordination, and quality assurance should be prioritized to ensure a resilient and visually appealing result.

Exterior Wall Siding (13' Tall) & Insulation will be paid by linear foot. Progress payments will be paid based on the linear feet complete in place.

2.10 Replace Exterior Windows. The contract price paid for "Replace Exterior Windows" includes full compensation for furnishing windows, required by the Engineer, specified in the Technical Specifications. Install energy-efficient exterior windows using quality materials and ensure proper fitting to minimize air leakage and maximize insulation. Apply weatherstripping and caulking for additional energy savings.

Furnishing exterior windows will be paid for by each. Progress payments for replacement windows will be paid based on the number of windows installed.

2.11 Long Awning (4' wide). The contract price paid for "Long Awning (4' wide)" includes full compensation for furnishing Awnings, required by the Engineer, specified in the Technical Specifications.

Install 4-foot-wide awning made of durable, weather-resistant fabric like acrylic, with a sturdy metal frame capable of supporting additional features such as lights or valances. It should come in various colors and patterns to match building aesthetics and be mounted securely to the wall using provided hardware. Maintenance instructions should also be provided, ensuring the awning remains in good condition.

Payment for furnishing and installing awnings will be calculated per linear foot, while progress payments for awning installation will be based on the linear footage installed

2.12 Remodel Women's & Men's Bathrooms - ADA Compliant (Building A&B).
The contract price paid for "Remodel Women's & Men's Bathrooms - ADA Compliant (Building A&B)" shall be paid by LUMP SUM. Payments for the lump sum item shall be determined based on the percentage of the bid item work completed as determined by the Engineer at the time the progress payment is prepared.

The contract price paid for "Remodel Women's & Men's Bathrooms - ADA Compliant (Building A&B)" shall include full compensation for performing the scope of work specified in the "General Requirements" Technical Specifications Section 101, including full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved for preparation of construction, associated and incidental field work, and no additional compensation will be allowed.

Construction and remodeling an ADA-compliant bathrooms involves planning to guarantee accessibility and usability for individuals with disabilities. Key considerations include layout and dimensions, fixture selection, materials and finishes, lighting, accessibility features, compliance with regulations, contractor selection, and testing for functionality. Adherence to ADA guidelines and local building codes is necessary throughout the remodeling process.

2.13 Exterior Lighting & Emergency Lighting. The contract price paid for "Exterior Lighting & Emergency Lighting." shall be paid by LUMP SUM. Payments for the lump sum item shall be determined based on the percentage of the bid item work completed as determined by the Engineer at the time the progress payment is prepared.

The contract price paid for "Exterior Lighting & Emergency Lighting" shall include full compensation for performing the scope of work specified in the "General Requirements" Technical Specifications section 101, including full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved for preparation of installation, associated and incidental field work, and no additional compensation will be allowed.

2.14 Upgrade Interview Room to ADA Compliant. The contract price paid for "Upgrade Interview Room to ADA Compliant" shall be paid by LUMP SUM. Payments for the lump sum item shall be determined based on the percentage of the percentage work completed as determined by the Engineer at the time the progress payment is prepared.
Upgrade Interview Room to ADA Compliant shall include full compensation for performing the scope of work specified in the "General Requirements" Technical Specifications section 101, including full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved for preparation of construction, associated and incidental field work, and no additional compensation will be allowed.

2.15 New Exterior & Interior Doors. The contract price paid for "New Exterior & Interior Doors" includes full compensation for required and necessary concrete doors work specified in the Technical Specification, shown of the plans, and Caltrans Standard details, including framing, hardware installation, and painting.

Door installation will be paid by each. Progress payments will be paid based on the Doors installed in place.

2.16 New Ceiling and New Lament Flooring. The contract price for "New Ceiling and New Lament Flooring" includes full compensation for the required and necessary work as specified in this Technical Specifications, including removing, disposing, and the installation of new celling and lament flooring and conforming to existing conditions.

New Ceiling and New Lament Flooring will be paid by square foot. Progress payments will be paid based on the square feet on concrete sidewalk complete in place.

2.17 Exterior Iron Railing Painting. The contract price shall be measured and paid on a per linear foot basis as determined on the actual length of work completed.

The contract price includes, but is not limited to, the removal and sanding off of old paint, thorough cleaning, and the application of several coats of exterior paint. No further compensation will be allowed.

2.18 Interior Painting. The contract price paid for "Interior Painting" shall be paid by lump sum. Payments for the lump sum item shall be determined based on the percentage of the percentage work completed as determined by the Engineer at the time the progress payment is prepared.

Interior Painting shall include full compensation for performing the scope of work specified in the "General Requirements" Technical Specifications section 101, including full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for doing all the work involved for preparation of construction, associated and incidental field work, and no additional compensation will be allowed.

2.19 4' Tall Metal Fence Extension & Paint. The contract price shall be measured and paid on a per linear foot basis as determined on the actual length of work completed.

The contract price includes, but is not limited to, 4' metal fence extension, the removal and sanding off of old paint, thorough cleaning, and the application of several coats of exterior paint. No further compensation will be allowed.

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SECTION 101

GENERAL REQUIREMENTS

PART 1 - GENERAL

1.1 GENERAL

All work shall conform to the applicable provisions of the San Mateo County Standard Specifications and Details, the latest State of California, California Manual on Uniform Traffic Control Devices (MUTCD), Department of Transportation, Standard Plans and Standard Specifications, and the project plans and specifications.

No work shall be performed on Saturdays and Sundays for the duration of this project unless a variance is approved by the City.

Implementation of Construction Best Management Practices (BMPs) will be required for this project.

1.2 WORK ON PALO ALTO PARK MUTUAL WATER COMPANY'S WATER FACILITIES

Work on the Palo Alto Park Mutual Water Company water facilities shall conform to the requirements in the Palo Alto Park Water Company, Standard Specifications & Details for Water Main Installation.

1.3 PROJECT SITE MAINTENANCE

Throughout all phases of construction until final acceptance, including any periods of work suspension, the site shall be kept clean and free from rubbish and debris. The Contractor shall furnish and operate a self-loading motor sweeper at least once at the end of each shift for the entire project limits for the purpose of keeping paved areas acceptably.

Dust control shall consist of applying either water or dust palliative, or both, for the alleviation or prevention of dust nuisance. Dust resulting from the Contractor's performance of the work, either inside or outside the right of way, shall be controlled by the Contractor in conformance with the provisions in Section 7, "Legal Relations and Responsibility to the Public" of the State Standard Specifications. Water shall be applied as provided in Section 17 "Clearing and Grubbing" and dust palliative shall conform to and be applied as provided in Section 18 "Dust Palliative" of the State Standard Specifications.

Excess excavated materials from any source shall be removed from the site immediately. Forms and lumber shall be removed the day of form removal. Materials and equipment shall be removed from the site as soon as they are no longer necessary.

Before the final inspection, the site shall be cleared of equipment, unused materials, and debris so as to present a satisfactory clean and neat appearance. In the event that the Contractor fails to perform this final cleanup, the Agency may remove and/or dispose of the articles or materials at the Contractor's expense. Care shall be taken to prevent spillage on haul routes. Any such spillage shall be removed immediately and the area cleaned.

The Contractor is advised that the disposal of solid waste sewage, industrial waste or other polluted waters into public storm drain system is prohibited under East of Palo Alto Municipal Code and under California State Fish & Game Code Section 5650. Any fines or penalties levied against the Contractor for violation of the above and related regulation are the sole responsibility of the Contractor.

1.4 SANITARY FACILITIES

The Contractor shall provide and maintain enclosed, portable restrooms for the use of personnel engaged in the work. These accommodations shall be maintained in a neat and sanitary condition, and shall comply with all applicable laws, ordinances, and regulations pertaining to public health and sanitation. All toilets shall be removed from the right of way at the end of each shift unless the located in the staging area described below.

1.5 STAGING & STORING

The Contractor shall store all equipment and materials in a manner which does not interfere with public right of way. When not actively working in the right-of-way, Contractor shall not park equipment or vehicles or store materials in the public right of way, unless authorized by the Engineer in writing.

Contractor shall install a six-foot high temporary chain link fence with green mesh screening material so the area inside the fence is not visible to the public. No fencing shall be installed within 10 feet of the fire hydrant. Contractor is required to post no-parking signs in advance of utilizing the area, as described elsewhere in the specifications.

Contractor may make arrangements with local property owners for temporary staging areas; however, the location shall first be brought to the attention of the Engineer for approval. Contractor will also be required to provide proof in writing from the property owner that the Property is allowed for use as a temporary staging area.

Contractor shall take adequate measures to secure all equipment and materials at the staging area after the completion of work each day. The City will not be responsible for any damage or loss incurred on Contractor's equipment or materials.

1.6 PROTECTION AND RESTORATION OF EXISTING IMPROVEMENTS

The Contractor shall be responsible for the protection of public and private property adjacent to the work and shall exercise due caution to avoid damage to such property.

The Contractor shall repair or replace all existing improvements within the right-of-way or on adjacent private property which are not designated for removal, but that are damaged or removed as a result of its operations. Repairs and replacements shall be at least better than the existing improvements and shall match them in finish and dimension to the satisfaction of the Engineer.

1.7 PRE-CONSTRUCTION DOCUMENTATION

Contractor shall submit a video on DVD of the construction area prior to beginning work. This video shall be the existing condition record of the job site. The taping shall be done by the Contractor and a copy of the DVD shall be furnished to the Project Inspector at the beginning of the Work. The Project Inspector may participate during the videotaping task. Contractor shall provide a written log noting defects or irregularities in the existing pavement area.

1.8 PUBLIC NOTIFICATION AND OUTREACH

Two weeks prior to beginning any work on the project, the Contractor shall deliver written notice to all adjoining residents, businesses, tenants and other applicable parties. Notice shall be given for general construction activity in an area as well as specific activities that will, in anyway, inconvenience residents/property owners/tenants or affect their operations or access to their property. Such notices shall include the expected date for start of construction, a general description of the construction activity to take place, expected duration, and the name, address,

and contact number of the Contractor's superintendent and of the City's Project Engineer.

A follow up notice shall be distributed two days prior to the construction activity. Copies of all notices shall be provided to the Engineer for approval five working days prior to the desired distribution date.

The Contractor shall contact and coordinate the work with the following, but not limited to, parties. Two-week notification shall also be given to adjacent properties prior to beginning any work.

1.9 COORDINATION WITH OTHER PROJECTS

Contractor shall coordinate its operations with the other projects to avoid conflicts between projects.

The East Palo Alto Sanitary District, PG&E gas, and AT&T have and will have projects within the project limits.

1.10 TESTING AND SAMPLING

A. Any Sampling & testing shall be in conformance with Section 39 of the State Standard Specifications.

B. Testing shall be undertaken by **an independent, third party, testing laboratory/contractor** qualified to perform sampling and testing required by this contract. Selection of testing laboratory/contractor shall be approved by the Engineer. Sampling and Testing shall be paid for by the Contractor.

C. Testing results shall be provided showing actual results and include a statement that the item tested or analyzed conforms or fails to conform to specified requirements. Test results shall cite applicable specification references and required tests or analytical procedures used. Test results shall be certified by a testing laboratory representative authorized to do so. Report shall have the cover sheet conspicuously stamped in large red letters “CONFORMS” or “DOES NOT CONFORM”. If the item(s) fails to conform, the laboratory shall notify the Engineer.

Sampling and testing results shall be submitted daily, within 24 hours of test taking. Tests that require more than 24 hours for processing shall be submitted within 24 hours of completion of test.

Submittal of results 24 hours beyond the completion of lab work shall be subject to $250 penalty per late submittal.

Complete all required testing identified in Section 39 of the State Standard Specifications.

TREE AND ROOT PROTECTION

Due care shall be taken when working near trees (if any), public or private. For all phases of the work, Contractor is responsible for protecting trees and Contractor will replace any trees judged damaged by the City, unless otherwise noted on the Plans.

Trees situated in a tree well or sidewalk planting strip shall be wrapped with 4 layers of orange plastic fencing as padding from the ground to the first branch with 1-inch-thick wooden slats bound securely on the outside. During installation of the wood slats, caution shall be used to avoid damaging any bark or branches. Major scaffold limbs may also require protection as directed by the Engineer to a height of 12 feet above the ground. Contractor shall make every effort to keep deleterious materials associated with project construction from contacting any part of the trees.

Contractor shall make every effort to avoid damaging any City owned property, including (roots, trunk and canopy of) City maintained trees. If damages to trees are found to be as part of Contractor negligence, Contractor shall be responsible for as follows:

a. Contractor will provide full reparation to include: removal of irreparable tree and replacement with similar approved species. Contractor will perform this work themselves (at Contractor's expense) under supervision of City forestry personnel, and/or,
b. Contractor will reimburse City for City expenses incurred in the related reparation work, consisting of but not limited to, site inspections, corrective pruning, tree removal, and tree replacement.
c. Damages shall be graded 1 (minor) through 5 (replacement), as determined by City, with monetary values attached.

1.11 SITE CLEANUP

Payment for work required under the General Requirements shall be included in the prices bid for the individual items of work and no additional compensation will be allowed therefore unless specifically noted otherwise.

In the event that the Contractor fails to perform this final cleanup, the Agency may remove and/or dispose of the articles or materials at the Contractor's expense.

Care shall be taken to prevent spillage on haul routes. Any such spillage shall be removed immediately, and the area cleaned.

The Contractor is advised that the disposal of solid waste sewage, industrial waste or other polluted waters into public storm drain system is prohibited under East of Palo Alto Municipal Code and under California State Fish & Game Code Section 5650. Any fines or penalties levied against the Contractor for violation of the above and related regulation are the sole responsibility of the Contractor.

1.12 PROTECTION AND RESTORATION OF EXISTING IMPROVEMENTS

The Contractor shall be responsible for the protection of public and private property adjacent to the work and shall exercise due caution to avoid damage to such property.

Since proposed improvements have conflicts with existing underground utility facilities owned by PG&E, Palo Alto Park Mutual Water Company, AT&T and other owners, the Contractor shall coordinate and communicate with these utility owners prior to and during construction regarding these conflicts.

The Contractor shall repair or replace all existing improvements within the right-of-way or on adjacent private property which are not designated for removal or adjustment, but that are damaged or removed as a result of its operations. Repairs and replacements shall be at least equal to existing improvements and shall match them in finish and dimension.

1.13 CALL UNDERGROUND SERVICE ALERT PRIOR TO EXCAVATING, POTHOLING OR OTHER EARTH DISTURBING ACTIVITIES

Contractor, except in an emergency, shall contact the appropriate regional notification center, Northern California Underground Service Alert at 811 or 1-800-227-2600 or on-line at www.digalert.org at least five working days prior to commencing any excavation and obtain an inquiry identification number from that notification center. No excavation shall be commenced or carried out by the Contractor unless such an inquiry identification number has been assigned to

the Contractor or any subcontractor of the Contractor and the City has been given the identification number by the Contractor.

1.14 EXISTING MONUMENTS AND BENCHMARKS

All monumental benchmarks, land corners, and triangulation points (if any), established by other surveys, existing within the construction area shall be preserved. If existing monuments interfere with the work, secure written permission before removing them.

1.15 ORDER OF WORK

Work Sequence and Specific Considerations shall include but shall not be limited to the following provisions (i.e., although these requirements are not restated under each individual bid item, they shall be deemed included under each bid item as applicable at no additional cost). The following is a list of general sequences and special considerations for the project:

Contractor shall not mobilize for any other work unless described below or authorized by the Engineer in writing, until 30 working days after all Utility Potholing-Design information described above and the Technical Specifications is provided to the Engineer.

Contractor may establish the staging area; reconstruct fences and/or gates; remove trees concurrently with Utility Potholing – Design work.

1.16 REFERENCES

All references to 'City' in any of the contract documents or referenced standards or publications shall mean the City of East Palo Alto.

All references to 'Engineer' in any of the contract documents or referenced standards or publications shall be the designated representative of the City of East Palo Alto.

1.17 MEASUREMENT AND PAYMENT

Payment for work required under the General Requirements shall be included in the prices bid for the individual items of work and no additional compensation will be allowed therefore unless specifically noted otherwise.

1.18 PROGRESS SCHEDULE (CRITICAL PATH METHOD)

Contractor shall perform the worked required by Caltrans Standard Specifications 8-1.02A, “Schedule.”

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SECTION 102

MOBILIZATION

PART 1 – GENERAL

Mobilization shall consist of preparatory work and operations, including, but not limited to, those necessary for the movement of personnel, equipment, supplies, and incidentals to the project site, and implementation of environmental commitments described on Local Assistance NEPA Permits & Environmental Commitment Record in Appendix C of these Specifications, and for all other work and operations which must be performed or for costs incurred prior to beginning work and in the course of work on various contract items at the project site.

The Contractor is advised that there may be insufficient area within the construction zone to provide parking, staging for material, and storage of equipment.

PART 2 – MATERIAL AND EQUIPMENT

(None)

PART 3 – EXECUTION

(None)

PART 4 – MEASUREMENT AND PAYMENT

Included in Section 100 of these Technical Specifications.

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SECTION 103

TRAFFIC CONTROL

PART 1 – GENERAL

Work shall consist of providing for safe movement of vehicular, bicycle and pedestrian traffic, including persons with disabilities in accordance with the Americans with Disabilities Act (ADA), and traffic control, and construction and equipment staging as described on Local Assistance NEPA Permits and Environmental Commitment Record in Appendix C of these Specifications, through and around construction operations. Traffic control requirements set forth herein are the minimum requirements imposed. The Contractor shall be solely responsible for providing all protective measures necessary.

Should the Contractor fail, in the opinion of the Engineer, to provide all the materials, work force and equipment necessary to maintain traffic around the work area as set forth herein, the City, upon the recommendations of the Engineer, may take steps necessary to suspend the work. The City may then upon such suspension, perform such work as may be necessary to maintain traffic and charge all associated costs to the Contractor.

Work shall also include submitting a traffic control, construction (equipment and material) staging, and construction phasing plans prepared for each phase of construction for review.

1.02 REFERENCES

The Contractor shall comply with the latest edition of the “Work Area Traffic Control Handbook” published by Building News Inc.; the “California Manual of Uniform Traffic Control Devices (CA MUTCD), Part 6, “Temporary Traffic Control”, hereinafter referred to as the Traffic Control Manual; and the State Standard Plans and Specifications, California Department of Transportation, latest edition, for items related to traffic control within the work area.

1.03 SUBMITTALS

A. TRAFFIC CONTROL PLAN

At least 15 working days prior to start of work, the Contractor shall submit a traffic control plan describing how traffic control will be achieved during the life of the project, prepared by a traffic engineer or registered civil engineer for approval prior to commencing work. The plans shall be in accordance with the Standard Plans and Specifications and the CA MUTCD on scaled drawings showing required signs, traffic control devices and flaggers for each situation anticipated to be encountered, i.e., intersections, mid-block, etc. both during working and non-working hours.

The traffic control plan shall provide a detailed approach for controlling traffic through the construction zone and for any proposed detours. The traffic control plan shall designate truck routes, where all vehicles exceeding 12,000 pounds gross weight hauling materials to or from the job site shall follow the established truck route streets to the closest point of the job site. The traffic control plan shall also be directed to the regulation and protection of pedestrian traffic including pedestrians, bicyclists, joggers, skaters, skateboarders, etc.

Once approved, the Contractor may modify the Traffic Control Plan only with permission from the Engineer.

CONSTRUCTION (EQUIPMENT AND MATERIAL) STAGING / FACILITIES

Staging of equipment and material shall be proposed and secured by the Contractor and approved

by the Engineer. Contractor may not occupy any property outside of the right-of-way as shown on the plans.

At least 15 working days prior to start of work, the Contractor shall submit a construction (equipment) staging plan for approval prior to commencing work.

B. CONSTRUCTION PHASING PLAN

At least 15 working days prior to start of work, the Contractor shall submit a construction phasing plan for approval prior to commencing work. The plans shall be in accordance with the Standard Plans and Specifications and the CA MUTCD on scaled drawings showing required signs, traffic control devices and flaggers for each situation anticipated to be encountered during working and non-working hours.

The construction phasing plan shall provide a detailed approach for controlling traffic through the construction zone for each stage or portion of the work. It shall show traffic control devices and signage necessary for phased construction or modifications to existing lane configurations.

Once approved, the Contractor may modify the Construction Phasing Plan only with permission from the Engineer.

Construction phasing plan shall be limited to not more than one block and one side of the road at a time or not more than 1000 feet and one side of the road at a time in order to minimize pedestrian traffic interruption. Contractor shall also practice same measures for concrete work associated to sidewalk construction.

PART 2 – MATERIAL AND EQUIPMENT

2.01 TRAFFIC CONTROL DEVICES

Traffic control devices shall conform to the CA MUTCD. Temporary warning signs in the construction area shall have a black legend and border on an orange background. The color of other signs shall follow the standard for all highway signs.

Cones and delineators shall consist of cylindrical or cone shaped plastic devices, 18 inches to 48 inches in height. Cones or delineators shall have a flexible base of suitable weight, which will ensure stability.

Barricades shall be Type I, Type II or Type III as set forth in the Standard Plans and Specifications, and the CA MUTCD. Barricades used during hours of darkness shall be equipped with flashers.

Traffic control devices shall include a minimum of two (2) “Expect Delays” portable changeable message signs (CMS), to be placed at locations approved by the Engineer at least 7 days before the state of construction.

PART 3 – EXECUTION

3.01 PLACEMENT, MAINTENANCE AND REMOVAL OF TRAFFIC CONTROL DEVICES

Proper traffic movement through the work area depends upon the driver controlling and directing his/her vehicle properly under unexpected situations. The Contractor shall advise the public of such conditions through the use of signs, flaggers, pavement markings, barricades, lights, cones and delineators.

Whenever construction operations obstruct the flow of vehicular or pedestrian traffic or present a hazard to vehicles or pedestrians in the vicinity of construction operations, the Contractor shall take

appropriate action to warn, detour, protect and separate drivers and pedestrians from the work area and to direct them to alternate routes.

No one standard sequence of signs or control devices will suit all conditions, which may result from construction operations. Even for the same work the conditions may vary from hour to hour, requiring adjustment and revision of the traffic control program in effect. It is the Contractor's responsibility to adjust his /her traffic control based on the location and situation of the street.

No work may begin at any location until traffic control devices have been placed and if required, adjusted, and revised.

The Contractor shall furnish, install, maintain, and remove at his expense all barricades, signs, lights, or other devices in sufficient quantities necessary to adequately warn of any obstructions to the vehicular or pedestrian travel way. Flaggers shall be provided as necessary for the safety of pedestrians and vehicular traffic and to provide access to properties adjacent to the work.

The provisions in this section will not relieve the Contractor from his responsibility to provide such additional devices or take such measures as may be necessary to comply with the provisions of Section 7-1.04, "Public Safety", of the State Standard Specifications. If any component in the traffic control system is displaced or ceases to operate or function as intended, the Contractor shall immediately repair or replace the component and restore it to its original location.

At the end of each workday, the Contractor shall remove all components of the traffic control system, except portable delineators placed along a pavement elevation differential, or as required by the Engineer.

Construction area signs shall be furnished, installed, and maintained by the Contractor. The term "Construction Area Signs" shall also include temporary object markers and portable delineators required for the direction of public traffic through or around the work area during construction. After construction area signs are no longer required, they shall be removed.

3.02 COORDINATION WITH OTHERS

It is the responsibility of the Contractor to install and coordinate the traffic control plan with other contractors and utility companies working on adjacent roadways, businesses, and homes to avoid delays and conflicts to other projects (if any) and this project.

It is the responsibility of the Contractor to coordinate any and all communications with impacted utility companies prior and during construction.

3.03 LIMITATION ON WORKING HOURS

Contractor shall only implement traffic control and restrictions within the area that is estimated to be between 8:00 AM to 5:00 P.M, unless otherwise indicated or authorized by the Engineer. If night work is necessary, Contractor shall submit a request in writing to the Engineer at least two weeks in advance. Written request must highlight closest intersections that need to be on flashing red, start and end time of flashing red and dates. Notify the residents and businesses at least 48 hours prior to any construction during nighttime if approved by the Engineer. No extra pay or premium pay will be allowed for night work.

3.04 ACCESS TO PRIVATE PROPERTY

When construction work occurs within the City's right-of-way, provisions shall be made for the safe passage of vehicular and pedestrian traffic around the work area at all times.

Access to private residences and businesses shall be maintained at all times. ***When private driveways and entrances must be blocked for the work, Contractor shall make every effort to minimize the time it takes to complete such work, and shall notify the occupants/business owners and the City of the required access closures in accordance with Section 7-1.03 of the State Standard Specifications.***

Before obstructing any private driveway entrance on public streets with equipment or other barriers, for any prolonged period, the Contractor shall notify the occupants of the property to allow for the removal of vehicles in accordance with the Section 3.10, "Parking Restrictions".

Contractor shall provide and maintain pedestrian access to and from the property with blocked access. During non-working hours, no driveway, house, or parking lot shall be denied access to a public roadway.

3.05 ROAD CLOSURES AND DETOURS

The contractor is required to keep one lane open in each direction of travel, at all times during construction except at Full-Depth Reclamation segment of roadway. ***The Contractor will be required to show how this requirement will be adhered to and implemented in the Construction Phasing and Traffic Control Plans required under Section 12-4 "Maintaining Traffic" of the State Standard Specifications.***

Street closures will not be permitted.

The Contractor shall establish and maintain detours where applicable and conduct his construction operations in such a manner so as to minimize the hazard, inconvenience and disruption to the public. The Contractor shall direct and detour traffic through, around and adjacent to construction operations, as specified herein or in accordance with approved traffic control plans.

3.06 EMERGENCY VEHICLE ACCESS THROUGH DETOURS

During all detours the Contractor shall provide for the movement of emergency vehicles through the work area. When temporary traffic control is provided by flaggers they shall be instructed to give immediate passage to emergency vehicles that have activated their lights or sirens.

3.07 FLAGGERS

The Contractor shall employ flaggers as required for each specific detour and at all locations on the construction site where barricades and warning signs cannot control the movement of traffic. Where flaggers are required, they shall be logically placed in relation to the equipment or operation so as to give adequate warning and shall be placed in accordance with the Contract Documents, the CA MUTCD, and the approved Traffic Control Plan.

Flaggers shall utilize high-visibility, reflective safety apparel and hand-paddle signs at all times. Provide flaggers with two-way radios for communication when necessary. Red flags shall only be used for traffic control in emergency situations.

The Contractor shall pay fully the cost of furnishing all flaggers, including transporting flaggers, to provide for passage of public traffic.

3.08 NOTICE TO AGENCIES

The Contractor shall be responsible for keeping all affected agencies, businesses and residents informed of restrictions or limitations to either public or private roads caused by his operations, including but not limited to the City Police and Fire Departments, US Postal Service, Transit

Services and Garbage Companies.

3.09 TRAFFIC CONTROL DURING NON-WORKING DAYS AND HOURS

The full width on the traveled way shall be open for public use on non-working days and hours, which are to be defined as Saturdays, Sundays, designated City holidays, after 3:00 p.m. on Fridays, the day preceding designated legal holidays, and when construction operations are not actively in progress.

The Contractor shall not be permitted to maintain any lane or road closure during non-working days and hours without first obtaining written approval of the Engineer. As necessary, the Contractor shall restore travel lanes to their original alignment and configuration by means of backfilling and placing temporary pavement or bridging with steel plates.

The fact that rain or other causes may force suspension or delay of the work shall not relieve the Contractor of his responsibility for maintaining traffic around the project and providing access as specified herein. The Contractor shall at all times keep on the job such materials and equipment as may be necessary to keep streets and driveways within the project area open to traffic and in good repair.

The work site shall be cleaned each day, to the satisfaction of the Engineer. Daily traffic control shall continue to remain in place until cleanup activities have been satisfactorily completed and the Contractor's equipment has been removed from the traveled way.

3.10 PARKING RESTRICTIONS

Contractor shall furnish and distribute written notices to area residents and businesses in accordance with Section 7-1.03 "Public Convenience" of the State Standard Specifications.

The Contractor shall furnish and install "No Parking, Tow-Away" signs on the front and back of Type II barricade at least 72-hours prior to starting construction work in that area. Barricades shall be placed at distances along the roadway of no greater than 100-feet.

Should the construction work not occur on the specified day, new "No Parking – Tow Away" signs shall be posted by the Contractor indicating a revised date. The Contractor may schedule work for the following working day, however, the "No Parking, Tow-Away" signs must be dated and re-posted 72-hours in advance for the restriction to be enforceable.

PART 4 – MEASUREMENT AND PAYMENT

Included in Section 100 of these Technical Specifications.

END OF SECTION 103

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SECTION 104

STORMWATER POLLUTION PREVENTION

PART 1 – GENERAL

A. Prohibit illicit discharge (non-rainwater) into the storm drain system.
B. Construct any and all necessary systems to eliminate contaminants from entering the storm water system.
C. Clean up and control of work site materials, spoils and debris.
D. Removal of contaminants produced by the project.
E. The work shall include the provision of all labor, materials, equipment and apparatus not specifically mentioned herein or noted on the plans, but which are incidental and necessary to complete the work specified.

1.02 APPLICABLE PUBLICATIONS

National Pollution Discharge Elimination system (NPDES) Permit No. CAS612008 – latest version

California Storm Water Best Management Practice Handbooks:
1. Municipal
2. Industrial/Commercial
3. Construction Activity

C.3 Stormwater Technical Guidance Ver 5.0, June 2016 or the latest version.

California State Water Resources Control Board, Construction General Permit CAS000002 Order No. 2010-0014 DWQ (for sites greater than one acre).

Section 13 “Water Pollution Control” of the State Standard Specifications.

1.03 QUALITY ASSURANCE

The Contractor shall designate an individual (to be approved by the City) available at all times of sufficient authority to halt work and implement BMPs and source control measures for the Contractor and all sub-contractors, suppliers, and other personnel that may be at the construction site(s), to prevent non-stormwater discharges from the construction site(s). This individual shall be the contact person for all matters of the project regarding non-stormwater discharges.

All work performed under this contract and all contractors and their associates and/or employees are required to comply with all applicable storm water regulations and to implement Best Management Practices (BMP’s) at all times.

All employees and subcontractors shall be trained on the storm water pollution prevention requirements contained in these specifications. Training records shall be submitted to the City along with requests for progress payment.

A supply of spill clean-up materials such as rags or absorbents shall be kept readily accessible on-site.

1.04 ALLOWABLE DISCHARGES

Under current NPDES regulations, the following discharges to the storm drainage system are permitted, as long as the discharges are not significant pollutants:
1. Diverted stream flows, springs and natural drainage courses;

2. Rising flood waters;
3. Air conditioning condensation; and
4. Landscape irrigation.

Groundwater from dewatering and foundation drains will need additional certification that the groundwater has been tested or evaluated for the presence of pollutants subject to non-stormwater discharge regulations. In such a case, a Special Sewer Discharge Permit shall be required for the water to be discharged to the Sanitary Sewer System, as directed.

1.05 SUBMITTALS

The Contractor shall develop and implement a Water Pollution Control Plan (WPCP) which shall contain at a minimum the items included in this section. The WPCP shall show the locations of all storm drains, storm drain pipes, points of entry (catch basins, inlets, outlets), and other features through which stormwater flows. The WPCP shall include a protocol for allowing drainage to flow properly during rainfall events while still preventing non-stormwater discharges from entering the storm drains, creeks, and Bay. Work shall not begin without the Engineer completing its review and finding no exceptions taken on the WPCP and finding at Engineer's sole discretion that the WPCP meets the intent and goals of the project.

The WPCP shall include descriptions and sketches of all BMPs, show locations and describe protocols for implementing and maintaining the following BMPs for but not limited to material storage, dewatering operations, bypass pumping, saw-cutting operations, pavement operations, concrete operations, grading and excavation operations, spill prevention and control, vehicle and equipment cleaning, vehicle and equipment operation and maintenance, litter control, dust control, pavement cleaning, and construction waste management.

The WPCP shall be updated to meet changing stages of the construction site(s).

1.06 PENALTIES

The Contractor is responsible for penalties assessed or levied on the Contractor or the City as a result of his failure to comply with the provisions in this section including, but not limited to, compliance with the applicable provisions of the Manuals, and Federal, State, and local regulations and requirements as set forth therein. Penalties as used in this section shall include fines, penalties and damages, whether proposed, assessed, or levied against the Contractor or the County, including those levied under the Federal Clean Water Act and the State Water Quality Control Act, by governmental agencies or as a result of citizen suits. Penalties shall also include payments made or costs incurred in settlement for alleged violations of the Manuals, or applicable laws, regulations, or requirements. Costs incurred could include sums spent instead of penalties, in mitigation or to remediate or correct violations.

PART 2 – PRODUCTS

Materials used shall be in conformance with Caltrans's Construction Site Best Management Practices (BMPs) Manual, latest edition, or the CASQA Construction BMP Handbook, latest edition.

A supply of spill clean-up materials such as drip pans, rags, or absorbents shall be kept readily accessible on-site.

PART 3 – EXECUTION

3.1 RECYCLING

At the end of each working day, all scrap, debris and waste material shall be collected and materials disposed of properly.

Dry, empty paint cans/buckets, old brushes, rollers, rags and drop cloths shall be disposed of in approved waste collection.

Dumpsters shall be inspected for leaks. As leaks are detected, the trash hauling contractor shall be contacted to replace or repair dumpsters that leak.

Water from cleaning dumpsters shall not be discharged on-site.

Regular waste collection shall be arranged for before dumpsters overflow.

3.2 HAZARDOUS MATERIAL/WASTE MANAGEMENT/MATERIALS MANAGEMENT

Designated areas of the project site shall be proposed by the contractor for approval by the Engineer suitable for material delivery, storage and waste collection as far from catch basins, gutters, drainage courses and creeks as possible.

All hazardous materials such as pesticides, paints, thinners, solvents and fuels; and all hazardous wastes such as waste oil and antifreeze shall be labeled and stored in accordance with State and Federal regulations.

All hazardous materials and all hazardous wastes shall be stored in accordance with secondary containment regulations, and it is recommended that these materials and wastes be covered as needed, to avoid potential management of collected rain water as a hazardous waste.

The contractor shall dispose of all excess thinners, solvents, chemicals, oil-based and water-based paint as hazardous waste.

Regular hazardous waste collection shall be arranged for to comply with time limits on the storage of hazardous wastes.

Granular materials shall be stored a minimum of ten feet from the closest catch basin and curb return. The contractor shall not allow these granular materials to enter the storm drain or creek.

Warning signs shall be posted in areas containing or treated with chemicals.

An accurate up-to-date inventory, including Material Safety Data Sheets (MSDS) of hazardous wastes stored on site shall be kept and available to assist emergency response personnel in the event of a hazardous materials incident.

Maintenance and fueling of vehicles and equipment shall be performed in a designated, bermed area, or over a drip pan that will not allow run-off of spills. Vehicles and equipment shall be regularly checked and have leaks repaired promptly. Secondary containment, shall be used to catch leaks or spills any time that vehicle or equipment fluids are dispensed, changed or poured**.**

3.03 CHEMICAL USAGE

When rain is forecast within 24 hours, or during wet weather, the Engineer may prohibit the contractor from applying chemicals in outside areas.

Pesticides or fertilizers shall not be over-applied and material manufacturer’s instructions shall be followed regarding uses, protective equipment, ventilation, flammability and mixing of chemicals. Over-application of a pesticide constitutes a “label violation” subject to an enforcement action by the San Mateo County Agriculture Commissioner.

3.04 DUST CONTROL

Use means necessary to control dust on and near the work, and on and near off-site areas, if such dust is caused by the Contractor's operations during performance of the Work, or if resulting from the condition in which the Contractor leaves the site.

Thoroughly moisten surfaces as required to prevent dust being a nuisance to the public, neighbors, and personnel performing other work on the site.

Use dust palliatives or reclaimed water (not potable water).

Reclaimed water shall be used to control dust on a daily basis or as directed by the Engineer.

At the end of each working day, or as directed by the Engineer, the roadways and on-site paved areas shall be cleaned and swept of all materials attributed to or involved in the work. Streets shall not be washed down into a storm drain or creek in lieu of street sweeping. Water wash may be picked up by a vacuum unit in lieu of sweeping.

3.07 CONCRETE GROUT AND MORTAR WASTE MANAGEMENT

Concrete, grout and mortar shall be stored away from the drainage areas and ensure that these materials do not enter the storm drain system.

Concrete trucks shall not be washed out into streets, gutters, storm drains, drainage channels or creeks.

Concrete trucks and equipment shall be washed out off-site or in a designated area on-site where the water will flow onto dirt or into a temporary pit or bermed area. The water shall percolate into the soil and the hardened concrete placed in a waste container for disposal. If a suitable soil or bermed area is not available on-site, the wash water shall be collected and removed off-site and disposed of properly.

Water created by the washing of exposed aggregate concrete finish shall be collected in a suitable dirt area or filtered through straw bales or equivalent material before entering the storm drain system. Sweepings from exposed aggregate finish shall be collected and disposed of in a waste container or removed off-site and disposed of properly.

3.09 PAINTING

The cleaning of painting equipment and tools shall be performed in a designated area that will not enter the gutters, storm drains or creeks.

Excess paint shall be removed from brushes, rollers and equipment prior to cleanup.

Wash water from aqueous cleaning of water-based paint tools and equipment shall be disposed of in a sanitary sewer or onto a designated dirt area.

Paint thinners and solvents from oil-based paints shall be filtered and re-used when possible. Waste sludge, thinner and solvent from cleaning tools and equipment shall be disposed of as a hazardous waste**.**

3.10 SITE CLEANUP

The cleaning of equipment of materials shall not be performed on-site or in the street using soaps, solvents, degreasers, steam cleaning or equivalent methods.

All cleanup must be performed in a designated area that will not allow the cleaning rinse to flow off-site or into streets, gutters, storm drains, or creeks.

PART 4 – MEASUREMENT AND PAYMENT

Included in Section 100 of these Technical Specifications.

END OF SECTION 104

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SECTION 105

3-TON HEAT PUMPS

3-Ton Heat Pump - Bard Wall Mount Units or approved equal see table below. The payment for the contract covers all installation tasks outlined in these Technical Specifications and depicted on the plans. These tasks include mounting the heat pump unit, connecting it to the necessary electrical components, insulating, and ensuring optimal functionality as specified in the project documentation. Compensation for each 3-Ton Heat Pump installation will be assessed individually, and progress payments will be determined based on the successful installation. This approach ensures fair compensation for completed work at each project stage.

Police Department at 141 Demeter Street:

Unit #	Equipment Description	Make	Model #	Qty.	Filter Size
A/C #1	Bard Wall Mount Unit	Bard	WH361-AO5XX4XXX	1	16X30X1
A/C #2	Bard Wall Mount Unit	Bard	WH361-AO5XX4XXX	1	16X30X1
A/C #3	Bard Wall Mount Unit	Bard	WH361-AO5XX4XXX	1	16X30X1
A/C #4	Bard Wall Mount Unit	Bard	WH361-AO5XX4XXX	1	16X30X1
A/C #5	Bard Wall Mount Unit	Bard	WH361-AO5XX4XXX	1	16X30X1
A/C #6	Bard Wall Mount Unit	Bard	WH361-AO5XX4XXX	1	16X30X1
A/C #7	Bard Wall Mount Unit	Bard	WH361-AO5XX4XXX	1	16X30X1
A/C #8	Bard Wall Mount Unit	Bard	WH361-AO5XX4XXX	1	16X30X1
A/C #9	Bard Wall Mount Unit	Bard	WH361-AO5XX4XXX	1	14X25X1
A/C #10	Bard Wall Mount Unit	Bard	WH361-AO5XX4XXX	1	14X25X1

END OF SECTION 105

SECTION 106

3-FURNACES, 3-CONDENSING UNITS & EXHAUST FAN

The contractor is responsible for the installation of three high-efficiency gas Carrier furnaces, three air-cooled Carrier condensing units, and a Fantech exhaust fan or equivalent approved model. This involves careful attention to proper placement, ensuring compatibility with the existing infrastructure, and strict adherence to safety and regulatory standards throughout the installation process.

The contractor's duties encompass overseeing the mounting of equipment, ensuring the precise connection of refrigerant lines, and the meticulous setup of electrical components to ensure optimal performance. Furthermore, the contractor must conduct comprehensive testing procedures to verify the functionality and efficiency of all installed systems.

Post-installation, the contractor is also tasked with thorough cleanup activities to ensure the site is left in a tidy and safe condition. This comprehensive approach ensures that the installed systems operate efficiently and safely, meeting the client's requirements and industry standards.

Community Development at 1960 Tate Street:

Unit #	Equipment Description	Make	Model #	Qty.	Filter Size
A/H #1	Furnace	Carrier	58RAV115-20	1	20X20X1
A/H #2	Furnace	Carrier	58PAV111-18120	1	14X24X1
A/H #3	Furnace	Carrier	58RAV095-16	1	18X20X1
CU #1	Condensing Unit	Carrier	38CKC060371	1	NONE
CU #2	Condensing Unit	Carrier	38CKC060360	1	NONE
CU #3	Condensing Unit	Carrier	38CKC048371	1	NONE
Unit #4	Exhaust Fan	Fantech	FG8XL	1	NONE

END OF SECTION 106

SECTION 107

EXTERIOR WALL SIDING & INSULATION (13’ TALL)

PART 1 – GENERAL

The contracted task encompasses the installation of 13-foot-tall exterior wall siding and insulation, with high-quality materials such as weather-resistant siding and rigid foam insulation. Emphasis will be placed on detailed alignment and sealing to deter moisture infiltration and maximize energy efficiency.

1. MATERIALS

   a. Exterior Wall Siding: High-quality, weather-resistant siding material as per client's preference (e.g., vinyl, fiber cement, wood).
   b. Insulation: Rigid foam insulation with appropriate R-value for climate conditions.
   c. Windows: Energy-efficient windows, double panes, and durable frames (e.g., vinyl, fiberglass, aluminum-clad wood) suitable for the building's design and requirements.

2. PREPARATION

   a. Remove existing siding, insulation, and windows, ensuring proper disposal in accordance with local regulations.
   b. Inspect and repair any structural damage to the wall surfaces and framing before proceeding with installation.

3. Siding Installation

   a. Install the siding according to local building codes.
   b. Ensure proper alignment, leveling, and fastening of siding panels.
   c. Apply appropriate trim pieces and flashing to ensure weather resistance and aesthetic appeal.
   d. Seal all joints and penetrations to prevent moisture infiltration.

4. INSULATION INSTALLATION

   a. Install rigid foam insulation boards onto exterior wall surfaces, ensuring complete coverage and tight fitting.
   b. Seal all seams and edges with appropriate insulation tape or sealant to prevent thermal bridging and air leakage.
   c. Verify compliance with energy code requirements for insulation thickness.

5. WINDOW REPLACEMENT

   a. Remove existing windows carefully, minimizing damage to surrounding surfaces.
   b. Install new windows according to manufacturer instructions and local building codes.
   c. Ensure proper flashing and waterproofing around window openings to prevent water intrusion.
   d. Insulate window frames and gaps with low-expansion foam or insulation to improve energy efficiency and air sealing.
   e. Test windows for easy operation, proper sealing, and alignment. Official

6. CLEANUP AND FINISHING

a. Remove all construction debris and dispose responsibly.
b. Clean exterior surfaces of siding and windows to ensure a neat and polished appearance.
c. Perform final inspection to ensure compliance with specifications and City satisfaction.

7. DOCUMENTATION

Provide documentation including warranties for materials and workmanship, as well as any relevant building permits (By the City of EPA) and inspection reports.

8. SAFETY

Ensure compliance with safety regulations throughout the installation process.

9. TIMELINE AND COORDINATION

Develop a detailed schedule for the installation process, coordinating with stakeholders as necessary to minimize disruptions and ensure timely completion of the project.

10. QUALITY ASSURANCE

Conduct regular quality checks and inspections throughout the installation process to maintain high standards of workmanship and address any issues promptly.

END OF SECTION 107

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SECTION 108

REMODEL WOMEN'S & MEN'S BATHROOMS - ADA COMPLIANT (BUILDING A&B)

PART 1 – GENERAL

The contractor undertaking the remodeling for an ADA-compliant bathroom is required to adhere to a comprehensive set of guidelines. These guidelines are specifically designed to ensure that the final outcome meets the highest standards of accessibility and usability for individuals with disabilities. This entails following specific measurements and regulations also, considering factors such as layout, materials, fixtures, and functionality to create a space that is welcoming, practical, and inclusive.

1. OVERALL CONSTRUCTION CONSIDERATIONS

   Contractor must prioritize ADA compliance in bathroom remodeling by ensuring ample space for wheelchair maneuverability, using non-slip flooring, placing grab bars, and installing fixtures at accessible heights.

2. BATHROOM LAYOUT

   Contractor to provide a clear floor space of at least 30 inches by 48 inches for fixture approach, maintaining doorways at least 36 inches wide for wheelchair access, and keeping clearances of 16-18 inches on either side of the toilet and 30 inches in front of it. Additionally, include a sink with knee clearance of at least 27 inches high, 30 inches wide, and 11-25 inches deep, and ensure roll-in showers have a clear floor space of at least 30 inches by 60 inches. Install grab bars near the toilet and shower/tub area at heights between 33-36 inches above the floor.

3. FIXTURES

   For an accessible bathroom, install an ADA-compliant toilet with a seat height of 17-19 inches and adequate space for transfers. A wall-mounted or pedestal sink should feature lever-operated or sensor faucets. A roll-in shower with a handheld showerhead and reachable controls is recommended for ease of use from a seated position. Lastly, mirrors should be mounted no higher than 40 inches from the floor, ensuring clear space underneath for wheelchair access.

4. MATERIALS AND FINISHES

   Contractor to install materials that are durable and easy to clean and meet the ADA's slip resistance criteria. Additionally, finishes and colors should be chosen to provide clear contrast, which is particularly helpful for individuals with low vision, enhancing safety and usability.

5. LIGHTING

   Contractor to install lighting throughout the bathrooms, including task lighting at sink and shower areas, and install light switches at a height reachable from a seated position to enhance accessibility and convenience for all users.

6. ACCESSIBILITY FEATURES

   Contractor to ensure accessibility by incorporating lever handles on doors and faucets to facilitate ease of use, while also considering the installation of a shower seat or bench to accommodate individuals who may require seating during showering. Additionally, prioritize safety by including an emergency call system within easy reach in case assistance is needed, promoting independence and peace of mind for users with diverse needs.

7. SIGNAGE

   Install ADA-compliant signage to designate accessible features such as toilets, showers, and grab bars.

8. TESTING AND EVALUATION

   After completion, test the functionality and accessibility of the remodeled bathroom with individuals who have disabilities to identify any potential issues and make necessary adjustments.

END OF SECTION 108

SECTION 109

UPGRADE INTERVIEW ROOM TO ADA COMPLIANT

PART 1 – GENERAL

1. ASSESSMENT AND PLANNING

   The contractor should conduct a thorough assessment of the existing interview room layout, dimensions, and facilities, identifying areas that do not meet ADA standards and require modification. Subsequently, they should develop a plan for remodeling the interview room to ensure compliance with ADA guidelines.

2. ARCHITECTURAL MODIFICATIONS

   Expand doorways and pathways to facilitate wheelchair access, adjust the layout to allow for ample maneuverability space, install ramps or lifts as needed to remove entry barriers, and guarantee adequate clearance around furniture and equipment.

   Choose suitable flooring materials to ease wheelchair movement, install accessible furniture like chairs and tables designed for appropriate height and accessibility, ensure adequate lighting to aid individuals with visual impairments, and incorporate grab bars and handrails for support and stability where necessary.

3. TECHNOLOGICAL UPGRADES

   Upgrade audio and visual equipment to guarantee compatibility with assistive devices, ensure accessibility of communication systems like video conferencing for individuals with hearing impairments, and install accessible controls for lighting, temperature, and other room amenities to enhance inclusivity and usability for all.

4. SAFETY AND SECURITY MEASURES

   Ensure that all modifications adhere to fire safety codes and regulations, install emergency call buttons or communication devices for individuals needing assistance, and carefully assess security implications to prevent compromising the safety of occupants or law enforcement personnel.

5. DOCUMENTATION AND TRAINING

   Document all changes made to the interview room for future reference and compliance purposes, offer training to law enforcement personnel on the appropriate utilization of ADA-compliant facilities and equipment, and establish protocols for accommodating individuals with disabilities during interviews.

END OF SECTION 109

END OF TECHNICAL SPECIFICATIONS