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ITEM 9000-0007 – DESIGN AND CONSTRUCTION OF METAL RAILING

ITEM 9000-0008 – CHEEK WALL

ITEM 9000-0009 – CHAIN LINK FENCE, 4 FEET HIGH

ITEM 9000-0010 – CHAIN LINK FENCE, 6 FEET HIGH

ITEM 9000-0011 - WEIGHTED SEDIMENT FILTER TUBE, 20” DIAMETER

ITEM 9000-0012 - REMOVAL OF EXISTING STONE MASONRY WALL

ITEM 9000-0013 - REMOVAL AND RECONSTRUCTION OF EXISTING TIMBER DECKS AND STAIRS

ITEM 9000-0014 – REMOVAL AND RECONSTRUCTION OF EXISTING METAL LANDINGS AND STAIRS

ITEM 9000-XXXX – REMOVAL OF GARAGE

ITEM(s) Associated:

9000-0015 REMOVAL OF GARAGE, 6122 NASSAU ROAD

9000-0016 REMOVAL OF GARAGE, 6124 NASSAU ROAD

9000-0017 REMOVAL OF GARAGE, 6126 NASSAU ROAD

9000-0018 REMOVAL OF GARAGE, 6128 NASSAU ROAD

9000-0019 REMOVAL OF GARAGE, 6130 NASSAU ROAD

9000-0020 REMOVAL OF GARAGE, 6132 NASSAU ROAD

9000-0021 REMOVAL OF GARAGE, 6134 NASSAU ROAD

9000-0022 REMOVAL OF GARAGE, 6138 NASSAU ROAD

9000-0023 REMOVAL OF GARAGE, 6140 NASSAU ROAD

9000-0024 REMOVAL OF GARAGE, 6142 NASSAU ROAD

9000-0025 REMOVAL OF GARAGE, 6146 NASSAU ROAD

ITEM 9000-0026 – DESIGN AND CONSTRUCTION OF TEMPORARY EGRESS STAIRWAY

ITEM 9000-0027 – VIBRATION AND MOVEMENT MONITORING AND CONTROL PLAN

ITEM 9000-0028 – TEMPORARY STORAGE PODS

ITEM 9000-0029 – UNFORESEEN REPAIRS

ITEM 9000-0030 – 6’ WHITE VINYL FENCE

ITEM 9203-0101 – TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM

ITEM 9860-0001 – COMPOST SOCK INLET PROTECTION FOR PWD OPEN MOUTH INLET

ITEM 9901-2006 – REIMBURSEMENT OF PGW GAS MAIN RELOCATION

TITLE REFERENCES IN SPECIAL PROVISION TEXT (PPSP A00001)

The terms “Department” and “Local Project Sponsor” refer to the “City of Philadelphia, Department of Streets”.

The terms “District Executive” and “District Engineer” refer to the “Chief Engineer” or “Chief Engineer & Surveyor” of the City of Philadelphia, Department of Streets.

The terms “Engineer” and “Representative” refer to the “Chief Engineer” or “Chief Engineer & Surveyor” of the City of Philadelphia, Department of Streets.

The term “Secretary” refers to the “Commissioner” of the City of Philadelphia, Department of Streets.

ARCHITECTURAL SURFACE TREATMENT

I. DESCRIPTION – This work is providing and applying a special surface finish to the outside face of the retaining walls as indicated on the contract drawings. The surface finish includes the use of formliners and penetrating sealer stains to produce textured and colored concrete surfaces. Architectural surface treatment concrete is to have a maximum thickness of 1".

II. MATERIALS:

Products will be limited to the materials necessary for proper completion of the work as specified by the manufacturer of the formliner system and as approved by the Representative.

III. FORMLINERS:

Reusable, made of high-strength elastomeric materials, easily attachable to forms. Plastic or other non-durable forms are permitted. Provide removable formliners that do not cause deterioration of the surface or underlying concrete.

Patterns are to be random sizes with a total maximum relief as indicated. Maintain the required member structural thickness and concrete covers shown on the drawings.

Provide a pattern that appears natural and non-repeating. Place formliner such that seam lines or patch lines caused by two or more molds coming together will not be apparent when viewing the final product in place.

The surface finish involves the use of formliners and stains to produce textured and colored concrete surfaces with the appearance of the textured finishes as indicated below. Use the same architectural surface treatment pattern on all structures on the project, where indicated.

Color: grey

Texture: Provide one of the following to the concrete surfaces as indicated on the plans:

Architectural Polymers.
1220 Little Gap Rd, Palmerton, PA 18071
610-824-3322
Pattern: #943 Drystack (3/4" max. relief)

Custom Rock Formliner
2020 West 7th Street, St. Paul, MN 55116
800-637-2447
Pattern 2014 Bearpath Coursed Stone (1" max. relief)

Fitzgerald Formliners
1500 E. Chestnut Ave., Santa Ana, CA 92701
1800-547-7760
Pattern: #17008 Brayman Drystack (3/4" max relief)

Or approved equal.

Release Agent –
Compatible with formliners and with color stain system to be applied to surface.

Color Stain –
Special Penetrating Stain mix as provided by manufacturer, in colors to achieve full natural stone variation. The penetrating water-borne penetrating stain mix is to have the following properties:

1. Breathable (allow water vapor transmission).
2. Achieves color variations present in the natural fieldstone.
3. Will be resistant to deterioration due to moisture/water, acid, alkali, fungi, sunlight and weathering.

Stain mix is to meet requirements for mildew resistance to Fed. Test Method Std. 141, Method 6271, and requirements for weathering resistance of 1000 hours accelerated exposure measured by weather-o-meter in accordance with ASTM-G26 or G155. Provide 3-4 stain coats, varying the color to develop a natural rock-like color variation.

The final color of the cast stone concrete surface is to accurately simulate the appearance of real stone including the multiple colors that are apparent in real stone.

IV. CONSTRUCTION:

Design Requirements: Maintain the minimum concrete cover over the reinforcement with the minimum cover thickness measured at the lowest point of the pattern relief, and as shown on the contract drawings.

Submit shop drawings for review and acceptance prior to ordering form(s) or commencing concrete finish work.

(a) Pre-construction Meeting

Conduct a pre-construction meeting with the formliner supplier to assure understanding of formliner use, color application, and to coordinate the work. The same supplier is to be used for the entire project.

Submit product data and details for the architectural treatment. Include a 4-foot x 4-foot sample of the formliner, method of curing, corner details, and method of transitioning from architecturally treated surfaces to non-architecturally treated surfaces.

Supplier of the formliners shall have at least five year's experience in delivering a complete system to the industry consisting of formliners, technical support, and on-site assistance.

(b) Mock-up

Build a mock-up at the construction site thirty (30) days before work starts, using the same materials, methods and work force that will be used for the project. The Representative will determine specific requirements, and whether mockups can be incorporated into the project. This work is considered incidental with no separate or additional payments made. Separate mock ups and submissions will be required for each formliner or pattern being used.

Make the test surface contain the details to be used including horizontal and vertical pattern terminations, panel-to-panel pattern match, and construction joint detail. Submit details that may be encountered which are not covered by the contract drawings.

1. Size: 4' x 8' or larger if needed to adequately illustrate the pattern and texture selected.
2. Include an area to demonstrate formliner butt joint, V-notch, expansion joint and corner joint. The pattern intersecting corners are to line up on both sides of the corner to represent the continuation of the same stone on both sides of the corner stones.
3. After coloring is determined to be acceptable by the Representative, construction of the panels may proceed, using the mock-up as the quality standard for the formliner pattern.

(c) Color-Staining

The final stained color pattern is to be comprised of a minimum of four different color variations each applied to individual stones in random patterns. One color will closely match the color of the finished

concrete on untreated surfaces. Submit Color Chip Samples and a color staining plan for approval prior to work.

Provide material and color stain applicator having a minimum of five consecutive years of experience in textured and stained concrete construction. Furnish evidence to the satisfaction of the Representative that the proposed products have been successfully used in similar applications to duplicate the appearance of natural stone.

Submit a penetrating color staining plan to the Representative for approval prior to the application of penetrating stain to cast-in-place concrete elements.

(d) Application

Attach liners directly to forms or to plywood to be attached to forms. Use form manufacturer's special adhesives or mechanical fasteners or a combination of these products, but only as is consistent with the liner manufacturer's instructions. Properly attach the liners to produce truly vertical and horizontal pattern lines and to assure correct pattern match and pattern repeat. It is mandatory to keep the liner in full contact with the form in order to eliminate liner deformation, air pockets, and grout leakage behind the form.

Use only concrete admixtures, aggregates, form coatings, and water/cement ratios recommended by the form manufacturer and in accordance with Publication 408 and approved by the Representative as compatible with formliners. Cure concrete in accordance with Publication 408 and as recommended by the formliner manufacturer. Follow formliner manufacturer's recommendations for care of formliners, concrete placement, form ties, joining formliners, and use of release agents.

Grout Control: In order to prevent the accumulation of grout forming behind the liner in cases where an absolute seal is impossible to obtain (the seal between liner and form panels), provide bleed-off points in the form to allow grout leakage to occur.

Remove all seam lines created by abutting molds. Clean the surfaces of all latency, dirt, dust, grease, form oil, efflorescence, and any foreign material prior to stain application.

Do not apply penetrating stain when air and/or concrete temperature are less than 46 degrees F.

V. MEASUREMENT AND PAYMENT – Square Foot

Payment for this work is to be Included in the Lump Sum price for the indicated structure.

CONTRACTOR COORDINATION

Contractor is to coordinate all construction and inspection activities, including access, with the property owners and tenants. Develop and provide a realistic two-week look-ahead schedule to the Representative for review and approval. Coordinate with adjacent property owners, impacted utility companies, and other City Departments as necessary throughout the project. Coordinate the construction activities with all other contractors operating in this area, whether under contract to the City of Philadelphia or public utility companies.

Notify the appropriate City/PennDOT Administrators, City Streets Department Public Relations Office (via the Representative), Southeastern Pennsylvania Transportation Authority (SEPTA), and PennDOT Press Office (610-205-6800) a minimum of fifteen (15) calendar days prior to beginning construction or any closures that will adversely impact the flow of traffic for this and/or adjacent projects by traffic restriction, potential travel delays, and/or upcoming changes to traffic due to contractor activities, and/or any other activities deemed necessary by the Representative, in order to allow for advanced work notification to the public/community. After notification, the Department will advise the public of these traffic restrictions and possible delays.

If requested by the Representative, provide written or electronic notification of upcoming operations to the affected community and/or property owners/occupants.

Designate an individual to serve as Traffic Control Coordinator. Assure that this individual is responsible for the project maintenance and protection of traffic, and/or community outreach via press release notifications. Furnish to the Representative, PennDOT, and City of Philadelphia Police Department the name and address of the Traffic Control Coordinator and a telephone number where this person can always be reached.

Photographically document all signs within the limit of work prior to beginning work.

This work will be considered incidental to the Item Maintenance and Protection of Traffic During Construction. No additional compensation will be provided.

DEWATERING (PSSP E00001)

I. DESCRIPTION – This work is the dewatering of all excavations before placing concrete.

II. MATERIAL – None.

III. CONSTRUCTION – Unless otherwise specified, dewater all excavations before placing concrete. Remove water that has accumulated in the excavation after final inspection and before concrete placement using approved methods.

IV. MEASUREMENT AND PAYMENT – This work is incidental to the contract without separate or additional payment.

PRE-CONSTRUCTION FIELD MEETING – TREE REMOVAL

Prior to the start of Clearing and Grubbing on the project, a field meeting between the contractor, the engineer, and representatives of the City must be held. At this meeting the alley will be walked to confirm and identify all trees and shrubs that will be removed. If directed, mark each tree and shrub to be removed. Tree removal is including in the Clearing and Grubbing item.

Any tree or shrub within project limits that will impact construction activities may be removed. Any tree or shrub not identified and clearly marked for removal must not be impacted by construction activities within the project limits.

Trees and shrubs may be removed if determined to be an obstruction to TESPS based on size, location, and depth of TESPS. Cost of removal is incidental to Clearing and Grubbing.

SELECTIVE DEMOLITION

I. DESCRIPTION –

(a) This work includes the demolition, collection, handling, storing, testing, classifying, transportation, and disposal of selected portions of buildings or structures, site elements such as timber and steel decks, metal stairs, alley sidewalk, fencing over the wall and within alleyway, garages, and salvage of existing items for the City of Philadelphia in accordance with applicable EPA and Pennsylvania DEP regulations. All required permits related to this work are to be obtained by the contractor.

(b) Implementation by the Contractor of the appropriate health and safety measures during all site work, including but not limited to the excavation, handling, stockpiling, sampling, loading, transportation, storage, reuse, and disposal/recycling of regulated materials.

(c) Implementation by the Contractor of a safe working environment at all times and to maintain a safe, clean, and healthy worksite which complies with the requirements of all applicable Federal, State, County, and City Regulations. The Contractor is to supply, install, and maintain all safety apparatus and equipment necessary to protect the welfare of the employees and the public.

(d) Comply with all applicable regulations even if the regulation is not specifically referenced herein. If a State, County, or City regulation is more restrictive than the requirements of this Provision, follow the more restrictive requirements.

II. REQUIREMENTS:

In accordance with The City of Philadelphia, the requirements include:

(a) Comply with governing EPA notification regulation before beginning selective demolition.

(b) Comply with hauling and disposal regulations of authorities having jurisdiction.

(c) Comply with ANSI/ASSP A10.6 and NFPA 241 standards.

III. SUBMITTALS:

Submit the following plans, programs, and transportation/disposal company information for City review and acceptance a minimum of 21 calendar days before the start of demolition.

- Submit for approval a proposed plan of demolition to the City of Philadelphia showing or describing the removal methods to be used. Do not proceed with this work until written approval is received from the Representative. Review and acceptance of the plan does not relieve the Contractor of complete responsibility for safety, or any damage caused by the removal operations. Within the proposed plan of demolition, provide methods for the protection and safety of the general public and public utilities.

- Waste Handling Plan: A written program that addresses the proper handling and disposal of all waste. Include the procedures that will be followed for the collection of representative samples of the waste; testing of the waste, the procedures for the site handling, storage, and packaging of the waste; and contingency plans in the event of a spill.

- Laboratory Report: Include the following minimum information in each report: Identity of the waste analyzed, the number of samples collected and tested, dates of sampling and testing,

laboratory test procedures utilized, the names and signatures of the individuals collecting the samples and conducting the laboratory tests, and an interpretation of the test results. Include copies of the chain-of-custody forms in the documentation.

- Transporter Information: The names, addresses, license or permit numbers, and qualifications of the proposed haulers of hazardous waste, non-hazardous waste, and waste water.

- Hazardous Waste Disposal Information: The names, addresses, license or permit numbers, and qualifications of the proposed disposal operators of hazardous waste, non-hazardous waste, and waste water.

IV. CONSTRUCTION:

Conduct the work in strict accordance with Federal, State, and local regulations governing worker protection. All worker protection requirements apply to Contractor and Subcontractor personnel working for the Contractor who are exposed to hazardous material.

It is the sole responsibility of the Contractor to completely address worker health and safety and potential risks of exposure to site-specific hazards.

Do not damage or remove any portion of the existing buildings which are to remain in place. Repair any damage to the existing buildings as a result of the construction operations to the satisfaction of the Representative at no additional cost to the City of Philadelphia.

Satisfactory prevent or control dust resulting from removal.

Do not store any material removed during these operations on adjacent private property unless written permission from the property owner is obtained.

The contractor is to select their desired removal means and methods to allow for the existing members scheduled to remain during construction to remain intact and operational. Use methods required to complete the Work within the limitations of governing regulations.

Removed and Salvaged Items:

(a) Clean salvaged items.
(b) Pack or crate items after cleaning. Identify contents of containers.
(c) Store items in a secure area until delivery to Owner.
(d) Transport items to Owner's storage area designated by Owner.
(e) Protect items from damage during transport and storage.

Removed and Reinstalled Items:

(a) Clean and repair items to functional condition adequate for intended reuse.
(b) Pack or crate items after cleaning and repairing. Identify contents of containers.
(c) Protect items from damage during transport and storage.
(d) Reinstall items in locations indicated. Comply with installation requirements for new materials and equipment. Provide connections, supports, and miscellaneous materials necessary to make item functional for use indicated.

Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by an Engineer, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.

Prior to demolition activities, the contractor must verify that all impacted utilities are shut off or protected and that each utility company has notified the property owners and City Representative of any service shut-off.

V. DISPOSAL AND CLEANING:

Remove demolition waste materials from Project site and dispose of them in an EPA-approved construction and demolition waste landfill acceptable to authorities having jurisdiction.

(a) Do not allow demolished materials to accumulate on-site.
(b) Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
(c) Burning: Do not burn demolished materials.
(d) Clean adjacent structures and improvements of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

VI. MEASUREMENT AND PAYMENT

Incidental to ITEM 9000-0012 Removal of Existing Stone Masonry Wall

Incidental to ITEM 9000-0013 Removal and Reconstruction of Existing Timber Decks and Stairs

Incidental to ITEM 9000-0014 Removal and Reconstruction of Existing Metal Landings and Stairs

Incidental to ITEM 9000-0015 thru ITEM 9000-0025 Removal of Garages

ITEM 0202-0001 – CLEARING AND GRUBBING

In accordance with Section 201, and as follows:

This work also includes the removal of abandoned utility poles.

ITEM 0609-0009 – EQUIPMENT PACKAGE

In accordance with Section 609, Philadelphia City standards and as follows:

Table A

EQUIPMENT PACKAGE	
Equipment	**Quantity**
Communications Equipment	
High Capacity Multifunctional Device (MFD) (1)	1
Low Capacity Multifunctional Device (MFD) (1)	N/A
Cellular Phone(s)	2
Specialized Equipment	
Surveyor's Level & Measuring Rod	N/A
Electronic Digitizer	N/A
Digital Display Level	1
Infrared Thermometer	1
Laser Range Finder	N/A
Paper Shredder	1
Digital Camera	1
Internet Service	
Internet Service Provider	Yes
Wireless Internet Broadband Router (2)	Yes
Miscellaneous Items	
Computer Media	Yes
High yield MFD Ink/Toners Cartridges	Yes

1. Unless otherwise approved, a MFD must be furnished in lieu of a separate copier, laser printer, color printer, scanner, and fax.

2. Provide compatible, powered internet hardware with firewall protection capable of wireless WPA2 security internet service and eight hardwired network ports, and pre-shared key. All cabling needed to interconnect network hardware and all microcomputer systems are required.

Microcomputer Systems. A total of two (2) microcomputer systems is estimated to be used on the project.

This information is being provided to assist Bidders in meeting the requirements of Section 609.2(c), Communications Equipment, Section 609.2(e), Internet Service, and Section 609.2(f), Miscellaneous Materials.

Microcomputer systems may be furnished by the Department. If microcomputer systems are to be furnished by the Contractor, as part of the construction Contract, the bid will include applicable, 0688-0002 bid items. When indicated, furnish microcomputer systems meeting the requirements of Section 688.

ITEM 4686-0050 – CONSTRUCTION SURVEYING, TYPE D PHL STD

In accordance with Section 686 and as follows:

686.1 DESCRIPTION. Revise to add the following:

This work also consists of coordinating with the City of Philadelphia, Department of Streets, Survey District Office work forces for them to furnish and install curb stakes, edge of sidewalk stakes, and construction centerline (horizontal and vertical profile) stakes. This is exclusive and independent of the necessary surveying for the construction of the remaining items, which is the responsibility of the Contractor.

Section 686.3(a) General. Revise to add the following:

Employ a Professional Land Surveyor or Professional Engineer, registered in the State, qualified in the use of highway and bridge plans; cross sections and specifications; and procedures for establishing line and grade, structure locations, and dimensions, as may be required. Assume full responsibility for dimensions and elevations taken from control stakes and for the setting of structure location and line and grade stakes.

The Survey District Office work forces will furnish, at its own expense, all necessary stakes as required to construct the roadway improvement in the approaches in accordance with the lines and grades, as indicated, or the City Plan.

Notify the proper Survey District Office a minimum of two (2) weeks prior to needing any survey work in order to schedule a time for the work forces to perform their surveys.

Preserve all stakes furnished by the Survey District Office. Survey District Office resets due to damaged, lost, displaced, or removed stakes and any additional surveying requested by the Contractor is at the Contractor's sole expense. The Surveyor & Regulator may choose to verify and correct at its discretion any stakeouts or completed work elements including roadway improvements performed by the Contractor.

Furnish all stakes necessary to construct the remaining items beyond those stakes furnished by the Surveyor & Regulator, including, but not limited to, stakes required for ADA-compliant ramps.

Conform the finished work to the lines, grades, and dimensions shown on the drawings. Any errors or deviations caused by the Contractor or the Contractor's surveyor must be corrected at the Contractor's sole expense.

ITEM 0901-0001 – MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION

I. DESCRIPTION –

This work is for the maintenance and protection of traffic for all traveled roadways within the construction area in accordance with PennDOT Publication 213, PennDOT Publication 212, Section 901 of PDT 408, the drawings, the pavement marking handbooks, MUTCD, and these special provisions.

This work includes providing for temporary roadway and alley lighting, temporary pedestrian walkways, flashers, flashing arrow boards, traffic cones, flagmen, delineators, barricades, temporary signs and all materials, equipment, and labor necessary for the acceptable maintenance and protection of vehicular and pedestrian traffic.

II. CONSTRUCTION –

GENERAL

- Maintenance and protection of traffic is to be in accordance with Section 901, except as herein modified and/or supplemented.
- Coordinate parking and other construction activities on the city streets and sidewalks with the City of Philadelphia, the local neighborhood, and any local venues or events.
- Directly notify local residents, businesses, school districts, and emergency management agencies (EMAs) of work that impacts those entities at the start of the project and again seven days in advance of such work. Provide documentation of such notifications to the Representative.
- Notify property owners ten days in advance of driveway restrictions affecting their properties.
- Maintain pedestrian access at all times to all buildings on 61st Street, 63rd Street, Nassau Road, and Jefferson Street.
- Construction noise is limited from night through early morning. When construction noise affects residences, it should be no more than five decibels above the background sound level from 8 p.m. to 7 a.m. on weekdays, and from 8 p.m. to 8 a.m. on weekends.
- Do not perform travel lane restrictions or perform any activities which will impede vehicular or pedestrian access during the following periods:
  - Friday 6:00 AM through Monday 9:00 PM (Easter Weekend)
  - Friday 6:00 AM through Tuesday 9:00 PM (Memorial Day Weekend)
  - July 3, 6:00 AM through July 6, 9:00 PM (Independence Day Holiday)
  - Wednesday 6:00 AM through Monday 9:00 PM (Thanksgiving Weekend)
  - December 23, 6:00 AM through December 26, 9:00 PM (Christmas Holiday)
  - December 30, 6:00 AM through January 2, 9:00 PM (New Year’s Holiday)
- Protect any excavations, obstructions, or construction work so vehicles and pedestrians are not exposed to hazards.
- Secure all work areas with a 4’ tall plastic or metal fence.
- Post restrictions, such as “No Parking” or “Sidewalk Closed” signs, as needed and as directed by the City of Philadelphia.
- Leave accessibility to all fire hydrants, water valves, and mailboxes.
- Maintain minimum 36” wide access for pedestrians and emergency services along the Jefferson Street alleyway.
- Provide temporary lighting until the four (4) existing alley lights are replaced and operational.

- Provide street sweeping as necessary at construction access points as needed to clear any dirt/debris that may collect from entering/exiting vehicles.

PERMITS REQUIRED

- No contract work will be performed on behalf of the Philadelphia Department of Streets without all required permits being in place, and on display as may be required by the terms of the permit.
- No street closures are anticipated for this project. Closure of the parking lane may be necessary at driveways designated for project access, or adjacent to the alley on 61st Street. If a street closure becomes necessary, a Street Closure Permit, issued by the Department of Streets Right of Way Unit, is to be on display at all times, in accordance with the terms of the permit, and the Philadelphia Code. There is no fee for street closure permits associated with work performed under a City Contract.
- Coordinate with the City Streets Department for Hauling Permits, as required. The City Streets Department Hauling Permits contact number is (215) 686-5546.

SEQUENCE OF CONSTRUCTION

- The work is to be pursued in a logical expeditious manner which minimizes the time period for full road closure.
- Maintain access at all times to adjacent properties, driveways and businesses. Notify adjacent property owners of construction a minimum of five (5) business days in advance of the work.
- Designate an individual or individuals as the Maintenance of Traffic Engineer who is to be responsible for the maintenance of traffic items. The name, address, and phone number(s) where the Maintenance of Traffic Engineer can be reached at all times must be furnished to the Representative.
- Notify the Traffic Engineering Construction Unit, at (215) 685-1206 fourteen (14) calendar days prior to implementing or changing traffic control phasing to coordinate details. Also, notify the PennDOT District 6-0 Press Officer, at (610) 205-6800 two (2) weeks prior to impacting traffic in any form on any state roads on or intersecting with this project.

CERTIFICATION OF FLAGGERS

- Flaggers must have successfully completed a PennDOT approved flagger training course within the last 3 years. Each flagger must carry a valid card containing the flagger name and signature, training source, and the date of course completion. A roster containing this information for all flaggers must be submitted to the Representative prior to the start of flagging operations.
- For information on the approved sources of training, contact the APC (Associated Pennsylvania Constructors) at (717) 238-2513.

EXPLANATION OF CONSTRUCTION ACTIVITIES

- Construction work for retaining wall replacement.
- Construction work for replacement of garages, wooden decks and steps.

- Construction work for curb-line and sidewalk modifications including curb replacement, sidewalk replacement, driveway replacement, and associated grading and seeding.

III. MEASUREMENT AND PAYMENT -– Lump Sum.

- This item includes the cost of all necessary protective devices as specified in Publication 213 or as directed by the Representative, and all materials, equipment and labor as necessary to provide a safe and efficient movement of traffic as herein specified and indicated.
- Payment will be made in proportion of percentage total work completed and approved by the Representative.

ITEM 8610-0001 - AS DESIGNED, 8610-0010, 8622-0001 – ALTERNATE WALLS

Construct one of the above structures between 61st Street and Jefferson Street and 63rd Street and Nassau Road

PART A –

V. DESCRIPTION – This work is either construction of retaining walls as designed or designing and constructing equivalent retaining walls of an alternate design in place of the "as-designed" retaining walls.

VI. DESIGN –

a. **General.** If alternate design retaining walls are bid, furnish, to the City, preliminary conceptual design calculations and drawings for the alternate retaining walls. Provide an alternate design equivalent to the original design and meeting applicable design criteria for strength and serviceability. Submit the alternate design to the City for acceptance. Refer to PennDOT Design Manual Part 4, PP 1.10, Bridge Submissions-Construction Phase, for details on procedures for contractor submissions. If the equivalency of an alternate design cannot be clearly established, the City Bridge Engineer will be arbiter and the City Bridge Engineer's decision will be final. Furnish, with the preliminary conceptual design submission, a tabulation identifying the differences between the "as designed" retaining walls and/or wingwalls and the alternate design retaining walls and/or wingwalls.

On the alternate design plans include the type of wall, location, length, top elevation(s), proposed bottom of footing/leveling pad elevation(s), cross-sections including backfill material type and limits, and quantities. Also show, as required, details for railings, copings, conduit, or other attachments to precast wall panels/units. Show complete layout plans and fabrication details for precast wall panels/units and footings/leveling pads including reinforcement and attachments, and step-by-step erection instructions. Any fabrication done before acceptance of the plans will be at the Contractor's risk.

Any delay in submission and acceptance of a proposed alternate design or a revision, and/or approval of required permits, will not extend the contract time.

If alternate design retaining walls are bid, and an acceptable preliminary conceptual design is not approved within 30 calendar days from the award date (6 days for the submission and 24 days for City review), construct the "as-designed" retaining wall at no additional cost to the City.

Alternate designs which take advantage of any errors and/or omissions in the plans for the "as-designed" wall or discrepancies between the "as-designed" wall plans and the special provisions covering alternate designs, will not be accepted. In the event any such error, omission, or discrepancy is discovered, immediately notify the City. Failure to notify the City will constitute a waiver of all claims for misunderstandings, ambiguities, or other situations resulting from the error, omission, or discrepancy.

Experimental or demonstration-type design concepts; or products, structures, or elements not preapproved by the City for general usage, will not be allowed in the alternate design.

Value Engineering may be applied to the "as-designed" retaining walls, but do not Value Engineer alternate design retaining walls.

Have the alternate design completed by a Professional Engineer registered in the Commonwealth of Pennsylvania.

Submit an affidavit, before or along with the preliminary conceptual design submission, stating that the designer is familiar with AASHTO, PennDOT, and other applicable design criteria, standards, and construction specifications. Also, submit a list of similar retaining walls designed for PennDOT or City of Philadelphia within the past 5 years.

Show, on first sheet of the alternate design, the seal of a Professional Engineer registered in the Commonwealth of Pennsylvania, a valid signature in ink, the date signed, a business name, a business address, and the note "These drawings (List Wall Type) supersede drawings (CIP Wall) approved (insert appropriate date)". Also include a statement “All assumptions made in the design are validated either by details or notes on these drawings.”

The City will furnish CADD files for the "as-designed" retaining walls upon request.

Prepare alternate design plans using City’s drafting standards.

b. **Design Computations and Design Specifications.** On the first sheet of the computations for the alternate design, show the seal of a Professional Engineer registered in the Commonwealth of Pennsylvania, a valid signature in ink, and the date signed.

Provide a complete set of computations for the alternate design of the retaining walls. Reproduce and insert computations from the "as-designed" walls, as needed. Provide additional calculations, as requested by the City Bridge Engineer to justify the design, throughout the life of the contract.

Designs copied directly from approved PennDOT or City of Philadelphia Standards need not be documented through independent computations. List such designs on the submission by referencing the drawing number of the applicable standard, and the sheet number, table, or graph.

Use PennDOT Design Manual Part 4 for design policy procedures and criteria. All design related requirements listed in PART B, "SPECIAL DRAWINGS AND SPECIAL DESIGN REQUIREMENTS", are applicable to the alternate design.

In the event that certain design parameters, stresses, or specifications are in conflict, the following order of predominance governs:

- Design requirements listed herein, in PART B, "SPECIAL DRAWINGS AND SPECIAL DESIGN REQUIREMENTS" and addenda (addendum) to the proposal.
- Philadelphia Building Code, current edition
- PennDOT Design Manual Part 4, "Structures" including revisions (Publication 15M).

- PennDOT Bridge Design and Bridge Construction Standards (Publications 218M and 219M).
- AASHTO LRFD Bridge Design Specifications as indicated for the "as-designed" walls.

In the event that a clear order of predominance cannot be established, or a difference in the interpretation of the design criteria, standards, specifications, or methodology cannot be resolved, the City Bridge Engineer will be arbiter and the City Bridge Engineer's decision will be final.

Submit shop drawings to the City for review and acceptance. The City is not responsible for work done without approved shop drawings.

If any provisions in PART B conflict with those in PART A, the provisions in PART B are to govern.

Within 60 calendar days after completion of the walls, revise the original drawings to show "as-built" conditions and submit them to the Representative.

c. **Design Requirements.** In the design of alternate retaining walls, comply with the design criteria as specified for the "as-designed" retaining walls, subject to the exceptions and/or additions in PART B, "SPECIAL DRAWINGS AND SPECIAL DESIGN REQUIREMENTS".

Provide equivalent inspection and maintenance accessibility for the alternate retaining wall as for the "as-designed" retaining wall and/or wingwall. In case of a disagreement on accessibility, the City Bridge Engineer's decision will be final.

Do not change the indicated horizontal and vertical alignment of retaining walls, except as noted in PART B, "SPECIAL DRAWINGS AND SPECIAL DESIGN REQUIREMENTS".

Design alternate retaining walls in accordance with the Recommended Soil Parameters per the NPI/WO 2020530-10 Retaining Wall 7-038 Geotechnical Memorandum.

Provide clear span(s) and/or distances from wall faces of not less than the minimum values indicated for the "as-designed" retaining walls, except as noted in PART B, "SPECIAL DRAWINGS AND SPECIAL DESIGN REQUIREMENTS".

Comply with all requirements of the approved permit(s). Obtain approved/amended permit(s) for alternate structures if necessary.

Be responsible for the cost and delay of any additional utility relocation that results from changes in the Contractor’s plans or construction sequences made subsequent to (1) acceptance of the utility’s relocation plans and (2) where the utility has physically moved its facilities based upon those relocation plans.

VII. MATERIAL – As indicated and as specified for each respective item included in the "as-designed" retaining walls. Use the same materials throughout any individual wall, or at both ends of any individual structure, unless otherwise specified or indicated.

VIII. CONSTRUCTION – In accordance with applicable sections of the City of Philadelphia Codes and Ordinances, Project Specifications, Publication 408, Special Provisions for each respective item, and any additional requirements specified herein. Submit construction procedures for an alternate design for acceptance, if other than those specified herein. If utility relocations are required as part of an alternate design, be responsible for the cost of the utility relocations and any related delay claim costs.

IX. MEASUREMENT AND PAYMENT – Lump Sum.

Cost of obtaining permits required for the construction of the wall are incidental to this item.

Submit the “Component Item Schedule”, included with the Proposal, as specified in Section 103.01(a). Make the “Total” at the end of the “Component Item Schedule” equal the amount of the limp sum shown for the structure

PART B, SPECIAL DRAWINGS AND SPECIAL DESIGN REQUIREMENTS FOR RETAINING WALL

PART B - SPECIAL DRAWINGS AND SPECIAL DESIGN REQUIREMENTS

X. PROVISION BODY –

Wall systems shall be gravity walls. Do not use a wall system that requires geogrid straps or reinforced soils.

Acceptable gravity wall manufactures are Redi-Rock and Dura-Hold.

Mechanically Stabilized Earth Walls are not permitted.

The Contractor to provide external stability calculations including bearing resistance, sliding, overturning, global stability and settlement.

All alternate designs must provide the same architectural surface treatments as the as-designed structures in accordance with the contract special provision Architectural Surface Treatment

Use epoxy coated reinforcement bars. Lightweight concrete is not allowed.

Use the same design specifications, design loads, methods, grade of reinforcement and class of concrete as indicated for the “as-designed” structure.

The alternate design must be designed for surcharge loading from garages.

Protective coatings are to be applied to alternate design structures to match the areas and overall aesthetic treatments as indicated on the “as-designed” structure.

Relocation of the front face of the wall is not permitted. The Contractor is permitted to adjust the estimated number of wall steps, length of wall steps, or both for the As-Designed alternate as long as minimum cover depths are maintained.

Maintain the “as-designed” horizontal alignment and profile grade elevations.

Provide a complete set of computations for the alternate designs. Include the designs of the wall elements and their foundations.

Provide all documentation for all loadings applicable to the alternate designs. Do not use references to the “as-designed” calculations. Reproduce any information contained in the computations for the “as-designed” structure if it is to be included in the alternate designs.

For all alternate structure designs, submit with the conceptual drawing submission, a list describing all changes made to the “as-designed” structure.

The City reserves the right to reject alternate designs for aesthetic reasons or quality of product. Do not adversely impact the properties with the alternate design.

Do not blast to excavate or place the wall footings.

Submit shop drawings for approval by the City Bridge Engineer only after pertinent design drawings are approved.

Provide adequate wall drainage with weepholes or foundation drain.

Re-use of Class 3 excavation for specified backfill is acceptable for the wall systems if the material is tested to meet the specified backfill requirements of the wall manufacturer.

ITEM 9000-0001 – COMPOST SOCK WASHOUT

I. DESCRIPTION - This work is the removal and disposal of concrete waste by furnishing, maintaining, and removing a temporary compost sock washout.

II. MATERIAL –

Compost Filter Sock – Section 867.2 of Publication 408.

Wood Stakes –

1. Untreated fir, redwood, cedar or pine and cut from sound timber.
2. Straight and free of loose or unsound knots and their defects which would render stakes unfit for use.
3. Pointed on the end to be driven into the ground.
4. At least 2” x 2” x 36”.

Impervious Geomembrane – Section 736 of Publication 408.

III. CONSTRUCTION – Section 867.3 of Publication 408, as indicated, and as follows:

Place compost sock washout facility at the job site:

1. Before concrete placement activities start.
2. In the immediate area of concrete work as approved by the Representative.
3. No closer than fifty (50) feet from streams, storm drain inlets or watercourses.
4. Away from construction traffic or public access areas.

Maintain the Compost Sock Washout facility as required for the duration of the concrete operations.

Remove the concrete washout facility when concrete operations are finished. Dispose of the concrete washout facility components in a satisfactory manner.

IV. MEASUREMENT AND PAYMENT – Each.

ITEM 9000-0002 – SAWCUT FOOTWAY

I. DESCRIPTION - This work consists of saw-cutting existing footways to provide a smooth tie to the proposed sidewalk within the alleyway.

II. MATERIAL – As required.

III. CONSTRUCTION –

Provide full depth sawcut along existing footways to facilitate smooth tie-in with new concrete footway section. Equip saws with guides, blade guards, water- cooling system and cut- depth control. Saw the joint continuously and of sufficient depth to allow removal of the paving without disturbing the paving that is to remain.

Excavate around obstacles, including steps, brick panels, sidewalk adjacent to existing building face, curbs, or any other obstructions.

If necessary, temporarily remove and store obstructions that are supported on or embedded in the existing sidewalk (i.e. steel or wrought iron fencing, hand-rails, steel staircases, etc.). Reinstall items during/after the construction of new sidewalk at no additional cost to the Department.

If necessary, temporarily support existing sidewalk drain grates and vents during excavation for and construction of the footing for the new retaining wall and construction of the new sidewalk. Replace drain grates and piping damaged during construction at no additional cost to the Department.

IV. MEASUREMENT AND PAYMENT - Linear Foot.

ITEM 9000-0003 – PRE-CONSTRUCTION SURVEY AND REPAIRS TO DRIVEWAYS, APRONS, SIDEWALKS, AND CURBS

I. DESCRIPTION –

This work consists of conducting a pre-construction survey of the residential driveways and sidewalk areas used for construction access, including driveways, aprons, sidewalks, and curbs. In addition, this work includes any required repair for replacement of driveways, aprons, sidewalks, curbs, and city street pavement, as directed, following construction of the new retaining wall and concrete surface along the rear of the homes along Jefferson Street and Nassau Road. Any repairs required to the homes adjacent to access points are the responsibility of the contractor.

Driveways, aprons, sidewalks, and curbs used for construction access requiring the pre-construction survey, and repair/replacement (if directed) include the following:

- 6128 Nassau Road
- 6130 Nassau Road
- 6132 Nassau Road
- 6152 Nassau Road (west driveway to the gravel lot)
- 61st Street, adjacent to the alley between 6101 Jefferson Street and 6100 Nassau Road

II. MATERIAL –

Driveways (light duty):

- Excavation – Section 203
- Subbase 4” Depth (No. 2A) – Section 350
- Plain Cement Concrete Pavement, 6” Depth – Section 501, Section 704

Driveway aprons (light duty):

- Excavation – Section 203
- Subbase 4” Depth (No. 2A) – Section 350
- Cement Concrete Sidewalks, 6” Depth – Section 676

Full Depth Restoration (city streets)

- Milling – Section 491
- Excavation – Section 203
- Subbase 6” Depth (No. 2A) – Section 350
- Plain Cement Concrete Curb – Section 630
- Superpave Asphalt Mixture Design, Wearing Course, PG 64-22, 0.3 to < 3 million ESALs, 9.5 MM Mix, 1 ½” Depth, SRL-H – Section 409
- Superpave Asphalt Mixture Design, Binder Course, PG 64-22, 0.3 to < 3 million ESALS, 19.0 MM Mix 2 ½: Depth – Section 409
- H.E.S. Cement Concrete Pavement, 8” Depth – Section 704

Sidewalks (outside of driveway apron)

- Excavation – Section 203
- Subbase 4” Depth (No. 2A) – Section 350
- Cement Concrete Sidewalks, 4” Depth – Section 676

Lawn Restoration

- Topsoil Furnished and Placed – Section 802
- Formula B Seeding and Soil Supplements – Section 804
- Mulching – Section 805

III. CONSTRUCTION –

Prior to construction, conduct a survey of the condition and field survey to record elevations, dimensions and cross slopes of existing driveways, aprons, sidewalks, and curbs at the project access areas, and as directed. Also record the layout and dimensions of existing construction and expansion joints along driveways, aprons, curbs, and sidewalks.

If directed to replace curbs, construct concrete curb in accordance with the Department of Streets Standard Drawings SC0101 (for concrete curb) and SC0102 (for Type B curb). Place new curb at the same elevations as existing, or as directed. Restore city street adjacent to curb in accordance with SC0101. Use depressed curb with a 2" reveal for the width of the driveway in accordance with Department of Streets Standard Drawing SC0105.

If directed to replace driveways and driveway aprons, construct in accordance with Department of Streets Standard Drawing SC0105 using 6" concrete pavement for light duty. Construct Type 1 or Type 1A Driveway Aprons to match layout of existing aprons, or as directed. Place driveways and driveway aprons at the same elevations as existing, or as directed. Place construction and expansion joints at the same locations as existing, or as directed. If existing driveways have grass strips down the center or along the outside edges, then repair or replace in the same configuration or as directed. Restore grass areas with topsoil, seeding, and mulching.

If directed to replace sidewalks that are outside of the driveway width or driveway apron, construct 4" sidewalk in accordance with Department of Streets Standard Drawing SC0101.

Restore grass areas with topsoil, seeding, and mulching.

IV. MEASUREMENT AND PAYMENT - Dollar

The proposal will include an item and indicate a predetermined amount of money for this item. This contract will have a unit of measure of Dollar, a unit price of $1.00, and a quantity equal to the predetermined amount.

Due to the contingent or unpredictable nature of the work being performed, the provisions of Section 110.02(d) are not applicable to this item.

Measured by determining the actual amount of equipment, tools, labor, and work involved to acceptably perform the work paid for under this item as follows:

(a) Negotiated Price. At an agreed upon price. This price will be agreed upon with the Department before performing the work.
(b) Force Account Basis. Section 110.03(d).

Includes field survey, saw cutting, excavation, subbase, curbs, concrete pavements, sidewalks, asphalt wearing and binder courses, and all else necessary to provide a complete restoration.

ITEM 9000-0004 – ALLEY AERIAL SERVICE WIRE

I. DESCRIPTION – This work consists of coordination with PECO for service disconnection, and the furnishing of and installing of street lighting wire of the specified size. The wire is installed aerially for the purpose of electrical distribution between the PECO service point and the top of each alley pole.

II. MATERIAL –

- Messenger Cable for UF aerial
- 10-2 UF with Ground, UV resistant
- Wedge Clamps

III. CONSTRUCTION –

- Coordinate with PECO for PECO to disconnect electrical distribution at service point of each alley pole.
- The wire is installed aerially from PECO service point to the top of each pole. The wire is to be installed from the existing secondary at rear of homes.
- Minimum height requirements must be maintained for aerial wiring
- Attachments to alley poles can be made with wedge clamps or approved methods as directed by the Engineer.

IV. MEASUREMENT AND PAYMENT – Linear feet. This item is paid per linear foot of each wire installed from the service point to each alley pole.

ITEM 9000-0005 –ALLEY AERIAL SERVICE CONNECTION

I. DESCRIPTION – This work is coordination for PECO to perform aerial electrical connections at PECO point of service. Work is performed either via ladder or bucket truck. PECO to provide all materials needed for connection. Contractor to pay PECO for material, labor, and fees related to connection work.

II. MATERIAL –

- PECO will provide all material and labor needed to perform connection from alley service wire to existing secondary at rear of homes.

III. CONSTRUCTION –

- PECO to perform connection work.
- Coordinate with homeowners for any service disruptions.
- Perform aerial electrical connection to PECO point of service.
- Taps are made either by ladder or by bucket truck.

IV. MEASUREMENT AND PAYMENT – Each.

ITEM 9000-0006 – REMOVAL, FURNISH AND INSTALL ALLEY POLE AND LUMINAIRE IN WALKING ALLEY

I. DESCRIPTION – This work consists of the removal and disposal of existing, and the furnishing and installing of a 17' direct burial alley style light pole, luminaire and photocontrol and any associated bracket(s)and associated hardware, as indicated on the plan or as directed by the City.

II. MATERIAL –

All materials shall be manufactured in accordance with current AASHTO, AWS, ANSI, ASTM, NEMA standards, and PennDOT 408 Sections 1101 and 1105. Furnish materials incorporating the latest available ratings and design improvements.

The pole shall be designed per the latest edition of the AASHTO Standard Specifications for Structural Support For Highway Signs, Luminaires and Traffic Signals. Pole design shall be based on AASHTO wind speeds.

All luminaires shall be manufactured according to all requirements of the Underwriters Laboratories Standards for Safety. Appropriate labels or labels shall be affixed to each luminaire in a position concealing it from normal view.

POLE:

- Manufacturer: GeoTek-Alliance
- Model: DS17ASDN1-CPS (aka Model #D3TS17F00N1A0416)
- Length: 17' Overall
- Pole Tip: 4.0″ nominal
- Filament wound composite shaft consisting of continuous fiberglass roving combined with thermo-setting polyester resin wound in low angle helicals and high angle hoops providing for maximum resistance to deflection and shear.
- Pole finish is a 10 to 15 mil thick polyurethane finishing resin.
- Color: Black
- Finish: Natural
- Maximum EPA: 4.3 @ 90 mph with 1.3 gust
- Pole Weight: 28 lbs.
- Cable entry @ 24" below groundline
- Pole Base: 6.75″ nominal

BRACKET:

- Manufacturer: Evolve Catalog #074907
- Model: 35-962150-02
- 24" Mounting Arm Kit (Arm Only)

LUMINAIRE:

- Manufacturer: Accuity Brands Lighting AutoConnect Series
- Model: - Model #ACC P303 MVOLT D4I R2D 3K GY 20K NL P7 ZBR JP RFD339483

PHOTOCONTROLl:

- Manufacturer: ubicquia
- Model Number: UbiCell Smart Lighting ControlP124-8315A

WIRING

- 12-2 UF with ground.
  OR
  10-2 UF with ground.

III. CONSTRUCTION –

- Remove existing alley light poles.
- Install alley light pole in a walking alley as directed by the Engineer. Location(s) to be determined.
- All labor and materials necessary to mount pole, bracket, luminaire photocontrol are incidental to this item of work.
- Work includes sawcutting up to a 24” x 24” square, excavation for pole, setting of pole, backfilling, and restoring pavement to match existing pavement material.
- Pole to be installed at a depth of 36”.
- Pole to be installed plumb.

IV. MEASUREMENT AND PAYMENT – Each.

ITEM 9000-0007 – DESIGN AND CONSTRUCTION OF METAL RAILING

I. DESCRIPTION – The work is the construction of metal railing along the along the top of the proposed cheek wall, existing masonry wall, and existing concrete steps, at approximately Station 4+18.69, as directed by the representative. Work will also repairs needed to the existing masonry wall and concrete steps for embedment of railing posts.

II. MATERIAL – Before fabrication, submit shop drawings for review and acceptance.

- Metal Railing System – Provide metal railing panels, minimum 36" (42" maximum) height installed, with spindles 4" on centers, supported by metal posts fastened or embedded into the proposed cheek wall, existing masonry wall, and existing concrete steps. Metal railing may be steel, aluminum, or approved equal. Post metal material must be the same metal material as the railing.
- Class A Cement Concrete – Section 704

III. DESIGN – Metal Railing

- Design Specifications- City of Philadelphia requirements and specifications

- Design the metal railing for the intended loads and in accordance with current municipal guidelines, codes, and ordinances.

IV. CONSTRUCTION – In accordance with manufacturers requirements and as follows:

- Submit shop drawings for review and acceptance before starting fabrication.
- Remove blemishes and scratches from exposed surfaces. Assemble the rail panels with the rails parallel to grade and with the posts normal to grade. Make cuts true, smooth, and free from burrs or ragged edges. Fillet drill all re-entrant cuts before cutting. Do not flame cut.
- Welding. Section 1105.03(m) for steel, or weld according to AWS for aluminum.
- Railing for steps also 36" minimum height, measured at the center of tread.
- Embed railing posts into cheek wall, existing masonry wall, and existing steps in accordance with manufacturers specifications.
- The color of the powder-coated paint is black, Federal Standard 595C Color No. 17038.
- Galvanize and paint railing posts and other miscellaneous hardware in accordance with Section 1060, to provide a finish coat color black, Federal Standard 595C Color No. 17038.
- Submit color chips of the paint to be used for approval to the Department. Perform all color tinting of the paint in accordance with the recommendations of the paint manufacturer. Sixty (60) days prior to construction of the fence, provide a mockup of the fence consisting of twenty (20) linear feet of fence. Until the mockup is approved by the department, do not fabricate or purchase fence materials.

V. MEASUREMENT AND PAYMENT – Lump Sum

Includes railing installation for the proposed cheek wall, existing masonry wall, and existing concrete steps, concrete repair, post installation, materials, excavation, subgrade compaction, and all else necessary to provide a complete installation.

ITEM 9000-0008 – CHEEK WALL

I. DESCRIPTION – This work is construction of a reinforced concrete cheek wall to support a vertical drop along the alley sidewalk.

II. MATERIAL –

- Class A Cement Concrete: Publication 408/2020 Section 704
- Subbase: Publication 408/2020 Section 350.2
- Reinforcement bars, epoxy coated: Publication 408/2020 Section 1002.2(a), size as indicated.

III. CONSTRUCTION – Construct in accordance with City of Philadelphia Codes and Ordinances, Project Specifications, applicable sections of the Specifications, Publication 408, Supplements thereto, and as indicated.

IV. MEASUREMENT AND PAYMENT – Lumps Sum. Bond-breaker material is incidental.

ITEM 9000-0009 – CHAIN LINK FENCE, 4 FEET HIGH

I. DESCRIPTION – This work is the construction of chain link fencing, 4 feet high, to replace existing fences under decks, around gardens, etc. within the alley, as directed by the representative. Removal of existing fences is incidental to the dismantling of the existing retaining wall. Work will also include installation of new gates, posts, chain link wire mesh fabric, and all other items to provide a complete installation.

II. MATERIAL –

1) Chain link fence
   a) Section 624.2
2) Or approved equal.

III. CONSTRUCTION – Section 624.3, and as indicated and directed.

IV. MEASUREMENT AND PAYMENT – Linear Foot

Includes all fence fabric, posts, gates, concrete foundations, and hardware as required.

ITEM 9000-0010 – CHAIN LINK FENCE, 6 FEET HIGH

I. DESCRIPTION – This work is the construction of chain link fencing, 6 feet high, to replace existing fences under decks, around gardens, etc. within the alley, as directed by the representative. Removal of existing fences is incidental to the dismantling of the existing retaining wall. Work will also include installation of new gates, posts, chain link wire mesh fabric, and all other items to provide a complete installation.

II. MATERIAL –

1) Chain link fence
   a) Section 624.2
2) Or approved equal.

III. CONSTRUCTION – Section 624.3, and as indicated and directed.

IV. MEASUREMENT AND PAYMENT – Linear Foot

Includes all fence fabric, posts, gates, concrete foundations, and hardware as required.

ITEM 9000-0011 - WEIGHTED SEDIMENT FILTER TUBE, 20" DIAMETER

I. DESCRIPTION – This work is furnishing, placing, maintaining, and removing weighted sediment filter tubes.

II. MATERIAL – Before fabrication, submit shop drawings for review and acceptance.

- 18" Sediment Tube - Section 867
- Metal T-Post - Section 1105

Materials will be in accordance with the Pennsylvania Department of Environmental Protection's (PADEP) Erosion and Sediment Pollution Control Program Manual, Technical Guidance Number 363-2134-008.

III. CONSTRUCTION – In accordance with manufacturers requirements and as follows:

Construct Weighted Sediment Filter Tubes as indicated and as directed. Place the tube in concentrated flow areas and stake with T-posts to prevent movement. Install the T-posts at the center and at each end of the tube to secure it. Place T-posts at 2 foot maximum intervals. Inspect the tubes weekly and after each runoff event; remove sediment when it reaches half the height of the tube. Replace any damaged tubes within 24 hours at no additional cost.

IV. MEASUREMENT AND PAYMENT – Linear Foot. Includes restoration of area to existing conditions.

ITEM 9000-0012 - REMOVAL OF EXISTING STONE MASONRY WALL

I. DESCRIPTION – This work includes the labor, material and equipment for the removal and disposing of the existing stone wall.

II. REQUIREMENTS-

Comply with the requirements identified in Specification: Selective Demolition and 9000-0027 Vibration and Movement Monitoring Plan.

III. CONSTRUCTION-

The City of Philadelphia reserves the right to change the nature and limits of the work to assure a satisfactory removal of stone masonry wall.

Contractor shall select appropriate means and methods to ensure that the existing damaged wall is removed in a controlled manner and that the removal operation does not result in an uncontrolled collapse or failure of the masonry wall.

Equipment: Power driven hand tools for the removal of the mortared stone region may be required and are subject to the following restrictions:

Operations that require the use of pneumatic hammers is restricted to the period from 9:00AM to 4:00PM. Perform pneumatic hammer operations during the other hours only with the specific permission of the City of Philadelphia.

Do not use blasting as a method of removal.

V. MEASUREMENT AND PAYMENT – Linear Foot

REMOVAL OF EXISTING STONE MASONRY WALL includes designing, furnishing, and installing any devices or equipment necessary to complete the work, removal of the wall, and disposal of waste material and stone masonry wall. This item also includes costs for environmental protection, waste disposal and health and safety as required.

Removal of existing fences is incidental to the removal of the existing stone masonry wall.

When removal area coincides with excavation area of new construction, the pay limit for removal extends one (1) foot horizontally beyond the outer limits of the stone masonry wall being removed.

ITEM 9000-0013 - REMOVAL AND RECONSTRUCTION OF EXISTING TIMBER DECKS AND STAIRS

I. DESCRIPTION –This work is the removal and replacement of the existing timber and steel decks and stairs with a new timber decks and stairs.

The new timber decks and stairs are to consist of timber decking, timber framing, timber railing, and timber stairs with a deck and stair area not to exceed the existing deck and stair area. Orientation and location of the new timber decks and stairs are to match existing.

All required permits related to this work are to be obtained by the contractor.

This work includes the scheduling, completion, and passing of all required inspections by the City of Philadelphia.

OWNER NAME	**STREET ADRESS**	**Description (Approximate Existing Dimensions)**
JEROME PROPERTIES LLC	6153 Jefferson St	Deck: 12’-8” x 14’-5” Stairs: yes
TUCK, ROBERT MICHAEL	6155 Jefferson St	Deck: 8’-3” x 8’-3” Stairs: no
JACKSON, MARLO	6157 Jefferson St	Deck: 11’-3” x 13’-6” Stairs: yes
SMITH, ALLISON	6203 Jefferson St	Deck: 12’-6” x 4’-0” (metal) Stairs: yes (metal)
AFUWAPE, ROTIMI RASIDATU M	6205 Jefferson St	Deck: 10’-6” x 12’-4” Stairs: yes
WALTON, SADIYYA	6209 Jefferson St	Deck: 7’-2” x 13’-1” Stairs: yes
STRONG, KRYSTAL	6211 Jefferson St	Deck: 7’-2” x 14’-6” Stairs: yes
APC ENTERPRISES LLC	6213 Jefferson St	Deck: 10’-8” x 14’-0” Stairs: yes
WASHINGTON, TIFFINIE	6215 Jefferson St	Deck: 12’-6” x 4’-0” (metal) Stairs: yes (metal)
STRAWBERRY, ROSALIE STRAWBERRY, ANNA MARIE	6223 Jefferson St	Deck: 12’-9” x 12’-1” Stairs: no
FOSTER, ANDREA	6227 Jefferson St	Deck: no Stairs: yes
JACKSON, LILLIE	6229 Jefferson St	Deck: 12’-6” x 13’-6” Stairs: yes
PROSPEROUS ONE LLC	6231 Jefferson St	Deck: 11’-4” x 14’-7” Stairs: yes

II. DESIGN-

Design Specifications

- City of Philadelphia Codes and Regulations
- Philadelphia Building Code, 2018
- ASCE-07, 2018
- OSHA Standards

Design the structural components for the intended loads and in accordance with current City of Philadelphia codes and regulations.

Design deck, stair and railing for the intended loads and to meet the design live loads indicated in the above design specifications.

Match existing elevations of existing deck at the face of the building.

Contractor to follow all permit application and fee submissions to City of Philadelphia. Additional contract time or price adjustments will not be considered due to failure to obtain approvals or from non-conforming submissions.

VI. REQUIREMENTS-

- Comply with the requirements of the Specification: Selective Demolition
- Comply with Zoning permit requirements from Department of Licenses and Inspection City of Philadelphia.
- Comply with Building permit requirements from Department of Licenses and Inspection City of Philadelphia.

VII. MATERIAL-

In accordance with project requirements and specifications. Use new material for all new construction.

Timber:

a. Framing: All pressure treated, No. 2 Southern Pine or better

b. Railing: All pressure treated, No. 2 Southern Pine or better

c. Gate: All pressure treated, No. 2 Southern Pine or better

d. Decking: All pressure treated, No 2 Southern Pine or better

e. Support Posts: All pressure treated, No. 2 Southern Pine or better

f. Stairs: All pressure treated, No.2 Southern Pine or better

g. Fasteners: Hot-dipped galvanized, ASTM A153 Class D or ASTM F1667 Stainless Steel.

VIII. SUBMITTALS-

Submit all required documentation to satisfy the permit requirements set forth by the City of Philadelphia.

Before construction, provide documentation with photos of all sizes and dimensions of existing deck and stairs to be replaced as indicated in the Description above. Submit one electronic copy of the documentation to the City's Representative.

After construction is complete, provide documentation with photos of all elements that were replaced or rehabilitated in their final condition. Submit one electronic copy of the documentation to the City's Representative.

If applicable, the Contractor shall submit the signed and sealed documents for any prefabricated elements which are to include schematic drawings, design assumptions, design calculations, catalogues for prefabricated system for engineer's approval.

IX. CONSTRUCTION-

A field meeting is anticipated to be held between the Contractor and Property Owner prior to construction. The field meeting may be attended by the City of Philadelphia. The field meeting is intended to expedite the approval process and determine footprint area of the deck and stairs and hardware for the deck, railing, and stairs. Allow not less than 21 days to obtain approval from the Property Owner after field meeting. At a minimum, provide one person responsible for the item present at each field meeting to be available for questions, comments, and further direction.

Additional contract time or price adjustment to any contract item will not be considered due to failure to obtain approvals from incomplete or non-conforming submissions.

No construction of any item requiring approvals within this special provision can be started without written authorization from the Property Owner.

Contractor shall ensure no damage to the existing structures while removing the existing timber decks and stairs attached to the structures and during the installation of new decks. Post-installed anchors with minimal vibration shall be used for all types of attachments to existing structures. Any excavations performed for the installation of timber decks and stairs shall be restored to the original condition at no additional cost to the City of Philadelphia.

X. QUALIFICATIONS-

The work must be supervised by a superintendent or foreman who is experienced in the construction of timber decks and stairs. The agency shall have sufficient experience in providing similar projects.

XI. MEASUREMENT AND PAYMENT – Lump Sum

Cost of obtaining all applicable permits from the City of Philadelphia are incidental to this item.

Cost to schedule, complete, and pass all required inspections by the City of Philadelphia are incidental to this item.

All hardware, attachments, foundations, and structural components necessary for a complete installation of the timber decks, railings, support posts, and stairs are incidental to this item.

Includes designing, furnishing, and installing any devices or equipment necessary to complete the work, removal of the timber and metal decks and stairs, and disposal of waste material. This item also includes costs for environmental protection, waste disposal and health and safety as required.

ITEM 9000-0014 – REMOVAL AND RECONSTRUCTION OF EXISTING METAL LANDINGS AND STAIRS

I. DESCRIPTION-

This work is the removal and replacement of the existing metal landings and stairs with a new metal landings and stairs, powder coated black, as indicated below.

The new metal landings and stairs are to meet the City of Philadelphia requirements with an area not to exceed the existing landing and stair area. Orientation of the new metal landings and stairs are to match existing. All required permits related to this work are to be obtained by the contractor.

This work includes the scheduling, completion, and passing of all required inspections by the City of Philadelphia.

The approximate existing dimension of the typical metal landing is 9'-0" x 5'-0"

OWNER NAME	**STREET ADRESS**	**Description**
FRR 6101 PROPERTIES LLC	6101 Jefferson St	Shared
JENKINS DAVID, JENKINS DONNA JEAN	6103 Jefferson St	
FOSTER ANDREA	6105 Jefferson St	Shared
ETHIO WAY REALTY LLC	6107 Jefferson St	
JAKS DEVELOPMENT LLC	6109 Jefferson St	Shared
WILSON MICHAEL HUGH	6111 Jefferson St	
CELESTINE PHYLLIS	6113 Jefferson St	Shared
EDWARDS ROBERT L JR, EDWARDS PAMELA D	6115 Jefferson St	
FOSTER JASMINE	6117 Jefferson St	Shared
NEIGHBORHOOD RESTORATIONS	6119 Jefferson St	
FOSTER ROBERT A, FOSTER JUNE A	6121 Jefferson St	Shared
LYTTLE MARILYN, TYGHTER ANDREW	6123 Jefferson St	
IRWIN WANDA P, IRWIN RONALD	6125 Jefferson St	Shared
LARMOND COLIN	6127 Jefferson St	
BRADSHAW MARGARET, BRADSHAW CLEMINA	6129 Jefferson St	Shared
HOLMES ALICE	6131 Jefferson St	
REAL ESTATE INVESTMENT GROUP LLC	6133 Jefferson St	Shared
MOORE LESLIE T	6135 Jefferson St	
HANDS LYLE S, HANDS TASHA R	6137 Jefferson St	Shared
JOHNSON STACEY N	6139 Jefferson St	
FORTT ROBERT L, GWENDOLYN H/W	6141 Jefferson St	Shared - Damaged
JOSEPH STACY	6143 Jefferson St	

OWNER NAME	STREET ADRESS	Description
BLACKWELL GAIL	6145 Jefferson St	Shared - Damaged
COLEY THOMAS JR, COLEY TIESHA W	6147 Jefferson St	
C & L EMPIRE ENTERPRISES	6149 Jefferson St	Shared - Damaged
JADEJA MAYUR	6151 Jefferson St	

XII. DESIGN-

Design Specifications

- City of Philadelphia Codes and Regulations
- Philadelphia Building Code, 2018
- ASCE-07, 2018
- OSHA Standards

Design the structural components for the intended loads and in accordance with current City of Philadelphia codes and regulations.

Design landings, stair and railing for the intended loads and to meet the design live loads indicated in the above design specifications.

Match existing elevations of existing landing at the face of the building.

Contractor to follow all permit application and fee submissions to City of Philadelphia. Additional contract time or price adjustments will not be considered due to failure to obtain approvals or from non-conforming submissions.

XIII. REQUIREMENTS-

- Comply with the requirements of the Specification: Selective Demolition
- Comply with Zoning permit requirements from Department of Licenses and Inspection City of Philadelphia.
- Comply with Building permit requirements from Department of Licenses and Inspection City of Philadelphia.

XIV. MATERIAL-

In accordance with project requirements and specifications. Use new material for all new construction.

Galvanized Steel:

a. Steel Shapes: ASTM A36 Steel or ASTM A709 Gr. 50.

b. Steel Plates: ASTM A36 Steel or ASTM A709 Gr. 50.

c. Steel Decking: ASTM A653.

d. Steel Pipes: ASTM A53 Grade B Steel.

e. Structural Bolts: ASTM A307, Grade A or B.

f. Anchor Bolts: ASTM F1554, Grade 55.

g. Nuts: ASTM A563.

h. Washers: ASTM F436, Type 1.

i. Painting: Federal Standard Color ID: 17038 (OSHA Black)

XV. SUBMITTALS-

Submit all required documentation to satisfy the permit requirements set forth by the City of Philadelphia.

Before construction, provide documentation with photos of all sizes and dimensions of existing metal landings and stairs to be replaced as indicated in the Description above. Submit one electronic copy of the documentation to the City's Representative

After construction is complete, provide documentation with photos of all elements that were replaced or rehabilitated in their final condition. Submit one electronic copy of the documentation to the City's Representative.

Contractor shall submit the signed and sealed documents for the prefabricated metal stairs and landing which shall include schematic drawings, design assumptions, design calculations, catalogues for prefabricated system for engineer's approval.

XVI. CONSTRUCTION-

A field meeting is anticipated to be held between the Contractor and Property Owner prior to construction. The field meeting may be attended by the City of Philadelphia. The field meeting is intended to expedite the approval process and determine hardware for the landing, railing, and stairs. Allow not less than 21 days to obtain approval from the Property Owner after field meeting. At a minimum, provide one person responsible for the item present at each field meeting to be available for questions, comments, and further direction.

Additional contract time or price adjustment to any contract item will not be considered due to failure to obtain approvals from incomplete or non-conforming submissions.

No construction of any item requiring approvals within this special provision can be started without written authorization from the Property Owner.

Contractor shall ensure no damage to the existing structures while removing the existing metal landings and stairs attached to the structures and during the installation of new landings and stairs. Post-installed anchors with minimal vibration shall be used for all types of attachments to existing structures. Any excavations performed for the installation of metal landings and stairs shall be restored to the original condition at no additional cost to City of Philadelphia.

XVII. MEASUREMENT AND PAYMENT – Lump Sum

Cost of obtaining all applicable permits from the City of Philadelphia are incidental to this item.

Cost to schedule, complete, and pass all required inspections by the City of Philadelphia are incidental to this item.

All hardware, attachments, foundations, and structural components necessary for a complete installation of the landings, railings, support posts, and stairs are incidental to this item.

Includes designing, furnishing, and installing any devices or equipment necessary to complete the work, removal of the metal landings and stairs, and disposal of waste material. This item also includes costs for environmental protection, waste disposal and health and safety as required.

ITEM 9000-XXXX – REMOVAL OF GARAGE

ITEM(s) Associated:

9000-0015 REMOVAL OF GARAGE, 6122 NASSAU ROAD
9000-0016 REMOVAL OF GARAGE, 6124 NASSAU ROAD
9000-0017 REMOVAL OF GARAGE, 6126 NASSAU ROAD
9000-0018 REMOVAL OF GARAGE, 6128 NASSAU ROAD
9000-0019 REMOVAL OF GARAGE, 6130 NASSAU ROAD
9000-0020 REMOVAL OF GARAGE, 6132 NASSAU ROAD
9000-0021 REMOVAL OF GARAGE, 6134 NASSAU ROAD
9000-0022 REMOVAL OF GARAGE, 6138 NASSAU ROAD
9000-0023 REMOVAL OF GARAGE, 6140 NASSAU ROAD
9000-0024 REMOVAL OF GARAGE, 6142 NASSAU ROAD
9000-0025 REMOVAL OF GARAGE, 6146 NASSAU ROAD

I. DESCRIPTION –

This work includes the labor, material and equipment for the removal and disposing of the existing garages. All required permits related to this work are to be obtained by the contractor.

In addition, this work includes the labor, material, and equipment to move the garage contents, as identified by the property owner, to the temporary storage pods.

Property Owner	Address	Description (Approximate Existing Dimensions)
DARMON LLC	6122 Nassau Rd	18’-0”x20’-0”
BERNICE H/W PENNY FRED JR	6124 Nassau Rd	15’-0”x20’-6”
KEITH P. MORRIS AND DIANA MORRIS	6126 Nassau Rd	13’-0”x20’-0”
BURTON BARBARA B	6128 Nassau Rd	18’-0”x20’-6”
LYDE MARCIA A	6130 Nassau Rd	17’-0”x20’-6”
SZENSKO ANDREA M	6132 Nassau Rd	19’-0”x19’-0”
LONG NEIZ	6134 Nassau Rd	11’-0”x30’-0”
RAMONA DE REEF TR	6138 Nassau Rd	10’-6”x32’-6”
DEREEF RAMONA	6140 Nassau Rd	16’-0”x20’-6”
JACKSON BEATRICE J.	6142 Nassau Rd	12’-6”x20’-6”
SAUNDERS DOUGLAS, BELL-SAUNDERS DEBRA	6146 Nassau Rd	18’-0”x21’-0”

II. SUBMITTALS –

Moving Plan: A written program that addresses the moving of the garage contents to temporary storage pods. Include the order of the move (which items are to be moved first/last, which items are to be stored first/last), timing of the move (date, days, hours, phases), special handling requirements (equipment, packing, additional labor, protection), detachment and reinstallation instructions, and inventory list. Provide documentation with photos of all items to be moved and temporarily stored. Submit one electronic copy of the documentation to the City’s Representative and property owner.

Before removal and disposal of the garage, provide documentation with photos of all sizes and dimensions of existing garage as indicated in the Description above. Additionally, document all utilities, plumbing, and drainage facilities attached to the garage or in the garage. The photos,

dimensions, and any other forms of documentation are to be taken after the contents of the garage have been removed and stored in the temporary storage pods. Submit one electronic copy of the documentation to the City's Representative.

After removal of the garage is complete, provide documentation with photos of the garage site area in its final condition. Submit one electronic copy of the documentation to the City's Representative.

III. REQUIREMENTS-

Comply with the requirements of the Item Selective Demolition

VI. CONSTRUCTION

Early Coordination Meeting: Convene a meeting on-site within 21 calendar days from notice to proceed with the appropriate personnel performing the associated garage removal, site preparation, and moving of the garage contents and the property owner. Contact the City Representative to schedule the meeting.

Additional contract time or price adjustment to any contract item will not be considered due to failure to coordinate with the property owner for the complete move of all garage contents and removal and disposal of the garage.

No construction of any item requiring approvals within this special provision can be started without written authorization from the Property Owner.

Prior to garage demolition, the contractor must verify that all utilities servicing the garage are shut off and that each utility company has notified the property owner and the Representative of the service shut-off.

VII. MEASUREMENT AND PAYMENT – LS

Cost of obtaining all applicable permits from the City of Philadelphia are incidental to this item.

All components, hardware, surface preparation, and structural components necessary for a complete removal of the garages and the moving of contents are incidental to this item.

Includes designing, furnishing, and installing any devices or equipment necessary to complete the work, removal of the garages, and disposal of waste material. This item also includes costs for environmental protection, waste disposal and health and safety as required.

ITEM 9000-0026 – DESIGN AND CONSTRUCTION OF TEMPORARY EGRESS STAIRWAY

I. DESCRIPTION –

This work is the furnishing, design, construction, maintaining, and removal of temporary timber egress stairways for the property owners where the existing decks/landings with stairs are being removed to facilitate the construction of the proposed retaining wall and also at the construction access points. The temporary egress stairways will have a service life of 24 months or the duration of the respective wall construction, whichever is greater, based on the contractor's approved design. All required permits related to this work are to be obtained by the contractor.

OWNER NAME	**STREET ADRESS**	**Existing Condition**
JEROME PROPERTIES LLC	6153 Jefferson St	Existing Condition: Deck and Stairs
JACKSON, MARLO	6157 Jefferson St	Existing Condition: Deck and Stairs
SMITH, ALLISON	6203 Jefferson St	Existing Condition: Deck and Stairs
AFUWAPE, ROTIMI RASIDATU M	6205 Jefferson St	Existing Condition: Deck and Stairs
WALTON, SADIYYA	6209 Jefferson St	Existing Condition: Deck and Stairs
STRONG, KRYSTAL	6211 Jefferson St	Existing Condition: Deck and Stairs
APC ENTERPRISES LLC	6213 Jefferson St	Existing Condition: Deck and Stairs
WASHINGTON, TIFFINIE	6215 Jefferson St	Existing Condition: Deck and Stairs
FOSTER, ANDREA	6227 Jefferson St	Existing Condition: Stairs
JACKSON, LILLIE	6229 Jefferson St	Existing Condition: Deck and Stairs
PROSPEROUS ONE LLC	6231 Jefferson St	Existing Condition: Deck and Stairs
OWNER NAME	**STREET ADRESS**	**Existing Condition**
FRR 6101 PROPERTIES LLC	6101 Jefferson St	Shared Landing and Stairs
JENKINS DAVID, JENKINS DONNA JEAN	6103 Jefferson St	
FOSTER ANDREA	6105 Jefferson St	Shared Landing and Stairs
ETHIO WAY REALTY LLC	6107 Jefferson St	
JAKS DEVELOPMENT LLC	6109 Jefferson St	Shared Landing and Stairs
WILSON MICHAEL HUGH	6111 Jefferson St	
CELESTINE PHYLLIS	6113 Jefferson St	Shared Landing and Stairs
EDWARDS ROBERT L JR, EDWARDS PAMELA D	6115 Jefferson St	
FOSTER JASMINE	6117 Jefferson St	Shared Landing and Stairs
NEIGHBORHOOD RESTORATIONS	6119 Jefferson St	
FOSTER ROBERT A, FOSTER JUNE A	6121 Jefferson St	Shared Landing and Stairs
LYTTLE MARILYN, TYGHTER ANDREW	6123 Jefferson St	
IRWIN WANDA P, IRWIN RONALD	6125 Jefferson St	Shared Landing and Stairs
LARMOND COLIN	6127 Jefferson St	
BRADSHAW MARGARET, BRADSHAW CLEMINA	6129 Jefferson St	Shared Landing and Stairs
HOLMES ALICE	6131 Jefferson St	

REAL ESTATE INVESTMENT GROUP LLC	6133 Jefferson St	Shared Landing and Stairs
MOORE LESLIE T	6135 Jefferson St	
HANDS LYLE S, HANDS TASHA R	6137 Jefferson St	Shared Landing and Stairs
JOHNSON STACEY N	6139 Jefferson St	
FORTT ROBERT L, GWENDOLYN H/W	6141 Jefferson St	Shared Landing and Stairs
JOSEPH STACY	6143 Jefferson St	
BLACKWELL GAIL	6145 Jefferson St	Shared Landing and Stairs
COLEY THOMAS JR, COLEY TIESHA W	6147 Jefferson St	
C & L EMPIRE ENTERPRISES	6149 Jefferson St	Shared Landing and Stairs
JADEJA MAYUR	6151 Jefferson St	

II. DESIGN -

Design Specifications

- City of Philadelphia Codes and Regulations
- Philadelphia Building Code, 2018
- ASCE-07, 2018
- OSHA Standards

Design the temporary egress stairs for the intended loads in accordance with the above design specifications.

III. SUBMITTALS –

Submit a design conforming to the applicable design specifications, codes, and regulations.

Include in the design calculations all material properties, design loads, and design assumptions. Include on the completed detailed plans of the temporary egress stairways all design dimensions, elevations, material, and member sizes.

Submit schematic drawings and design calculations, signed and sealed by a Professional Engineer, registered in the Commonwealth of Pennsylvania, to the Engineer for review. The temporary egress stairways will be selected by the Contractor and submitted to the Engineer for review and approval prior to implementation/construction.

Review Times:
Submittal reviews will be performed within 20 working days for the first submission and within 20 working days for subsequent submissions.

Review times begin and end when a submission is logged in and out, respectively, by all designated reviewers. The login time will be taken as the latest date in which the submission is received by the reviewers. Submittals received after 12:00 PM will be logged in as the next working day following receipt of the submission. If a submission is incomplete or otherwise requires additional information or data to properly complete the review, the review time will begin as specified for the submission when all required information is received. Additional contract time or price adjustment to any contract items will not be considered due to failure to obtain approvals within the specified review times resulting from incomplete or non-conforming submissions.

Working days are weekdays, Monday through Friday. The following official City holidays will not be included as working days: New Year's Day, Martin Luther King Jr.'s Day, President's Day, Memorial Day, Juneteenth, Independence Day, Labor Day, Indigenous Peoples' Day, Veterans' Day, Thanksgiving Day, Christmas Day.

IV. MATERIAL -

Any temporary material used does not have to be new material but must be in serviceable condition as determined by the Engineer and meet the requirements specified in the City of Philadelphia codes and regulations.

V. CONSTRUCTION -

Construct the temporary egress stairway for each property owner within 1 hour from removal of the existing stairway from each property owner.

Temporary egress stairways are to be constructed for the residents where the existing decks/landings and stairs are being removed and shall remain throughout the construction activity. Potentially hazardous areas adjacent to sidewalks, walkways, or other areas used by pedestrians shall be protected to prevent pedestrian intrusion. The plan, along with any design calculations for the temporary egress to be used, must be signed and sealed by a Professional Engineer registered in the Commonwealth of Pennsylvania.

Construct the temporary egress stairways in accordance with the Contractor's approved design. Coordinate construction of the egress stairways with the construction of the retaining wall.

Maintain all elements of the temporary egress stairways in good condition. Repair or replace the temporary egress stairways, and any of its elements and supported elements as directed by the Engineer at no additional cost to the City of Philadelphia.

Completely remove all elements of the temporary egress stairways and its support system, under completion of their intended use, as approved by the Engineer, and return any disturb ground or building to preconstruction or final condition depending on the timing of the work. No portion of the temporary egress stairways will be incorporated into any component of the final design retaining wall or decks and stairs.

No construction of any item requiring approvals within this special provision can be started without written authorization from the Property Owner.

VI. MEASUREMENT AND PAYMENT – Lump Sum

Cost of obtaining all applicable permits from the City of Philadelphia are incidental to this item.

All components, hardware, attachments, and structural components necessary for a complete installation of the temporary egress stairways are incidental to this item.

ITEM 9000-0027 – VIBRATION AND MOVEMENT MONITORING AND CONTROL PLAN

I. DESCRIPTION –

(a) This work shall consists of furnishing, installing, protecting and maintaining vibration monitoring and movement monitoring instrumentation; collecting vibration and movement data; and interpreting and reporting the results of vibration monitoring and movement monitoring during demolition of existing wall, installing or removal of temporary excavation and support system, excavation activities, placement and compaction of embankment fill, and installation of proposed wall and other ancillary structures throughout the contract, or until directed otherwise by the Representative.

(b) Implementation by the Contractor of any required precautionary and remedial measures, using the vibration and movement monitoring data as a guide, to protect all buildings, structures, and vibration-sensitive utilities and facilities (referred hereinafter as "structures") within 50 feet (unless noted otherwise) of the construction activities or as directed by the City's Representative, from movement and excess vibration during construction activities.

(c) Performing pre-construction and post-construction surveys and inspections of all structures in the area within 50 feet of vibration-inducing construction activities.

(d) Development and preparation of a vibration and movement monitoring control program.

(e) Recording baseline survey and other movement monitoring readings, and ambient vibration levels, at structures to be monitored.

(f) Supplying qualified personnel or a qualified subcontractor meeting the requirements of this Special Provision.

The City is not responsible for the safety of the work based on vibration or movement monitoring data, and compliance with this Special Provision does not relieve the Contractor of full responsibility for damage caused by the Contractor's operations.

II. MATERIALS –

(a) Seismographs. Provide three-component direct-reading velocity instruments (seismographs), having a frequency range of 2 cycles per second to 250 cycles per second, or greater, a velocity range of 0.02 to 4.0 in./sec, and adhering to design criteria for portable seismographs as outlined in USBM RI 5708 and USBM RI 6487. Provide current calibration certification for the instruments, demonstrating that they have been calibrated within 12 months of the proposed start of monitoring. Provide hardware, enclosures and other necessary items to secure and protect the seismographs in the designated locations.

(b) Digital Cameras. Provide a high-resolution digital camera(s) capable of superimposing the date and time on all images. Each camera shall have a minimum sensor resolution of 12 MP and shall be capable of producing color images with a minimum size of 4000 x 3000 pixels.

(c) Displacement Monitoring Equipment. Provide optical survey points, surface monuments, crack gages, biaxial tiltmeters, and inclinometers to monitor displacement or relative motion of structures as indicated in the Vibration and Movement Monitoring Plan or as directed by the City's Representative.

(d) Provide current calibration certificates for all survey instruments and other instruments to be used for movement monitoring.

III. CONSTRUCTION –

(a) Qualifications

1. Employ a Professional Engineer or Geologist licensed in the Commonwealth of Pennsylvania to perform the vibration and movement monitoring work (Vibration and Movement Specialist). The Vibration and Movement Specialist shall have at least 5 years of experience installing, using, and interpreting vibration monitoring and movement monitoring instrumentation, with at least (3) projects of similar size and complexity in the previous 5 years.

2. Surveys of movement monitoring points shall be conducted by a Professional Land Surveyor licensed in the Commonwealth of Pennsylvania.

3. Submit the names and resumes of the Vibration and Movement Specialist and Professional Land Surveyor to the City for approval, at least 21 days prior to the installation of the instruments or monitoring points.

(b) Vibration and Movement Monitoring Plan

1. Submit three (3) copies of the Vibration and Movement Monitoring Plan to the City for review and approval, at least twenty-one (21) days prior to commencement of proposed construction activities. The Vibration and Movement Monitoring Plan will include, at a minimum:

   a. A list of all structures to be monitored.

   b. Written assessment of the vibration susceptibility of all structures listed, and any additional structures recommended by the Vibration and Movement Specialist. The Vibration Specialist shall identify any historic, old, fragile, and/or vibration-sensitive structures within 50 feet of construction operations. The Vibration and Movement Specialist shall also identify any structures which, in their opinion, may be damaged by vibrations from construction activities.

   c. Written assessment of structures for suitability of velocity-based monitoring criteria. If structures are more appropriately assessed by force-based criteria, peak accelerations shall be utilized in addition to peak particle velocity.

   d. Ambient vibration levels at a minimum of four (4) locations proposed for monitoring during construction. This monitoring should consist of a continuous recording of the maximum single-component peak particle velocities for one-minute intervals, displayed in a bar graph format. The ambient vibration monitoring shall be performed for a minimum of two non-consecutive workdays, spanning the hours which construction activities will take place.

   e. Location sketches depicting the proposed vibration and displacement monitoring points.

   f. Inspection schedule of all structures to be monitored, with anticipated submission dates for the Pre-Construction Inspection Report, Vibration Monitoring Report, Movement Monitoring Report, and Post-Construction Inspection Report.

   g. Proposed list of monitoring equipment to be used on the project, including the number and type of seismographs, survey instruments, other movement monitoring instruments, and the type, number and location of survey points.

   h. Description of any proposed modifications to construction equipment or methods to prevent structural damage, as necessary.

i. Proposed movement monitoring methods and instrumentation. The movement monitoring shall use optical survey points to monitor vertical and lateral displacements of identified structures, and surface monitoring points/monuments to monitor movements of alleyway and other ground surface points. Also provide crack gauges to monitor existing structural damage.

j. Provide threshold and limiting values for each instrument or monitoring point proposed by the Vibration and Movement Specialist. These values shall be defined collectively as Response Values. Response Values are subject to adjustment by the City as indicated by prevailing conditions or circumstances. The values indicated shall be reduced for existing structures noted as historic, fragile, sensitive or generally in 'satisfactory' or 'poor' condition in the Pre-Construction Inspection Report. These limits are frequency dependent and may vary by material and/or age of a structure.

k. Indicate Threshold Values and Limiting Values for peak particle velocities (or peak accelerations, if recommended) at structures.

l. Indicate Threshold Values and Limiting Values for the movement monitoring points, for vertical and lateral movements.

2. Do not commence any site work until the Vibration and Movement Monitoring Plan is approved.

(c) Pre-Construction Inspection Report

1. At least thirty (30) calendar days prior to commencing any excavation or vibration-inducing activities at the site, submit to the City for review and approval a list of all structures in the vicinity of the project to be inspected. Structures to be inspected will include structures located within 50 feet of the construction activities, and any additional structures recommended by the Vibration and Movement Specialist.

2. Obtain written permission to enter private property and residences for the purpose of conducting the inspection or taking photos. Provide the City with all copies of the written permissions provided. Do not enter a structure without prior written approval of the Owner. Conduct public contact in a courteous and informative manner designed to emphasize the measures being taken for protection of the interests of all concerned. Furnish the City with the names and phone numbers of all persons contacted. If access is denied to any property for which a pre-construction inspection is recommended, notify the City in writing.

3. The Vibration and Movement Specialist shall inspect all structures within the monitoring limits set forth in this Special Provision, and as identified in the list approved by the City. Tour the project vicinity and identify any additional structures that may be vulnerable to vibration damage. The Vibration and Movement Specialist shall take into consideration the energy imparted by anticipated vibration sources, the soil conditions, and the condition of the existing and proposed structures when determining the radius of influence of the Contractor's activities. The Vibration and Movement Specialist shall take photographs, perform a visual inspection, and take all measurements necessary to assess vibration susceptibility and to meet the minimum requirements of the Pre-Construction Inspection Report.

4. The Pre-Construction Inspection Report shall document:

    a. any existing damage and other factors (both inside and outside) which could be affected by construction activities.
    b. the conditions of the exterior wall and alley way of the Jefferson Properties that will require removal and replacement of decks, stairs, metal landings.
    c. any landscaping features including walls and plantings that are adjacent to the construction site.

d. the interior sub-grade and above grade accessible walls, ceiling, floors, and visible exterior as viewed from the grade level.
e. the existing structural and cosmetic conditions. Survey shall include all walls, and not be limited to areas of building showing existing damage.
f. the size and location of cracks or separations in foundations, walls, ceilings, floors, etc. Also include locations of any foundation dampness.
g. any areas that cannot be visually surveyed due to physical obstructions or restrictions of the property owner.
h. the size, location, and condition of all drains and vents along the alley between the existing retaining wall and the buildings along Jefferson Street. Clean off dirt and debris from each drain and vent and perform a water test to determine if any existing drain or vent is clogged or can drain adequately. Document the results of the water test for each drain and vent.

5. The Pre-Construction Inspection Report shall be submitted as a comprehensive report including a summary of all structures surveyed and general condition of each structure. Detailed inspection reports for each structure surveyed shall be included as attachments to the comprehensive report.

6. The report shall be in an 8.5 x 11 inch and/or 11 x 17 inch format, and shall include a table of contents, the names and responsibilities of the inspection party, and minimum 4 inch x 6 inch high-resolution color prints of photographs with superimposed date, and captions with photograph location and defects (if any). The Contractor shall submit three (3) copies of the Report to the City for review at least twenty-one (21) days prior to commencement of proposed construction activities. Each individual inspection report shall include, at a minimum:

   a. General information, including street address or location, name and address of owner, and name(s) of occupant(s), if any.

   b. General description of structure including: type of construction, approximate age, foundation type, presence of basement, and structural materials.

   c. Photographs of the structural elements with close-ups of existing damage, if any. Include color digital photographs, at an image resolution of not less than 1800 x 1200 pixels, in each report, to easily determine subject matter.

   d. Detailed written inspection notes of the interior and exterior of the structures, noting existing cracks, crack widths, crack lengths, displacements, and other evidence of existing damage or structural deficiencies.

Provide electronic copy of the report, and full-resolution files (minimum 4000 x 3000 pixels) of all inspection photographs, in .jpg format. Organize photographs in a logical file folder structure, and label photographs with logical file names to indicate the structure photographed, the location of the photograph, and elements or features photographed.

(d) Daily Reports. Within 24 hours of completion of each day's construction activities, submit to the City a report documenting the day's construction activities and all movement and vibration monitoring data for the day, including the date and times data was recorded. Include a summary of peak recorded daily vibration values at each structure monitored, as well as indications of any apparent movement. Submit a sample daily report to the City for review at least twenty-one (21) days prior to commencement of proposed construction activities.

(e) Damage Notifications. Notify the City immediately if damage to any structure within the monitoring limits is observed or reported that was not present during the pre-construction survey. Assess the damage and its probable cause and report the information to the City's Representative immediately.

If the damage is a result of the Contractor's activities, take all necessary actions to repair the damage to the satisfaction of the City and the property owner, and to prevent additional damage.

(f) Vibration Monitoring Report. Once all vibration monitoring activities have concluded, prepare a Vibration Monitoring Report, including, at a minimum, the following items:

1. A summary of all vibration monitoring activities and readings.

2. A description of instrumentation used to perform the vibration monitoring.

3. A general overview of the vibration-producing equipment and operations utilized by the contractor during construction.

4. A summary table of the valid maximum peak particle velocity recorded each day. The table should include comments denoting any anomalous readings or conditions and notes on the probable cause of the anomalous readings or conditions observed.

5. A summary of actual vibration monitoring locations occupied by the geophones and approximate distances to construction activities, including plans and sketches of the monitoring locations.

6. A list of any vibration-related damage caused as a result of the construction, and the status of damage repairs.

7. The Vibration Monitoring Report shall be signed and sealed by a Professional Engineer or Professional Geologist registered in the Commonwealth of Pennsylvania.

(g) Movement Monitoring Report. Once all movement monitoring activities have concluded, prepare a Movement Monitoring Report, including, at a minimum, the following items:

1. A summary of all movement monitoring equipment, instruments, activities and readings.

2. A list of all monitoring points and instruments read, and plans and sketches indicating their horizontal and vertical locations.

3. Graphs for each point or instrument showing movements versus time, with annotations where significant movements are noted. Where movements are noted, include an explanation as to the likely cause of the movements.

4. Descriptions of any measures taken during the course of construction to prevent movements, and to correct movements where threshold movement values were exceeded.

5. A list of any movement-related damage caused as a result of the construction, and the status of damage repairs.

6. The movement monitoring report shall be signed and sealed by a Professional Engineer registered in the Commonwealth of Pennsylvania.

(h) Post-Construction Inspection Report

Include photographs, visual inspection report, and record of all measurements required to assess the post-construction position and condition of the monitored structures. Submit three (3) copies of the report to the City for review no later than twenty-one (21) calendar days after completion of each construction activity

which generates vibration in the vicinity of the monitored structures. The Post-Construction Inspection Report shall be in the same format as the Pre-Construction Inspection Report, with the following additions:

a. Summary of monitored features noting any changes or damage, or the absence of change or damage, to the monitored structures.

b. Photographs taken at the same location and from the same distance and vantage point as those taken for the Pre-Construction Inspection Report. If applicable, note any changes or damage captured in the photographs.

c. In the case of change or damage to the monitored structures, discuss the cause of the change or damage, any remedial action proposed by the Contractor, and the current status of any remedial actions.

d. Submit an electronic copy of the report, and full-resolution files (minimum 4000 x 3000 pixels) of all inspection photographs, in .jpg format. Organize photographs in a logical file folder structure, and label photographs with logical file names to indicate the structure photographed, the location of the photograph, and elements or features photographed.

(i) Monitoring Requirements

1. Obtain baseline survey readings of movement monitoring points, and baseline readings of other movement monitoring instruments, at locations to be monitored during construction. Submit baseline readings to the City a minimum of three (3) business days prior to commencing construction activities. Provide at least three (3) sets of readings, with readings taken at intervals of at least 24 hours apart. For monitoring points or instruments that cannot be installed until after construction has commenced, submit baseline readings within five (5) calendar days of the installation of the points or instruments.

2. Vibration and Movement Monitoring

   a. Threshold Values and Limiting Values for peak particle velocities (or peak accelerations, if recommended) at structures shall be as indicated in the approved Vibration and Movement Monitoring Plan, or as modified by the City's Representative based on site-specific conditions.

   b. Threshold Values and Limiting Values for the movement monitoring points shall be as indicated in the approved Vibration and Movement Monitoring Plan, or as modified by the City's Representative based on site-specific conditions.

   c. Install seismographs at approved locations prior to commencing vibration-producing construction operations. Install the seismograph geophones at or directly adjacent to the approved survey points. Move seismograph locations as required by changes in construction activities and as approved by the City.

   d. Perform vibration monitoring at approved locations continuously during construction operations.

   e. Movement monitoring points, including but not limited to surface monitoring points and optical survey points, shall be monitored prior to and during the construction activities. Monitor all survey points at least twice daily on days when construction is taking place; once at the start of the workday, and once at the end of the workday. Continue monitoring accessible monitoring points and instruments for a minimum of 1 week after completion of construction activities.

f. Seismographs should be configured to operate in a continuous mode capable of displaying peak particle velocity measurements in a bar graph. Measurement intervals should not exceed 15 seconds during vibration-producing construction operations.

g. Take necessary precautions to prevent damage and disturbance to the survey points, seismographs, and other instruments during the duration of the project. Replace points or equipment damaged or vandalized during the life of Contract at no cost to the City.

h. Perform construction operations and vibration and movement monitoring in accordance with the approved Vibration and Movement Monitoring Plan. Changes to the plan must be approved by the City prior to implementation.

i. The Vibration and Movement Specialist shall interpret the collected data, including making correlations between instrumentation data and specific construction activities. For specific instrumentation used for the protection of existing structures, the instrumentation data shall be evaluated to determine whether the response to construction activities is accurately captured, or if additional monitoring instrumentation is required.

j. If a vibration or displacement monitoring Threshold Value is reached, the Contractor shall immediately stop work and contact the City to discuss appropriate response actions required, if any, so that a Limiting Value is not exceeded. No work shall be performed within 200 feet of the affected structure until the City has reviewed and approved the Contractor's proposed response action. If required, the Vibration and Movement Specialist shall install additional instrumentation, as directed by the City.

k. Damage due to the Contractor's construction activities is the sole responsibility of the Contractor and shall be repaired to the satisfaction of the City and the affected property owner. Any construction-related damage shall be repaired by the Contractor at no cost to the City

IV MEASUREMENT AND PAYMENT – Lump Sum

Includes all labor, materials, and equipment to perform operations as described above.

ITEM 9000-0028 – TEMPORARY STORAGE PODS

I. DESCRIPTION—The work under this Item shall include installing and removal of temporary storage pods for residential houses on Nassau Road, Philadelphia, Pennsylvania where existing garages will be removed and replaced.

This work is to coordinate and obtain required approvals for size of the pod required for this project.

Factors to be considered when deciding on the amount and nature of storage required.

- Physical properties: The contents for storage of the garage being replaced.
- Organization: The available location for pod location.
- Protection: The necessary protection for durable and non-durable material and components from damage.
- Security: Guarding against theft and vandalism.
- Lighting: Storage facilities to provide adequate lighting.
- Ventilation: Storage facilities to provide adequate ventilation.
- Weatherproof: Ensure that the storage pods is weatherproof with a minimum ceiling height of 8 feet.

Property Owner	**Address**
DARMON LLC	6122 Nassau Rd
BERNICE H/W PENNY FRED JR	6124 Nassau Rd
KEITH P.MORRIS AND DIANA MORRIS	6126 Nassau Rd
BURTON BARBARA B	6128 Nassau Rd
LYDE MARCIA A	6130 Nassau Rd
SZENSKO ANDREA M	6132 Nassau Rd
LONG NEIZ	6134 Nassau Rd
RAMONA DE REEF TR	6138 Nassau Rd
DEREEF RAMONA	6140 Nassau Rd
JACKSON BEATRICE J.	6142 Nassau Rd
SAUNDERS DOUGLAS, BELL-SAUNDERS DEBRA	6146 Nassau Rd

II. CONSTRUCTION—

- Contractor shall identify the location and size of space to be allocated and should be planned carefully as part of an overall site layout plan.
- Contractor shall ensure the pods are installed on a level ground. If required, the contractor shall prepare the even surface to allow the installation of pods.
- Provide and maintain a safe and secure storage space for the exclusive use of the respective property owner as listed, until no longer required, at a location within or in the immediate vicinity of the property and approved by the owner and engineer on record.
- If the temporary storage area is outside the owner's ROW, secure necessary permits from the respective owner or agency, and remove the structure when directed by the engineer on record.
- Ensure that the storage pods doors have locks. Provide the keys to the owner.
- Ensure that the temporary storage pods have storage capacity equal to the capacity of the garage being demolished.

III. MEASUREMENT AND PAYMENT— EACH

Cost for installation and removal of temporary storage pods and permits from the City of Philadelphia are incidental to this item.

ITEM 9000-0029 – UNFORESEEN REPAIRS

I. DESCRIPTION-

This work is the construction of unforeseen repairs to the properties and existing facilities, along Jefferson Street and Nassau Road within the project limits during construction of the project.

II. MATERIAL-

In accordance with applicable sections of Specifications Publication 408/2020 as directed by the City.

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III. CONSTRUCTION-

Construct unforeseen repairs as directed by the Representative in accordance with the Special Provisions and Publication 408/2020. Concrete/masonry repairs may include repairs to the exterior walls of properties. Work is to be completed in accordance with the timeline determined by the City.

Repairs to existing facilities may include repairing existing drainage, vents, and connections as needed.

Construction should not begin until the work is authorized by the City. A time extension to the contract will not be granted based solely on performing work under this item.

(b) MEASUREMENT AND PAYMENT - DOLLAR

The proposal will include an item and indicate a predetermined amount of money for this item. This contract item will have a unit of measure of DOLLAR, a unit price of $1.00, and a quantity equal to the predetermined amount.

Due to the contingent or unpredictable nature of the work being performed, the provisions of Section 110.02(d) are not applicable to this item.

Measured by determining the actual amount of equipment, tools, labor, and work involved to acceptably perform the work and paid for under this item as follows:

(a) Negotiated Price. At an agreed upon price. This price will be agreed upon with the City before performing the work.

(b) Force Account Basis. Section 110.03(d).

ITEM 9000-0030 – 6’ WHITE VINYL FENCE

I. DESCRIPTION –

This work is the furnishing and installing a 6’-0” high, white, vinyl fence, including all accessories and hardware, and construction of concrete footers for the fence posts, as indicated on the plans and specified.

II. MATERIAL –

(a) Fence – Provide one of the following

1. Freedom Emblem
    i. Fence Model # 73013949
2. Veranda Linden
    i. Fence Model # 73014713
3. Or approved equal

(b) Other Material.

- Class A Cement Concrete – Section 704
- Caulking Compound – Section 705.7

II. CONSTRUCTION –

As indicated per the plans and manufacturers specifications.

III. MEASTUREMENT AND PAYMENT – Linear Foot

Includes fence installation, post installation, materials, excavation, subgrade compaction, and all else necessary to provide a complete installation.

ITEM 9203-0101 – TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEM

I. DESCRIPTION –

This work is the design and construction of a temporary excavation support and protection system or appropriately designed open cut excavation to assist construction of the proposed reinforced cast-in-place concrete retaining wall as indicated on the project plans, with a service life of greater than or equal to 36 months.

II. MATERIAL –

Provide certification or laboratory test results verifying material properties. For used steel, the salvage design values from AASHTO Guide Design Specification for Bridge Temporary Works (AASHTO Guide Spec) may be used as an alternate to testing to determine grade of steel. Materials need not be new but must be in serviceable condition as determined by the Engineer. Temporary material used does not have to be from a Bulletin 15 source, but must meet the more restrictive requirements of either the City of Philadelphia, L&I and the following:

- Structural Steel.....….....AASHTO M 270M/270 (ASTM A709M/A709) Grade 250(Grade 36),
  Grade 345(Grade 50) or Grade 345W(Grade 50W)
- Steel Sheet Piling..…… .....ASTM A328M/A328, ASTM A572M/A572
- Steel H-Piles.....….. .....AASHTO M 270M/270 (ASTM A709M/A709), Grade 250(Grade 36)
- Wood Lagging....…..... ...Rough Cut Species in AASHTO Guide Spec
  Appendix A and AASHTO Construction Handbook for Bridge Temporary Works Appendix C
- Cement.....…….....AASHTO M85 and AASHTO M240
- Pre-Stressing Steel..…... .ASTM A416 Grade 270
- Welded Wire Fabric..... ..AASHTO A55 (ASTM A185)
- Reinforcement Bars..... ....AASHTO M 31M/31 (ASTM A615M/A615), AASHTO M42M/M42 (ASTMA616M/A616),Grade420(Grade 60)
- Other Material....….....In accordance with applicable Sections of Publication 408

III. DESIGN –

Design the temporary excavation support and protection system in accordance with current AASHTO Bridge Design Specifications and Design Manual, Part 4 Specifications, current FHWA guidelines and AASHTO Guide Spec. Design temporary excavation support and protection system for final condition and all construction conditions, including surcharge loads due to construction equipment. Submit electronic copies of design calculations and completed detailed drawings, signed and sealed by a Professional Engineer, registered in the Commonwealth of Pennsylvania to the City for review. Include in the design calculations all material properties, design loads, design assumptions, and estimated deflection of the system. Include on the completed detailed drawings all design dimensions, limits of work, elevations, material, member sizes and construction sequence. Include specific installation procedures and testing requirements as part of the submittal. Allow 21 calendar days for the review submission and each submission as needed by the City. Ensure that temporary excavation support and protection system design and construction conforms to the following:

a) Open cut excavations are allowed, provided they meet OSHA requirements, movements associated with the excavation do not damage adjacent structures, utilities, sidewalks, or other facilities; and the safety of the public and existing structure is assured. Submit slope stability analysis in accordance with Publication 293.

b) The temporary excavation support and protection system will be selected by the Contractor. Examples include anchored walls, braced walls, cantilever walls, and soil nailed walls. These systems may be comprised of one or more of the following: Soldier Pile and Timber Lagging, Micropile and Timber Lagging, Steel Sheet Piling, Secant Piles, Tiebacks, Soil Nails, Shotcrete, Deadman Anchors, Wales, Raker Braces, Concrete Reaction Blocks, or other methods.

c) The following preliminary soil and rock parameters are assumed for use in designing the temporary excavation support and protection systems. Soil and rock properties may vary across the site. The Contractor's Design Engineer is responsible for selecting the final soil and rock parameters for their design.

a. Effective angle of friction 32 degrees
b. Moist unit weight of soil 115 pcf
c. Saturated unit weight of soil 120 pcf
d. Effective cohesion 0 psf
e. Static groundwater level at elevation N/A
f. Undrained shear strength of cohesive soil 0 psf
g. Shear strength for rock mass N/A

1. It is the responsibility of the Contractor's Design Engineer to fully characterize the relevant site subsurface conditions, and to perform any needed additional subsurface investigation and testing, prior to completion and submission of the temporary shoring calculations and drawings. The Contractor's Design Engineer is fully responsible for selecting the final soil and rock parameters to be used in the design of the temporary excavation support and protection system. Present the selected parameters, along with all supporting subsurface information, for review and approval as part of the calculations package.

2. Ensure that all components stay within the legal right-of-way unless an easement is obtained by the Contractor.

3. Contractor shall select appropriate means and methods to ensure that the temporary excavation support and protection system can be installed through any potential subsurface obstructions.

IV. CONSTRUCTION –

Install temporary excavation support and protection system in accordance with applicable sections of Publication 408. Treated wood is not required unless it is within 6 feet of finish grade and is to remain in place. Pressure treat with chromate copper arsenate (CCA) to refusal. Monitor horizontal and vertical movements of existing structures during installation of temporary excavation support system. Vibrations from installation of temporary excavation support system shall not cause damage to existing structures. A Professional Engineer, registered in the Commonwealth of Pennsylvania, shall certify that the temporary excavation support system has been installed as shown on the Professional Engineer's signed and sealed drawings. Submit the certification to the City within 3 working days of completion of the system. Cutoff and remove all shoring and bracing to a depth of 3 feet below final grade and remove cut off pilings from the site. Micropiles left in place shall be filled with grout as part of abandonment.

The Contractor is responsible for any and all damage related to the installation, maintenance, removal, and performance of the temporary excavation support and protection system, including damages resulting from any ground movements related to installation and performance of the system

V. QUALIFICATIONS –

The work must be supervised by a superintendent or foreman who is experienced, in the construction of temporary excavation support and protection system proposed. If the design height of the temporary excavation support and protection system exceeds 20 feet, provide the following with the design submission:

- For the superintendent or foreman who will supervise the work, submit a list containing at least 5 projects which demonstrate a minimum of 3 years experience in the construction of the temporary excavation support and protection system proposed. Include a brief description of each project and the name and phone number of the owner's representative knowledgeable in each project listed.
- The name of the Professional Engineer, registered in the Commonwealth of Pennsylvania and having at least 3 years experience in the design and construction of temporary excavation support and protection systems, who will design and specify the sequence of construction of the temporary excavation support and protection of system.

VI. MEASTUREMENT AND PAYMENT –

- This item will be measured and paid for in a proportionate manner, designated by the City.
- If an acceptable open cut excavation is provided in lieu of the temporary excavation support indicated, payment will be made for the as-bid lump sum temporary excavation support item, but no additional payment will be made for any class of excavation, structure backfill or additional shoring as a result of the open cut excavation or to restore the facilities to their original condition.

ITEM 9860-0001 – COMPOST SOCK INLET PROTECTION FOR PWD OPEN MOUTH INLET

II. DESCRIPTION –

This work is the furnishing, maintaining, and removal of storm inlet protection of the type indicated.

III. MATERIAL –

- Compost Filter Sock – Section 867.2

IV. CONSTRUCTION –

Install compost filter sock in accordance with manufacturer's recommendation. Inspect sock after each runoff event to ensure that the sock continues to function properly. Replace of remove and clean sock when sediment has accumulated and when needed. Upon final stabilization of tributary area, when directed, remove sock in a manner satisfactory to the Representative. Dispose of sock and sediment in a manner satisfactory to the Representative.

V. MEASTUREMENT AND PAYMENT – Each

ITEM 9901-2006 – REIMBURSEMENT OF PGW GAS MAIN RELOCATION

I. DESCRIPTION –

This work is reimbursement of the Philadelphia Gas Works (PGW) for their relocation of a 3" gas main in the Nassau/Jefferson alley prior to removal of garages, metal landings, decks, temporary sheeting and demolition of the existing retaining wall.

II. MATERIAL –

None.

IV. CONSTRUCTION –

Notify PGW a minimum of four (4) weeks in advance of the installation of temporary sheeting and demolition of the existing retaining wall behind the four apartment buildings on Nassau Street. Contact Kevin Diep (215) 684-6235.

Review all invoices with the Representative. Pay PGW within 30 days of receipt of all PGW invoices associated with the 3" gas main relocation.

V. MEASTUREMENT AND PAYMENT – Dollar

The proposal will indicate a dollar amount of money for this item. Payment will be on a force account basis in accordance with Section 110.03(d) 4. Services by others.