SPECIFICATION

SOFFIT REPLACEMENT
NJDOT BEDMINSTER MAINTENANCE YARD
SOMERSET COUNTY, NJ 07921
PROJECT No. T0681-01

STATE OF NEW JERSEY

Honorable Philip D. Murphy, Governor
Honorable Sheila Y. Oliver, Lieutenant Governor

DEPARTMENT OF TRANSPORTATION
Diane Gutierrez-Scaccetti, Commissioner

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OCTOBER 3, 2022
FINAL DESIGN

October 11, 2022
Permit/Bid

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SECTION 01 11 00
SUMMARY

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including Instructions to Bidders, General Conditions, and other Division 1 Specification Sections, apply to this Section.

1.2 SCOPE OF WORK

A. The Objective of this Project is to install a new metal soffit along four (4) elevations of Maintenance Garages at the NJDOT Bedminster Maintenance Yard. The work includes the following:
   1. Preparation and painting of existing metal surfaces.
   2. Installation of new structural metal studs and fasteners.
   3. Installation of new metal soffit materials.
   4. Installation of new Joint Sealants along edges of new metal soffit materials.

B. The construction duration for the Project is sixty (60) calendar days from the issuance of the NTP by the State.

1.3 WORKING HOURS

A. The Project work hours are 7:30 AM to 4:00 PM weekdays. No work will be permitted on weekends or State Holidays.
B. The work hours include all cleanup and exiting of the site.

1.4 HAZARDOUS AND REGULATED MATERIALS

A. It is not anticipated that hazardous, or regulated material, will be encountered in the performance of the work. The Contractor shall not disturb any material that cannot be readily identifiable by workers performing the construction on the site. If suspect, or hazardous, material is encountered, suspend all work in the area and notify the Architect immediately.

PART 2 – MATERIALS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 01 30 00
ADMINISTRATIVE REQUIREMENTS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including Instructions to Bidders, General Conditions, and other Division 1 Specification Sections, apply to this Section.

1.2 CONFLICTS OR DISCREPANCIES AMONG CONTRACT DOCUMENTS

A. In the event of conflicts or discrepancies among Contract Documents, interpretations will be based on the following priorities:
   1. The Agreement;
   2. Bulletins, with those of later date having precedence over those of earlier date;
   3. The General Conditions of the Contract for Construction; and
   4. Drawings and Specifications

B. In the case of any inconsistency between Drawings and Specifications, or within either document not clarified by Bulletin, the better quality or greater quantity of work shall be provided in accordance with the Architect's interpretation.

1.3 INTERPRETATION OF DRAWINGS AND SPECIFICATIONS

A. The annotated drawings are intended to convey the Scope of Work and indicate the general requirements of work and shall not limit the repairs required.
B. Examine the areas and conditions where work is to be performed and notify the Architect of conditions detrimental to proper and timely completion of the work. Do not proceed with work until detrimental conditions have been corrected.
C. Dimensions on drawings are for design only. Do not scale drawings for dimensions.
D. The Contractor is entirely responsible for field checking and verifying all measurements before commencement of work, and is entirely responsible for the correctness of his measurements.
   1. Before ordering any material, and prior to doing any work, take or verify all measurements at the building as may be required for the proper fitting of work to the building or to other adjoining work.
   2. Satisfactorily correct, without charge, any work which does not fit.

PART 2 – MATERIALS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 01 32 16
CONSTRUCTION PHASING AND PROGRESS SCHEDULE

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including Instructions to Bidders, General Conditions, and other Division 1 Specification Sections, apply to this Section.

1.2 CONTRACT COMPLETION

The work under this Contract shall be completed within **Sixty (60) calendar days** from the issuance of the Notice to Proceed.

1.3 PROJECT SCHEDULE

A. The Contractor shall submit a Baseline Construction Schedule (no CPM) meeting the requirements of the General Conditions within seven (7) calendar days of the Notice to Proceed to the Architect, for review and approval.
B. If the Project should fall behind schedule, provide a complete revised recovery schedule when requested by the Project Manager.

PART 2 – MATERIALS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 01 35 00
SPECIAL PROJECT PROCEDURES

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including Instructions to Bidders, General Conditions, and other Division 1 Specification Sections, apply to this Section.

1.2 CLEAN-UP

A. The Contractor is responsible for all clean-up and debris removal and disposal on a daily basis, including nails and fasteners. Utilize magnets to retrieve any and all nails, screws, and other metal debris. At the end of each workday, and prior to exiting the Facility, the Contractor shall clean-up the grounds below and adjacent to the work areas, screening for, and removing any and all any construction debris.

1.3 SITE PROTECTION

A. Protect adjacent finishes from damage. Repair any damages created by the work.

1.4 SITE ACCESS

A. The Contractor shall coordinate with the Facility Supervisor for access to the building throughout the course of the work.

1.5 SITE RESTORATION

A. At the completion of construction, restore any and all walkways, driveways, lawns, or plantings, damaged by construction activity.

1.6 STAGING AND STORAGE

A. Store construction materials and equipment only in locations approved by the Facility. Full dumpsters shall be removed at the end of the workday.

1.7 ENTRANCES AND EXITS

A. All entrances and exits shall remain accessible throughout construction. The work shall not block the entrances to the Building.

PART 2 – MATERIALS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 01 41 00
QUALITY REQUIREMENTS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including Instructions to Bidders, General Conditions, and other Division 1 Specification Sections, apply to this Section.

1.2 SUPERVISION

A. Provide day-to-day site supervision through an approved Site or Project Superintendent who uses English as their primary language. Work will not be permitted to be performed, including Subcontractor work, without the approved Superintendent present, including any subcontractor work. The Superintendent may participate in the construction work (working Superintendent)
B. Assure that site supervision, crafts-persons, and subcontractors are knowledgeable and experienced in their portion of the work and know and understand the specified requirements and methods needed for performance of the work.

1.3 SITE MAINTENANCE

A. Clean construction and adjoining areas daily and remove debris, legally disposing of all materials.
B. Store materials and equipment in closed lockable containers at locations designated by the Owner.
C. Dumpster and container locations shall be approved by the Owner. Full dumpsters are not permitted to remain in the Facility overnight and must be removed at the end of the workday.

1.4 WARRANTIES

A. The Contractor warrants to the NJDOT and Architect that materials and equipment furnished under this Contract will be good quality, new, and that the work will be free of defects for a period of one (1) year from the date of final acceptance and will conform to the requirements of the Contract Documents.
B. Provide Soffit System Manufacturer's 20-Year Finish warranty per Section 07 41 00.
C. All warranties shall be effective from the date of Substantial Completion by the State. Warranties must be signed by an authorized representative of the issuing company. Refer to individual Specification Sections for specific product warranty requirements.

PART 2 – MATERIALS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 01 41 13
REGULATORY COMPLIANCE

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including Instructions to Bidders, General Conditions, and other Division 1 Specification Sections, apply to this Section.

1.2 SITE SAFETY

A. The Contractor is solely responsible for all site safety and compliance with OSHA regulations.
B. The Contractor shall inspect and assure compliance with all statutory requirements for worker protection and safety. The Contractor shall provide, inspect, and assure that all workers utilize appropriate worker protective and safety gear.
C. Instruct workers and inspectors in the proper use of all protective and safety equipment.

1.3 CODES, PERMITS, AND INSPECTIONS

A. Codes: The work described by these Contract Documents shall be accomplished in strict accordance with the New Jersey Uniform Construction Code, Rehabilitation SubCode, and in full compliance with the following Codes as applicable:

- INTERNATIONAL BUILDING CODE, NEW JERSEY EDITION 2018
- NATIONAL ELECTRICAL CODE 2017

B. Permits: U.C.C. Plan Review has been completed. The Contractor must complete the Sub-Code Technical Sections of the permit application after award of the construction contract and return to the Construction Project Manager. The Construction Permit will be issued by DCA. There will be no costs to the Contractor for these permits.
C. Inspections: All construction inspections will be provided by DCA and shall be coordinated through the Construction Project Manager.

PART 2 – MATERIALS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 01 61 00
PRODUCT REQUIREMENTS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including Instructions to Bidders, General Conditions, and other Division 1 Specification Sections, apply to this Section.

1.2 SUBMITTAL PROCEDURES

A. The Contractor shall provide all submittals required by the Specifications. The Contractor shall also supply evidence by separate submittals that materials and equipment to be supplied meet the requirements of the Specifications.
B. DPMC 12/13: This form is to be used for submission and approval of all subcontractors, materials to be utilized in the construction, manufacturers/suppliers, and for professional services. Complete the Contractor Section as follows:
    1. ***Submission Type:*** The Contractor is to place a check mark in the appropriate block(s) that applies to the submission.
    2. ***Trade:*** The Contractor is to place a check mark in the appropriate block that identifies the trade related to the submission.
    3. ***Contractor Name:*** The Prime Contractor submitting the form inserts his company name in the space indicated.
    4. ***Description of Submittal:*** The Prime Contractor is to give a brief description of the submittal.
    5. ***General Condition, Specification or Drawing section***: The Contractor is to identify the Article, Spec Section or Drawing that represents the submission type, i.e., Article 4.11.2 Sleeve & Opening Drawing, Spec Section 11 55 75 Condensate Pump, Drawing FP2.2 Ames Backflow Preventor.
    6. ***Vendor/Manufacturer/Supplier/Subcontractor:*** The Prime Contractor is to insert the name, address, and telephone number of the vendor/manufacturer/supplier or subcontractor for which he is requesting approval. (When required, insert the license number and registration number in the space provided, attach a copy of said license and certification.). Submittals are not required for Listed Subcontractor's (Those listed on the Bid Proposal Form).

C. The A/E will prepare and submit a submittal log identifying all required submittals and distribute the log at the pre-construction meeting. Contractor may provide additional submittals in addition to those listed on the log.
D. All submittals shall be made electronically. Utilize the electronic version of the DPMC 12/13 form and add additional pages containing the submittal data or drawings in a single .PDF file. The file name shall contain the Project Number tracking number and the submittal name, i.e. "T0681-01 - 3001 Concrete Design Mix.pdf". Submittals shall be emailed to the A/E. The Subject line of the e-mails shall contain the Project number, submittal tracking number, and submittal description.
E. A/E approved submittals will be emailed to the Contractor and the Project Manager. The Contractor will print a copy of the A/E approved submittal and maintain on the construction site.
F. A/E rejected copies will be emailed to the Contractor.
G. Submission of shop drawings, manufacturer's specifications, installation instructions, material diagrams and samples shall be accompanied by the Contractor's transmittal form and DPMC form 12/13 as outlined in paragraph B of this section. **Where printed material describes more than one product or model, clearly identify which is to be furnished**.
H. Product Data:
    1. Submit only pages which are pertinent; mark each copy of standard printed data to specifically identify only pertinent products; identify each submittal by designated submittal reference number. Show standards, performance characteristics, and capacities; wiring and piping diagrams; controls; component parts; finishes; dimensions; and require clearances.

I. ALL submittals shall be made within fourteen (14) calendar days of the Notice to Proceed.

K. Enforcement of Submittal Requirement:
   1. The Contractor will be required to provide shop drawings, testing, laboratory test reports, product samples and test installations in order to establish acceptable standards of workmanship.
   2. The requirement for submittal and review of all specified shop drawings, test, product samples and test installations will be rigorously enforced. General work of each section shall not commence prior to required review. All work conducted prior to the review of required submittals, including test installation, is subject to rejection by the Architect. All rejected work shall be removed and replaced by the Contractor at no additional expense to the Owner.

L. Contractor's Examination of Submittals: Prior to forwarding submittals to the Architect, the Contractor shall:
   1. Review submittals to verify quantities, field measurements, field construction criteria, assembly and installation requirements, manufacturer's catalog numbers, and conformance of submittals with requirements of Contract Documents.
   2. Review each submittal to determine that it is acceptable in terms of the means, methods, techniques, sequences and operations of construction, and in terms of safety precautions, all of which are the contractor's sole responsibility.
   3. Clearly call to the Architect's attention any submittal that varies from what the Contract Documents have called for. Notify the Architect in writing at time of submittal of any deviations from requirements of Contract Documents.
   4. Clearly identify the products or product data which are pertinent to this Project. Clearly mark through or delete all information which is not applicable.
   5. Stamp and sign each submittal to certify that the Contractor has checked for completeness and compliance with requirements of the contract documents and that the submittal has his/her approval.
      a. The stamp shall state: "I certify that I have reviewed the above submittal and have verified that products, field dimensions, quantities, and field construction criteria comply with and have been coordinated with the requirements of Work and Contract Documents".
      b. Samples or submittals which in the opinion of the Architect have clearly not been checked for compliance by the Contractor will not be reviewed and it will be the responsibility of the Contractor to arrange for return of such submittals.

   6. Do not fabricate products or begin work which requires submittal review until return of submittal with Architect's acceptance. Work begun or completed prior to the Architect's review of required submittals is subject to rejection. Remove and replace rejected work at no additional cost to the Owner.

M. Architect's Review:
   1. Allow ten (10) days for Architect's review of each submittal. Daily allowance is time in possession of Architect and exclusive of delivery from and to Contractor and exclusive of resubmissions.
   2. The Architect's review is limited to aesthetics, general conformance with the project design intent, and general compliance with information contained in Contract Documents. The Architect's review is neither a verification of Contractor's examination nor a substitution of Contractor's responsibilities. Architect may inform Contractor of any conspicuous errors on a submittal without prejudice to being held harmless to Contractor's examinations and responsibilities.
   3. Upon review, any action shown by the Architect is subject to the requirements of the plans and specifications. The Architect's review does not authorize changes in contract requirements unless a separate written directive or change order is issued. The Contractor is responsible for conforming and correlating all quantities and dimensions, selecting fabrication processes and techniques of construction, coordinating his or her work with that of all other trades, and performing all work in a safe and satisfactory manner.
   4. **The Architect will not review:**
      a. Any submittal which is not called for by the contract documents or not requested in writing by the Architect.

b. Any submittal which does not bear the Contractor's stamp and signature certifying that he has checked the submittal for completeness and compliance with the contract documents and that the submittal has his/her approval.
c. Any submittal which does not bear the project name and contract number and the contractors, subcontractors, and suppliers names, addresses, and phone numbers.
d. Any submittal which does not clearly identify pertinent product (if more than one are shown). Clearly mark through all information which is not applicable.

N. The Contractor shall be required to make submittals, revise and resubmit as required and establish compliance with the specified requirements requested in all sections of these Technical Specifications that are a part of this Contract Document. These submittals include but are not limited to shop drawings, manufacturer's literature, samples, colors, mock-ups, inspection reports, certifications, and delivery receipts.
O. It is also the Contractor's responsibility, when so required by the Contract Documents or by written request from the State, to deliver all required proof that the materials or workmanship, or both, meet or exceed the requirements of the specifically named code or industry standard.
P. The Contractor shall not be relieved of responsibility for deviations from requirements of the Contract Documents by the Architect's approval of Shop Drawings, Product Data, Samples, or similar submittals unless the Contractor has specifically informed the Architect in writing of such deviation at the time of the submittal and the Architect has given approval of the specific deviation. The Contractor shall not be relieved of responsibility for errors or omissions in the Shop Drawings or similar submittals by the Architect's approval thereof.

1.3 SUBSTITUTIONS

A. Contractor's proposed substitutions shall be made within seven (7) calendar days from the Notice to Proceed. After that time has expired no substitutions will be considered by the State. Substitution submittals that are incomplete will be rejected. No substitution of the specified dome roof panels will be accepted.
B. Every substitution shall be accompanied with a certification from the Contractor that they have personally investigated the proposed substitution and that it meets or exceeds the specified item.
C. Every substitution must be accompanied with a credit change order.
D. Implied substitutions are not acceptable.

PART 2 – MATERIALS (NOT USED)

PART 3 – EXECUTION (NOT USED)

END OF SECTION

SECTION 01 78 00
CLOSEOUT SUBMITTALS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including Instructions to Bidders, General Conditions, and other Division 1 Specification Sections, apply to this Section.

1.2 AS-BUILT DRAWINGS

A. The Contractor is required to maintain an updated set of "as-built" drawings on-site throughout the course of the Project in accordance with requirements set forth in the Instructions to Bidders and General Conditions.
B. Complete construction As-Built drawings, certified by the Contractor as complete to the best of his knowledge, must be provided at the completion of the Project. This submission may be hardcopy in full size, or PDF.

1.3 WARRANTIES

A. Provide fully executed, signed, and dated, warranties to the NJDOT through the Architect. Include all manufacturer's warranties, signed by their authorized representative, and the Contractor's overall Project 1-year warranty per Section 01 41 00.

PART 2 – MATERIALS (NOT USED)

PART 3 – EXECUTION (NOT USED)

SECTION 02 41 13
SELECTIVE DEMOLITION

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including Instructions to Bidders and General Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the removal and disposal of materials and waste as required to complete the Project Scope.

1.3 QUALITY ASSURANCE

A. Comply with all applicable requirements of the State of New Jersey and applicable County ordinances and regulations concerning management of demolition and disposal of debris.

1.4 PROTECTION

A. Protect existing foundations, buildings and infrastructure which are to remain after the work in this Section is completed. Repair items, which are to remain, and which were damaged during the performance of the work to their original condition or replace with new.

PART 2 – PRODUCTS - NOT USED

PART 3 – EXECUTION

3.1 STRUCTURE

A. Demolition and construction debris shall be removed from the construction area daily or placed in dumpsters, which must be removed from the site when filled.
B. During demolition operation take precautions to avoid damaging any active water supply lines, structural components, electrical components, HVAC components, or existing construction scheduled to remain.

3.2 DISPOSITION OF MATERIAL

A. Immediately relocate, recycle, or dispose of all other demolished material away from site.
B. Except where specified in other Sections, all materials and equipment removed and not reused, becomes property of the Contractor, and shall be removed from the property. Title to materials, resulting from demolition, and materials and equipment to be removed, is vested in the Contractor.
C. Disposal of Rubbish and Debris: Dispose of all rubbish and debris in accordance with the requirements specified herein and in accordance with applicable laws and ordinances.

END OF SECTION

SECTION 05 41 00
STRUCTURAL METAL STUD FRAMING

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including General Conditions, and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. The work under this Section includes the supply and installation of structural metal stud framing.

1.3 SUBMITTALS

A. General: Submit the following in accordance with conditions of Contract and Section 01 61 00.
B. Product data and installation instructions for each item of cold-formed metal framing and accessories.
C. Shop drawings for special components and installations not fully dimensioned or detailed in manufacturer's product data.
D. Include placing drawings for framing members showing size and gage designations, number, type, location and spacing. Indicate supplemental strapping, bracing, splices, bridging, accessories, and details required for proper installation.

1.4 QUALITY ASSURANCE

A. Welding: Use qualified welders and comply with American Welding Society (AWS) D1.3, "Structural Welding Code -Sheet Steel".

PART 2 – PRODUCTS

2.1 MANUFACTURERS

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated in the work include but are not limited to the following:
    1. Clark-Dietrich
    2. Superior Steel Studs, Inc.
    3. USG Industries
    4. United States Steel
    5. Approved Equal

2.2 METAL FRAMING

A. System Components: Manufacturers' standard joists of type, size, shape, and gauge as indicated on the Construction Drawings. With each type of metal framing required, provide manufacturer's standard clip angles, shoes, reinforcements, fasteners, and accessories for applications indicated, as needed to provide a complete metal framing system.

2.3 MATERIALS AND FINISHES

A. For 16-gauge and heavier units, fabricate metal framing components of structural quality steel sheet with a minimum yield point of 50,000 psi; ASTM A 446 or A 570.
B. For 18-gauge and lighter units, fabricate metal framing components of commercial quality steel sheet with a minimum yield point of 33,000 psi; ASTM A 446 or A 570.

C. Provide galvanized finish to metal framing components complying with ASTM A 525 for minimum G 60 coating.
D. Finish of installation accessories to match that of main framing components, unless otherwise indicated.
E. Fasteners: Provide nuts, bolts, washers, screws, and other fasteners with corrosion-resistant plated finish.
F. Galvanizing Repair: Where galvanized surfaces are damaged, prepare surfaces and repair in accordance with procedures specified in ASTM A 780.
G. Electrodes for Welding: Comply with AWS Code as recommended by stud manufacturer.

2.4 FABRICATION

A. General: Framing components may be fabricated into assemblies before erection. Fabricate panels plumb, square, true to line, and braced against racking with joints welded. Perform lifting of prefabricated units to prevent damage or distortion.
B. Fabricate units in jig templates to hold members in proper alignment and position and to assure consistent component placement.
C. Fastenings: Attach similar components by welding. Attach dissimilar components by welding, bolting, or screw fasteners, as standard with manufacturer.
D. Wiring tying of framing components is not permitted.
E. Fabrication Tolerances: Fabricate units to a maximum allowable tolerance variation from plumb, level, and true to line of 1/8 inch to 10 feet.
F. Framing components may be preassembled into panels prior to erecting. Prefabricated panels shall be square with components attached in a manner as to prevent racking and to minimize distortion while lifting and transporting.
G. Cutting of steel framing shall be by saw, shear, or plasma cutting equipment only.

PART 3 – EXECUTION

3.1 INSTALLATION

A. General: Install metal framing systems in accordance with manufacturers printed or written instructions and recommendations.
B. Contractor shall refer to installation instructions published by the screw manufacturer and ASTM C954 for minimum spacing and edge distances requirements and torque requirements.
C. Temporary bracing shall be provided until erection is complete and all attached adjacent framing is complete.
D. Splices in axially loaded studs are not permitted.
E. Studs shall be plumbed, aligned, and securely attached to the flanges or webs of both upper and lower tracks.
F. Axially loaded studs shall be installed in a manner which will assure that ends of the studs are positioned against the inside track web, prior to stud and track attachment. Studs shall be squarely cut and positively clamped and positioned until properly fastened.
G. Provision for structure vertical movement shall be provided where indicated on the plans using vertical slide clips or other means. Frame both sides of expansion joints with separate studs; do not bridge the expansion joints with stud system components.
H. Connections shall be by welding, riveting, bolting or other approved fastening devices or methods providing positive attachment and resistance to loosening. Fasteners shall be of compatible material.
I. Field Painting: Touch-up damaged shop-applied protective coatings. Use compatible primer for prime-coated surfaces; use galvanizing repair system for galvanized surfaces.
J. Welded connections shall be performed in accordance with AWS Specification for Welding Sheet Steel in Structures, D1.3.
K. Where splicing of track is necessary between stud spacing, a piece of stud shall be placed between adjacent tracks and fastened by welds or screws to each side of the track, each end.

END OF SECTION

SECTION 07 41 00
PREFORMED ALUMINUM SOFFIT PANELS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including Instructions to Bidders, General Conditions, and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. The work under this Section includes metal soffit installation. All exposed metal faces are to be prefinished.

1.3 RELATED WORK

A. This section covers the pre-finished, pre-fabricated Factory Manufactured Aluminum Soffit System. This includes all metal trim, accessories, and fasteners.
B. Section 07 92 00 - Joint Sealants

1.4 SUBMITTALS

A. Product Data and Installation Instructions: Prior to starting any work, the contractor shall submit copies of manufacturer's literature for each required product. This information shall include product description, applicable quality standards, and installation instructions, and shall conform to the requirements of this specification.
B. Shop Drawings: Submit drawn to scale drawings showing in detail the interconnection between the soffit panels, closure tracks and accessories, including fastenings.
C. Samples: Physical samples of products to be used must be made available, if requested.

1.5 JOB CONDITIONS

A. Coordinate work of this section with interfacing and adjoining work for proper sequencing of each installation. Ensure best possible weather resistance and durability of the work and protect of materials and finishes.
B. Deliver, store, and handle metal soffit materials in accordance with Manufacturer’s requirements.
C. Field Measurements: Verify actual dimensions of construction contiguous with metal roof panels by field measurements before fabricatio

1.6 REFERENCES

A. ASTM - Listed Standards
B. SMACNA - Architectural Sheet Metal Manual
C. NRCA – Roofing and Waterproofing Manual
D. NRCA – Low Slope Roofing Manual
E. Revere Copper Products – Copper and Common Sense

1.7 PRODUCT PERFORMANCE TESTING

A. Soffit System shall be designed to meet Standard Building Code wind load requirements.
B. Soffit System shall be designed to meet the International Building Code, NJ Edition, 2018, and the Soffit System shall have been tested by the Manufacturer per ASTM E-330 and have the applicable Load Tables published from this Air Bag testing for negative loads.

C. Forming: Use continuous and rolling method. No end laps on panels. No "portable roll forming" machines will be permitted on this project; no installer-owned or installer-rented machines shall be permitted. It is the intent of the Architect to provide Factory-Manufactured soffit systems only for this project.

1.8 WARRANTIES

A. Finish warranty: Manufacturer's standard form in which manufacturer agrees to repair finish or replace standing seam metal roof panels that show evidence of deterioration of factory-applied finish within specified warranty period.
B. Warranty Period: 20 Years from the date of Substantial Completion.

PART 2 – PRODUCTS

2.1 METAL SOFFIT MATERIALS

A. Material: Soffit panels shall be 12" wide by 3/8" deep Solid Soffit in color as selected by the NJDOT.
B. Material Requirements: ASTM B-209 quality aluminum, 3105-H14 Alloy and Temper material. Aluminum shall be tension leveled (temper passed and stretcher leveled) with camber of a maximum of 1/4" in 20 feet, manufactured in the USA, and shall be .032" thick aluminum, US standard grade.
    1. Color: Color Selected by Architect
    2. Panel Surface shall be: Solid
    3. Panels shall be Petersen Pac-Clad PAC-850 Solid, or equal by Everlast Metal, ATAS Aluminum, or approved equal.

C. Finishes: Finish shall be Kynar 500 coating with a top side film thickness of 0.70 to 0.90 mil over 0.25 to 0.31 mil prime coat to provide a total dry film thickness of 0.95 to 1.25 mil. Finish shall conform to tests for adhesion, flexibility and longevity as specified by Kynar 500 finish supplier.

2.2 MISCELLANEOUS MATERIALS AND ACCESSORIES:

A. Fasteners: Fasteners shall be 400 series stainless steel, dished washers stainless steel with bonded neoprene.
B. Metal Furring: Where required by design of primary structural framing system, furring shall be used to span between beams and/or other joists. Thermally responsive base and top clips shall be fastened to the furring on 12" centers.
    1. 20 gauge, 7/8” metal furring..

PART 3 – EXECUTION

3.1 PROTECTION FROM CONTACT WITH DISSIMILAR MATERIALS

A. Aluminum: Aluminum surfaces shall not directly contact other metals except stainless steel, zinc, or zinc coating. Where aluminum contacts another metal, paint the dissimilar metal with a primer followed by two coats of aluminum paint. Where drainage from a dissimilar metal passes over aluminum, paint the dissimilar metal with a non-lead pigmented paint.

3.2 FABRICATED UNITS

A. Expansion and Contraction: Provide expansion and contraction joints at not more than 32-foot intervals for aluminum and at not more than 40-foot intervals for other metals. Where the distance between the last expansion joint and the end of the continuous run is more than half the required interval, an additional joint shall be provided. Space joints evenly.
B. Lock Seams: Fabricate sheet metal with either single or double lock seam flat-lock seams.
C. Sealant Joints: Where movable, non-expansion type joints are indicated or required for proper performance of work, form metal to provide for proper installation of elastomeric sealant, in compliance with industry standards.

D. General Metal Fabrication: Shop fabricate work to greatest extent possible. Comply with details shown, and with applicable requirements of SMACNA "Architectural Sheet Metal Manual" and other recognized industry practices. Fabricate for waterproof and weather resistant performance; with expansion provisions for running work, sufficient to permanently prevent leakage, damage or deterioration of the work. Form work to fit substrates. Comply with material manufacturer instructions and recommendations. Form exposed sheet metal work without excessive oil-canning, buckling and tool marks, true to line and levels as indicated, with exposed edges folded back to form hems.
E. Separations: Insulate between dissimilar metals with one of the following bituminous paint, one coat primer, and one coat aluminum paint, caulking compound bituminous plastic cement, asphalt, varnish or approved non-absorptive tape or gasket. Resistance across insulated finish joint shall exceed 55,000 ohms.

3.3 SOFFIT INSTALLATION

A. Requirements: Make surfaces to receive soffit metal plumb and true, clean, even, smooth, dry and free of defects and projections, which might affect the application. For installation of items not shown in detail or not covered by specifications, conform to the applicable requirements of SMACNA ASMM, Architectural Sheet Metal Manual.
B. Provide soffit metal flashings in the angles formed to match and align with existing adjacent flashings. Join soffit metal items together with slip joints with joint sealant.
C. Workmanship: Make lines, arises, and angles sharp and true. Free exposed surfaces from visible wave, warp and buckle, and tool marks. Fold back exposed edges neatly to form a 1/2-inch hem on the concealed side. Make soffit metal exposed to the weather watertight with provisions for expansion and contraction.
D. Nailing: Confine nailing of soffit metal generally to sheet metal having a maximum width of 18 inches. Confine nailing or flashing to one edge only. Space nails evenly not over 3 inches on centers and approximately 1/2-inch from edge unless otherwise specified or indicated. Face nailing will not be permitted. Where soffit metal is applied to other than wood surfaces, include in shop drawings, the locations for sleepers and nailing strips required to secure the work.
E. Bolts, Rivets, and Screws: Install bolts, rivets, and screws where indicated or required.
F. Provide compatible washers where required to protect surface of soffit metal and to provide a water-tight connection.
G. Repairs to Finish: Scratches, abrasions, and minor surface defects of finish may be repaired in accordance with the manufacturer's printed instructions and as approved. Repair damaged surfaces caused by scratches, blemishes, and variations of color and surface texture. Replace items which cannot be repaired.

END OF SECTION

SECTION 07 92 00
JOINT SEALERS

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including Instructions to Bidders and General Conditions, and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section Includes:
   1. Provision and installation of joint sealers for joints between new soffit closure track and existing masonry and cement stucco exterior wall.

B. Scope: Provide all materials, labor, equipment, and appliances required to complete work of this Section, including, but not necessarily limited to, the following:
   1. Cleaning and priming of joints as required by Manufacturer's installation instructions.
   2. Installation of joint sealants at exterior joints.

1.3 REFERENCES

A. ASTM C 321 - Standard Test Method for Bond Strength of Chemical-Resistant Mortars
B. ASTM C 920 - Standard Specification for Elastomeric Joint Sealants
C. FS (Federal Specification) TT-S-00227E (COM-NBS) - Interim Federal Specification for Sealing Compound: Elastomeric Type, Multi-Component (for Caulking, Sealing, and Glazing in Buildings and Other Structures
D. FS (Federal Specification) TT-S-00230C - Interim Federal Specification for Sealing Compound: Elastomeric Type, Single Component (for Caulking, Sealing, and Glazing in Buildings and Other Structures
E. FS (Federal Specification) TT-S-001543 (COM-NBS) - Interim Federal Specification for Sealing Compound: Silicone Rubber Base (for Caulking, Sealing, and Glazing in Buildings and Other Structures

1.4 QUALITY ASSURANCE

A. Performance: Except as otherwise indicated, joint sealers are required to establish and maintain airtight and waterproof continuous seals on a permanent basis, within recognized limitations of wear and aging as indicated for each application. Failures of installed sealers to comply with this requirement will be recognized as failures of materials and workmanship.
B. Applicator Qualifications: Contractor and job foreman must have a minimum of five (5) years experience installing sealant.
C. Pre-Installation Compatibility and Adhesion Tests: Contractor shall be responsible for verifying with sealant manufacturer that all sealants to be used are compatible with and will satisfactorily adhere to all substrates. Tests shall be conducted in the field and witnessed by the Architect or Inspection Agency.
D. Adhesion Test: During installation, in the presence of, and when and where directed by the Architect or Inspection Agency, conduct pull test on each joint type. Test is to be performed by slicing across the joint and then cutting both sides of the joint two inches, separating the sealant from the adjoining material. The sealant shall then be pulled in the direction of the joint. The sealant should break rather than separate from the adjoining material.

1.5 SUBMITTALS

A. Submit under provisions of Division 1.
B. Manufacturer's Technical Data, Guides, and Application Procedures
C. Submit samples illustrating colors.
D. Submit laboratory tests or data validating product compliance with performance criteria specified.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver products in original factory packaging bearing identification of product, manufacturer, and batch number. Provide Material Safety Data Sheets for each product.
B. Store products in a location protected from freezing, damage, construction activity, precipitation, and direct sunlight in strict accordance with manufacturer's recommendations.
C. Condition products to approximately 60 to 70 degrees F for use in accordance with manufacturer's recommendations.
D. Handle all products with appropriate precautions and care as stated on Material Safety Data Sheet.

1.7 PROJECT CONDITIONS

A. Do not use products under conditions of precipitation or freezing weather. Use appropriate measures for protection and supplementary heating to ensure proper curing conditions in accordance with manufacturer's recommendations if application during inclement weather occurs.
B. Ensure substrate is dry.
C. Protect adjacent work from contamination or damage.

1.8 WARRANTY

A. Provide manufacturer's twenty-year limited warranty against failure of structural adhesion, staining, and weatherseal.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

A. Single Source: All materials, including joint sealers, cleaners, and primers shall be of a single source manufacturer.
B. Acceptable Manufacturers:
    1. Dow Corning
    2. Sika
    3. Tremco
    4. Pecora
    5. Approved Equal

2.2 MATERIALS

A. Exterior Joint Sealant: One-part, low modulus, elastomeric sealant: *DOW CORNING* 790 Silicone Building Sealant, *SIKA* WS290 or *TREMCO* Spectrem 1, Conforming to ASTM C-920, Type S, Class 100/50 Grade NS, Use NT, M, G, A, and O.

2.3 ACCESSORIES

A. Primer: As required by sealant manufacturer.
B. Joint Cleaner: Non-corrosive and non-staining type recommended by sealant manufacturer and compatible with joint forming materials.

C. Backer Rod: Bi-cell polyethylene rod designed for use with cold-applied joint sealants for on-grade or below-grade applications.
   1. Comply with ASTM C 1330 Type B.
   2. Size required for joint design.

D. Bond Breaker: Pressure-sensitive tape polyethylene or Teflon recommended by sealant manufacturer.
E. Masking Tape: Pressure-sensitive paper tape.

2.4 COLOR

A. Sealant Colors: Selected by Architect from manufacturer's master color system.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Inspect all areas involved in work to establish extent of work, access, and need for protection of surrounding construction and public spaces.
B. Conduct pre-application inspection of site verification with an authorized manufacturer's representative.
C. The drawings generally indicate locations of joint sealers. The contractor shall examine the building prior to bidding to determine the quantity and location of all sealant joints. The contractor shall be responsible for the preparation and replacement of joint sealers in ALL joints related to the structural repair whether shown on the drawings or not.

3.2 PREPARATION

A. Remove loose materials and foreign matter which impair adhesion of joint filler.
B. Clean joints by grinding, sandblasting, or wire brushing to expose a sound surface free of contamination and laitance.
C. Ensure structurally sound surfaces, dry, clean, free of dirt, moisture, loose particles, oil, grease, asphalt, tar, paint, wax, rust, waterproofing, curing and parting compounds, membrane materials, and other foreign matter.
D. Prime the bond line using Prime Coat where required by the sealant manufacturer installation instructions or as required for proper adhesion, allowing a minimum of one hour drying and cure time before installing sealant. Primer should be within shelf life and poured from containers onto rags, or into applicator bottles that can be poured onto rags. If brushes are used, primer should be poured a small amount at a time into another open container to avoid contaminating primer and to minimize primer being exposed too long. Pour out no more than can be applied in 30 minutes. If primer becomes cloudy or contaminated, discard. Prime no more substrate than can be sealed in one day or shift.
E. Where the possibility of joint filler staining of adjacent areas or materials exists, mask joints prior to application.
   1. Do not remove masking tape before joints have been tooled and initial cure of joint filler has taken place.
   2. Work stained due to failure of proper masking precautions will not be accepted.

3.3 INSTALLATION

A. Solvent clean aluminum and any other non-porous surfaces with recommended solvent using the “Two Cloth Cleaning Method”.
B. Apply primer according to manufacturer’s instructions.
C. Back-Up Material:
   1. Install backer rod using blunt or rounded tools to assure uniform depth (+/- 1/8”) without puncturing or twisting. Bi cell rod shall be a minimum 25% and maximum 50% oversized. Install bond breaker tape in shallow joints.

2. Install polyethylene joint filler in joints wider than 1/4 inch to back-up material per manufacturer's recommendations.

D. Bond Breaker: Install bond-breaker strip in joint to be sealed on top of back-up material to prevent adhesion of sealant to back-up material; install per manufacturer's recommendations.
E. Sealant:

1. Mask or protect adjacent areas that are not to receive sealant.
2. Apply sealant in joints using a pressure gun with nozzle cut to appropriate size. Deposit sealant in a uniform and continuous bead with no gaps or air pockets.
3. Tool joints to require configuration with a blunt instrument as soon as possible after installation, but before sealant begins to skin over. Remove all masking materials immediately after tooling.
4. Apply materials only within manufacturer's specified application life period. Discard sealant after application life is expired or if prescribed application period has elapsed.

F. Joints shall have a minimum width to depth ratio of 2:1. Finished joint cross section shall have an hourglass shape.

3.4 CLEANING

A. Remove uncured sealant and joint filler with Reducer 990, xylene, toluene, or MEK. Remove cured sealant and joint filler by razor, scraping, or mechanically.
B. Remove all debris related to application of sealants from job site in accordance with all applicable regulations for hazardous waste disposal.

3.5 SCHEDULE OF JOINT SEALERS

A. General-Purpose Exterior Applications:
   1. Sealant: One Part Silicone Building Sealant
   2. Applications: All exterior joints between new soffit closure track and existing masonry and cement stucco exterior wall.

END OF SECTION

SECTION 09 90 00
PAINTING

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and General Provisions of the Contract, including Instructions to Bidders and General Conditions, and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Scope: The work of this Section includes the preparation and painting of the exposed portion of the existing steel angle along the outer edge of the new soffit (refer to detail on drawings).
B. Work Not Included: The following categories of work are not included as part of field applied finish work, or are included in other sections of these specifications:
    1. Shop priming: Unless otherwise specified, shop priming of ferrous items is included under various sections for structural steel; miscellaneous metal, hollow metal work and similar items. Also, for fabricated components such as architectural woodwork, wood casework, and shop fabricated, or factory built mechanical and electrical equipment or accessories.
    2. Pre-finished or factory items: Unless otherwise indicated, do not include painting when factory finishing, or installer finishing is specified for such items.
    3. Concealed surfaces: Unless otherwise indicated, painting is not required on surfaces in concealed areas and generally inaccessible areas, foundation spaces, furred areas, pipe spaces, duct shafts and the like.
    4. Finished metal surfaces: Metal surfaces of anodized aluminum, stainless steel, chromium plate, copper, bronze and similar finished materials.
    5. Operating parts and labels: Moving parts of operating units, mechanical and electrical parts such as valve and damper operators, linkages, sinkages, sensing devices, and motor and fan shafts will not require finish painting unless otherwise indicated.

1.3 SUBMITTALS

Product Data: Submit manufacturer's technical information including paint label analysis and application instructions for each material proposed for use. Provide MDS sheets for all products.

1.4 DELIVERY AND STORAGE

Deliver materials to job site in original, new and unopened packages and containers bearing manufacturer's name and label, and the following:

1. Name and title of material
2. Fed. Spec. number, if applicable
3. Manufacturer's stock number and date of manufacturer
4. Manufacturer's name
5. Contents by volume, for major pigment and vehicle constituents
6. Thinning instructions
7. Application instructions
8. Color name and number

1.5 JOB CONDITIONS

A. Environmental Conditions:
    1. Apply water-based paints only when temperatures are between 50 and 90 degrees F., unless otherwise permitted by paint manufacturer's printed instructions.

2. Apply solvent thinned paints only when temperature of surface to be painted and surrounding air temperatures are between 45 and 95 degrees F., unless otherwise permitted by paint manufacturer's printed instructions.

B. Weather factors: Do not paint in snow, rain, fog or mist, or when relative humidity exceeds 85%, or to damp or wet surfaces, unless otherwise permitted by paint manufacturer's printed instructions. painting may be continued during inclement weather if areas and surfaces to be painted are enclosed and within temperature limits specified by manufacturer during application and drying periods.

PART 2 – PRODUCTS

2.1 COLORS AND FINISHES

A. General:
   1. Paint colors shall be as selected by the NJDOT.
   2. Surfaces treatments and finishes shall be as scheduled.

B. Color Pigments: Pure, non-fading, applicable types to suit substrates and service indicated. Lead content in pigment is limited to contain not more than 0.5% lead, as lead metal based on the total non-volatile (dry film) of paint by weight.
C. Paint Coordination: Provide finish coats which are compatible with prime coats used. Provide barrier coats over incompatible primers and remove and reprime as required. Notify Architect in writing of any anticipated problems using specified coating systems with substrates primed by others.
D. Single Manufacturer: Provide undercoat paint produced by same manufacturer as finish coats. Use only thinners approved by paint manufacturer and use only within recommended limits.

2.2 PROPRIETARY NAMES

A. Proprietary names: When used to designate colors or materials are not intended to imply that products of named manufacturers are required to exclusion of equivalent products of other manufacturers.
B. Federal Specifications: Are used to establish minimum acceptable quality for paint materials. Provide written certification from paint manufacturer that materials provided meet or exceed these minimums.
C. Substitutions: Manufacturer's products which comply with coating qualitative requirements of applicable Federal Specifications, yet differ in quantitative requirements, may be considered for use when acceptable to the Architect. Furnish material data and manufacturer's certificate of performance to Architect for any proposed substitutions.

2.3 MATERIALS

A. Exterior Metal Primer: Acrylic Latex primer, equal to SW DTM Acrylic Primer/Finish, B66W1
B. Exterior Metal Finish: Acrylic Latex gloss, equal to SW DTM Acrylic Coating, B66 Series

PART 3 – EXECUTION

3.1 INSPECTION

A. General: Applicator must examine areas and conditions under which painting work is to be applied and notify Contractor in writing of conditions detrimental to proper and timely completion of the work. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to Applicator. Starting of painting work will be construed as Applicator's acceptance of surfaces and conditions within any particular area.

B. Surface Conditions: Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces or conditions otherwise detrimental to formation of a durable paint film.

3.2 SURFACE PREPARATION

A. General: Perform preparation and cleaning procedures in accordance with paint manufacturer's instructions and as herein specified for each particular substrate condition.
   1. Related work: Surface preparation, priming and coats of paint specified are in addition to shop-priming and surface treatment specified under other sections of the work.
   2. Items not scheduled: Paint exposed surfaces whether or not colors are designated in "schedules" except where natural finish of material is specifically noted as a surface not to be painted. Where items or surfaces are not specifically mentioned, paint same as adjacent similar materials or areas. If color or finish is not designated, Architect will select these from standard colors available for materials systems specified.
   3. Remove hardware and hardware accessories, machined surfaces, plates, lighting fixtures and similar in-place items not to be finished painted or, provide surface applied protection prior to surface preparation and painting operations. Remove, if necessary, for complete painting of items and adjacent surfaces. Following completion of painting of each space or area, reinstall removed items.
   4. Clean surfaces to be painted before applying paint or surface treatments. Remove oil and grease prior to mechanical cleaning. Program cleaning and painting so that contaminants from cleaning process will not fall onto wet, newly painted surfaces.
   5. Do not paint over any Code required labels, such as Underwriters' Laboratory, Factory Mutual, or any equipment identification, performance rating, name or nomenclature plates.

B. Ferrous Metals: Clean ferrous surfaces which are not galvanized, or shop coated, of oil, dirt, and loose mill scale and other foreign substances by solvent or mechanical cleaning.
C. Galvanized surfaces: Clean free of oil and surface contaminants with non-petroleum-based solvent.

3.3 MATERIALS PREPARATION

A. Mix and prepare painting materials in accordance with manufacturer's directions. Store materials not in actual use in tightly covered containers. Maintain containers used in storage, mixing and application of paint in a clean condition, free of foreign materials and residue.

3.4 APPLICATION

A. General: Apply paint in accordance with manufacturer's directions. Use applicators and techniques best suited for substrate and type of material being applied.
   1. Apply additional coats when undercoats, stains or other conditions show through final coats of paint, until paint film is of uniform finish, color and appearance. Insure that surfaces including, edges, corners, crevices, welds and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.

B. Scheduling Painting: Apply first coat material to surfaces that have been cleaned, pretreated or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration. Allow sufficient time between coatings to permit proper drying. Do not recoat until paint has dried to where it feels firm, does not deform or feel sticky under moderate thumb pressure, and application of another coat does not cause lifting or loss of adhesion of the undercoat.
C. Minimum Coating Thickness: Apply materials at not less than manufacturer's recommended spreading rate, to establish a total dry film thickness as indicated or recommended by coating manufacturer.

D. Prime Coats: Apply prime coat of material which is required to be painted or finished and which has not been prime coated by others. Recoat primed and sealed surfaces where there is evidence of suction spots or unsealed areas.
E. Pigmented (opaque) Finishes: Completely cover to provide an opaque, smooth surface of uniform finish, color, appearance and coverage. Cloudiness, "holidays", spotting, laps, brush marks, runs, sags, and other surface imperfections will not be acceptable.

3.5 CLEAN-UP AND PROTECTION

A. Clean-up: During progress of work, remove from size discarded paint materials, rubbish, cans and rags at the end of each day's work. Upon completion of painting work, clean window glass and other paint-spattered surfaces. Remove spattered paint by proper methods of washing and scrapping. Use care not to scratch or damage finished surfaces.
B. Protection: Protect work of other trades, whether to be painted or not., against damage by painting and finishing work. Correct any damage by cleaning, repairing or replacing, and repainting as acceptable to the Architect and at no additional charge to the Owner.
C. Completion: At the completion of the work of other trades, touch-up and restore all damaged or defaced painted surfaces.

3.6 COATING SCHEDULE

A. Refer to Article 2.3 above for materials
B. Exterior Steel:
    1. Primer: Spot Prime with Exterior Metal Primer
    2. Finish: 1 Top Coat Exterior Metal Finish

3.7 GUARANTEE

Refinish any areas where finishes have failed within one (1) year from date of acceptance by the Owner. Failure from vandalism, abnormal structural movement, or other causes not inherent in the finish system except normal wear and maintenance will not be considered failure of the finish.

3.8 PAINT FOR TOUCH-UP

Provide one (1) gallon of each type and color paint or finish used for touch-up.

END OF SECTION