

MODIFICATIONS TO “GREENBOOK” STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

All the Work to be done under this contract shall be in accordance with these Modifications and the **“GREENBOOK” Standard Specifications for Public Works Construction**, 2021 edition, as written and promulgated by Public Works Standards, Inc. Standard Specifications are available from the publisher:

BNi Building News
990 Park Center Drive, Suite E, Vista, CA 92081
www.bnibooks.com

The Standard Specifications set forth above, referred hereinafter as Standard Specifications, will control the general provisions, construction materials, and construction methods for this contract except as amended by the Plans, Modifications, or other contract documents.

The section numbers of these Modifications coincide with those of the said Standard Specifications. Only those sections requiring amendment, elaboration, or specifying options, are called out.

CHAPTER I

MODIFICATIONS TO THE STANDARD SPECIFICATIONS

“GREENBOOK” PART 1 – GENERAL PROVISIONS

**MODIFICATIONS TO THE STANDARD SPECIFICATIONS
“GREENBOOK” PART 1 – GENERAL PROVISIONS**

**SECTION 1 – GENERAL, TERMS, DEFINITIONS, ABBREVIATIONS,
UNITS OF MEASURE, AND SYMBOLS**

1-2 TERMS AND DEFINITIONS.

Add or redefine the following:

Agency:	City of Del Mar
Board:	City Council of the City of Del Mar
Caltrans:	State of California, Department of Transportation
Contractor:	The word Contractor is supplemented by adding thereto the following: The term Contractor means the Contractor as defined herein or his authorized representative.
County:	County of San Diego
Engineer:	The Public Works Director of the City of Del Mar or an authorized representative
Federal:	United States of America
State	State of California
SDRSD	San Diego Regional Standard Drawings

1-6 BIDDING AND SUBMISSION OF THE BID.

1-6.1 General.

Add the following:

Payment for the work included in each Bid Item shall be made at the actual quantity constructed, using the units listed in the Bid Schedule and the Unit Prices included in the Bid. All other work shown or mentioned on the Plans, in the Specifications, or in any one of the Contract Documents shall be considered as included in the related Bid Items shown in the Bid Schedule. The Contractor must complete all work that is shown or described in the Contract Documents, whether or not there is a specific Bid Item for that work, and no additional compensation will be allowed.

1-7 AWARD AND EXECUTION OF CONTRACT.

1-7.1 General.

Replace with the following:

Within fifteen (15) working days after the date of the Agency's Notice of Award, the Contractor shall execute and return the following contract documents to the Agency:

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Construction Contract
Performance Bond
Payment Bond
Public Liability and Property Damage Insurance Certificate
Commercial General Liability
Automobile Liability Insurance Certificate
Noncollusion Affidavit
Worker's Compensation Insurance Certificate

Failure to comply with the above will result in annulment of the award and forfeiture of the Proposal Guarantee.

The Contract Agreement shall not be considered binding upon the Agency until executed by the authorized Agency officials.

A corporation to which an award is made may be required, before the Contract Agreement is executed by the Agency, to furnish evidence of its corporate existence, of its right to enter into contracts in the State of California, and that the officers signing the contract and bonds for the corporation have the authority to do so.

1-7.2 Contract Bonds.

Add the following:

The Performance Bond shall remain in force until the date of recordation of the Notice of Completion. The Payment Bond shall remain in force until 35 days after the date of recordation of the Notice of Completion.

In conformance with the State of California Government Code, Chapter 13, Section 4590, the Contractor may substitute securities for any monies withheld by the Agency to endurance under the contract.

At the request and expense of the Contractor, securities equivalent to the amount withheld shall be deposited with the Agency, or with a state or federally chartered bank as the escrow agent, who shall pay such monies to the Contractor upon notification by Agency of Contractor's satisfactory completion of the contract.

The type of securities deposited and the method of release shall be approved by the Agency.

SECTION 2 - SCOPE OF THE WORK

2-2 PERMITS.

Delete this subsection in its entirety and replace with the following:

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The Contractor shall comply with the requirements as established in the City permits resolutions 2024-59 and 2024-50 as included in Appendix F. The City will have a qualified biologist a certified arborist, and an archaeological and Native American monitoring program.

Within 10 calendar days of the commencement date stated in the Notice to Proceed, the Contractor shall submit a complete list of any additional permits they will obtain indicating the Agency required to grant the permit and the expected date of submission for the permit and required date for receipt of the permit. The Contractor shall bear all costs of inspection required by agency or utility from which the permit was obtained, as well as all costs, relating to traffic control or safeguarding of persons or property required by said Agency or utility.

In accordance with Del Mar Municipal Code, every person conducting or carrying on a commercial activity within the City from a fixed place of business shall pay an annual license tax. Work described within this contract qualifies as such a commercial activity.

The Contractor and all subcontractors shall be required to verify they have obtained business license(s) prior to the processing of any progress payment. All costs associated with obtaining the required license(s) shall be borne by the Contractor.

A Business License Application form can be submitted at
<https://delmar.hdlgov.com/Apply/GettingStarted/BusinessLicense>

The Contractor shall obtain written authorization from the private property owners prior to any construction on private property.

The permits and the City business license shall be valid for the entire construction period and shall be kept at the job site at all times. All provisions of the permit shall apply and shall have authority over any conditions contained herein these Special Provisions. Any costs incurred due to compliance with the permit or in obtaining a city business license or any other required permit or license shall be included in the contract cost for the Work item involved and no additional payment will be made. Failure to comply with these specific licensing and permit requirements will result in withholding of any progress payment(s) to the Contractor.

Payment for permits and license requirements, unless otherwise noted herein, shall be included in the various items of Work and no additional compensation will be allowed.

2-4 COOPERATION AND COLLATERAL WORK.

Add the following paragraphs following the second paragraph:

The Contractor shall cooperate with property owners, various utility companies, and other interested parties within or adjacent to the limits of the Work specified herein.

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It shall be the responsibility of the Contractor to schedule his Work and that of his subcontractors to produce a smooth flow of Work in a competent manner. All Contractors on this project shall cooperate with each other scheduling their Work.

2-5 THE CONTRACTOR’S EQUIPMENT AND FACILITIES.

2-5.2 Temporary Utility Services.

Add the following:

Water for any purpose shall be obtained by the Contractor at his expense. Refer to Section 402 Utilities. In no case, may the Contractor obtain water from unmetered fire hydrants. The penalty for taking water from an unmetered fire hydrant shall be deducted from the payment due to the Contractor if the Agency is assessed by the water purveyor. The costs of obtaining water shall be included in the prices paid for the various contract items of Work included and no additional compensation will be allowed, unless otherwise specified in these Contract Documents.

2-6 CHANGES REQUESTED BY THE CONTRACTOR.

Add the following new subsection:

2-6.1 Cost Reduction Proposal.

- a) Contractor may submit to the Engineer in writing, proposals for modifying the Plans, Specifications, or other requirements of the Contract for the sole purpose of reducing the total cost of construction.
- b) The cost reduction proposal shall not impair, in any manner, the essential functions or characteristics of the Project such as service life, economy of operation, ease of maintenance, desired appearance, or design and safety standards.
- c) Include the following information in the cost reduction proposal:
 - 1) A description of both the existing Contract requirements for performing the Work and the proposed changes.
 - 2) An itemization of the Contract requirements that shall be changed if the proposal is adopted.
 - 3) A detailed estimate of the cost of performing the Work under the existing Contract and under the proposed change.
 - 4) A statement of the time within which the Engineer shall make a decision.
 - 5) The Contract items of Work affected by the proposed changes, including any quantity variation attributable thereto.
- d) These provisions of this subsection do not require the Engineer to consider any cost reduction proposal which may be submitted. The City shall not be liable for not accepting or acting upon any cost reduction proposal submitted pursuant to this subsection nor for any delays to the Work attributable to the proposal.
- e) If a cost reduction proposal is similar to the information included in the Contract Documents or adopted by the City after the advertisement for the Contract, the Engineer will not accept such proposal and reserves the right to make such changes without compensation under the provisions of this subsection.
- f) Contractor shall continue to perform the Work in accordance with the requirements of the Contract until a Change Order incorporating the cost reduction proposal has been

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- issued. If a Change Order has not been issued by the date upon which the cost reduction proposal specified a decision should be made, or such other date as specified in writing, the cost reduction proposal shall be deemed rejected.
- g) The Engineer is the sole judge of the acceptability of a cost reduction proposal and the estimated net savings. In determining the estimated net savings, the City has the right to disregard the Contract Bid prices if, in the judgment of the Engineer, such prices do not represent a fair measure of the value of the Work to be performed or to be deleted.
 - h) The City reserve the right, where it deems such action appropriate, to require share in the City’s costs of investigating the cost reduction proposal as a condition of considering such proposal. Where such a condition is imposed, indicate acceptance in writing allowing the City to deduct amounts payable from any monies due or that may become due under the Contract.
 - i) If the Engineer accepts the cost reduction proposal in whole or in part, the Engineer shall issue a Change Order to incorporate the changes in the Plans and Specifications which are necessary to permit the cost reduction proposal or such part of it as has been accepted to be put into effect. If the Engineer’s approval is conditional, the Change Order shall include any conditions upon which the Engineer's approval is based.
 - j) The Change Order also includes the estimated net savings in the cost of performing the Work due to the accepted cost reduction proposal and provides that the Contract cost be adjusted by crediting the City with 50% of estimated net savings amount.
 - k) The Contract Time shall not be extended by the acceptance of the cost reduction proposal and the performance of the Work unless specified otherwise in the Change Order.
 - l) The amount specified as payable in the Change Order is full compensation for the cost reduction proposal and the performance of the Work.
 - m) The City expressly reserves the right to adopt a cost reduction proposal for general use on contracts administered by the City when it determines that said proposal is suitable for application to other contracts. When an accepted cost reduction proposal is adopted for general use, only the Contractor who first submitted such proposal shall be eligible for compensation subject to this subsection, and in that case, only for contracts awarded prior to submission of the accepted cost reduction proposal.
 - n) The cost reduction proposals identical or similar to previously submitted proposals shall be eligible for consideration and compensation under the provisions of this subsection if the identical or similar previously submitted proposals were not adopted for general application to other contracts administered by the City.
 - o) Subject to the provisions contained herein, the City or any other public agency shall have the right to use all or any part of any submitted cost reduction proposal without obligation or compensation of any kind to Contractor.

Contractor shall bear all costs to revise bonds for the Project to include the cost reduction incentive proposal Work.

2-7 CHANGES INITIATED BY THE AGENCY.

2-7.1 General.

Add the following paragraph after the first paragraph:

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The Contractor shall prepare prices for extra Work in accordance with the Engineer's instructions and shall submit said prices to the Engineer for approval. The Contractor shall not proceed with extra Work until ordered to do so in writing by the Engineer.

The Contractor shall submit rates for labor and equipment, including subcontractors, at the preconstruction meeting for all potential extra Work.

SECTION 3 - CONTROL OF THE WORK

3-2 SELF-PERFORMANCE.

Add the following new subsection:

3-2.1 Self Performance. The contract labor performed or provided by the Contractor shall amount to at least 50 percent of the total contract labor for the Contract. Contract labor shall exclude superintendence.

Prior to award of the Contract, the otherwise qualifying low bidder shall submit a list of all subcontractors intended to perform Work on the project. This list shall include the name and location of the place of business of each subcontractor who will perform Work or labor or render service to the prime Contractor in or about the construction of the Work or improvement, or a subcontractor licensed by the State of California who, under subcontract to the prime Contractor, specially fabricates and installs a portion of the Work or improvement according to detailed drawings contained in the Plans and Specifications, in an amount in excess of one-half of 1 percent of the prime Contractor's total bid. The prime Contractor shall provide a description by bid item number or otherwise fully designate the portion of Work to be performed by each subcontractor.

3-7 CONTRACT DOCUMENTS.

Add the following two new subsections:

3-7.3 Examination of Contract Documents. The bidder shall examine carefully the entire site of the Work, including but not restricted to the conditions and encumbrances related thereto, the Plans and Specifications, and the proposal and contract forms. The submission of a bid shall be conclusive evidence that the bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of the Work to be performed, the quantities of material to be furnished and as to the requirements of the proposal, Plans, Specifications, and the Contract.

3-7.4 Record Drawings.

- a) The Contractor shall keep and maintain, at the job site, one record set of specifications, addenda, change orders, modifications, full size contract drawings and shop drawings. On these, he shall mark all project conditions, locations, configurations, and any other changes or deviations which may vary from the details represented on the original contract drawings, including buried or concealed construction and utility features

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- which are revealed during the course of construction. Special attention shall be given to recording the horizontal and vertical location of all buried utilities that differ from the locations indicated, or which were not indicated on the contract drawings. Said record drawings shall be supplemented by any detailed sketches as necessary or directed to indicate, fully, the Work as actually constructed. These master record drawings of the Contractor's representation of as-built conditions, including all revisions made necessary by addenda, change orders, and the like shall be maintained up-to-date during the progress of the Work.
- b) Record drawings shall be accessible to the Engineer at all times during the construction period and shall be delivered to the Engineer upon completion of the Work.
 - c) Requests for partial payments will not be approved if the record drawings are not kept current, and not until the completed record drawings, showing all variations between the Work as actually constructed and as originally shown on the contract drawings or other contract documents, have been inspected by the Engineer.
 - d) Final payment will not be approved until the Contractor- prepared record drawings have been delivered to the Engineer. Said up-to-date, record drawings may be in the form of a set of prints with carefully plotted information overlaid in pencil.
 - e) Upon completion of the Work and prior to final acceptance, the record drawings shall be turned over to the Engineer for transmittal to the Agency.

Upon completion of the Work and prior to final acceptance, the complete set of Plans, marked up to show as-built conditions, shall be delivered to the Engineer for review. Full compensation for preparing, maintaining and providing Record Drawings (As-Built) shall be included in the stipulated lump sum price for this item of work.

3-8 SUBMITTALS.

3-8.1 General.

Delete this subsection in its entirety and replace with the following:

Submittals shall be provided for all materials and equipment to be furnished by the Contractor that will become a permanent part of the Work and wherever called for in the Plans, Specifications, and the Contract, or as required by the Engineer. The term "submittal" includes, but is not limited to, working drawings, design calculations, shop drawings, fabrication, installation and erection drawings, schedules, lists, graphs, operating instructions, catalog cuts, product data, data sheets, samples, and similar items.

Materials shall neither be furnished nor fabricated, nor shall any work for which submittals are required be performed before the required submittals have been reviewed and accepted by the Engineer. Neither review nor acceptance of submittals by the Engineer shall relieve the Contractor from responsibility for errors, omissions, or deviations from the Plans, Specifications, and the Contract, unless such deviations were specifically called to the attention of the Engineer in the letter of transmittal.

The Contractor shall be responsible for the correctness, accuracy, and completeness of all submittals, including dimensions, quantities, coordination, connections, details, and compliance

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with the Plans, Specifications, and the Contract. The Engineer's review or acceptance of any submittal shall not relieve the Contractor of this responsibility. The Contractor shall assume all responsibility and risk for any misfits due to any errors in the submittals. Any fabrication, procurement, or other Work performed prior to the Engineer's acceptance of the required submittals shall be at the Contractor's sole risk and expense.

Submittals shall be dated, signed, and certified by the Contractor as evidence that they have been reviewed and verified for compliance with the Plans, Specifications, and the Contract prior to submission. Each submittal shall be accompanied by a letter of transmittal identifying the project, specification section, submittal number, and any proposed deviations from the Plans, Specifications, and the Contract.

The Engineer will return submittals with one of the following dispositions:

- a) "NO EXCEPTIONS TAKEN" – Formal revision and resubmission of said submittal will not be required.
- b) "MAKE CORRECTIONS NOTED" – Formal revision and resubmission of said submittal will not be required.
- c) "AMEND-RESUBMIT" – The Contractor shall revise said submittal and shall resubmit said revised submittal to the Engineer.
- d) "REJECTED-RESUBMIT" – The Contractor shall revise said submittal and shall resubmit said revised submittal to the Engineer.

Comments or revisions identified during the submittal review process shall be construed as modifications necessary to achieve compliance with the Plans, Specifications, and the Contract and shall not be taken as the basis of claims for extra Work.

The Contractor shall allow a minimum of 15 Working Days for review of each submittal unless otherwise specified. The Contractor shall schedule and sequence submittals to avoid delays to the Work. It is expected that complete and acceptable submittals will be achieved by the second submission. The Agency reserves the right to withhold payment otherwise due the Contractor to recover additional engineering review costs beyond the second submission.

Payment for submittals shall be included in the Contract Unit Price or lump sum Bid price for the various Bid items.

3-10 SURVEYING.

Add the following new subsection:

3-10.3 Survey Service. The Contractor shall perform and be responsible for the accuracy of surveying adequate for construction, however the task of surveying itself shall be performed under the direction of a licensed Land Surveyor or Professional Engineer, whom is authorized to practice

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land surveying, retained or provided for by the Contractor. The cost of any additional surveying and/or construction staking primarily for the convenience of the Contractor and for replacement of stakes or field markings lost for any reason will be the responsibility of the Contractor. The cost to re-establish and file a corner record and tie sheets for any monumentation that is damaged or lost for any reason will be the responsibility of the Contractor.

The Contractor shall be responsible for inventorying all existing striping that will be affected by the Work and tying out all utility covers that will require adjustment to grade after the proposed finished surface is placed. Contractor shall be responsible for protection of existing survey monuments and centerline ties. The Contractor shall be responsible for the finished Work's conforming to the lines, grades and benchmarks given by the Engineer. The Contractor shall establish supplementary benchmarks, elevations, lines and grades and any other necessary controls, which are not established by the Engineer and which are necessary to complete the Work. Compensation for above Work by the Contractor shall be included in the various contract bid items and no additional compensation shall be made.

All construction surveying, monument preservation, and monument replacement surveying necessary to complete the Work as shown on the Plans and provided for in these contract documents and specifications shall be accomplished by or under the direction of a licensed Land Surveyor or Professional Engineer, with the ability to practice land surveying in the State of California, retained or provided by the Contractor. The Agency reserves the right to direct additional construction surveys to be performed by the Contractor when it feels it is required to adequately construct the Work.

All costs to the Contractor for protecting, removing, restoring, repairing, replacing, or reestablishing monuments or accessories to monuments or costs associated with the preparation or filing of Corner Records pursuant to sections 8700 to 8806 of the Business and Professions Code shall be included in the various contract bid items and no additional compensation shall be made.

Full compensation of conforming to the requirements of this section shall be included and no additional compensation shall be made, and shall include, but not be limited to, construction staking of all proposed improvements, locating survey monuments, re-setting of affected survey monuments, and centerline ties. Preparing and filing affected centerline tie sheets and Corner Records, locating Bench Marks and notifying the County Surveyor's Office of same, professional office services and field calculations, and furnishing all labor, materials, tools, equipment, and incidentals for doing all Work involved, and no additional compensation will be allowed. When the contract does not include a pay item for monument preservation and unless otherwise provided in the specifications, full compensation for all monument preservation required to complete the Work shall be included in the price bid for other items of Work and no additional compensation will be allowed.

3-12 WORK SITE MAINTENANCE.

3-12.1 General.

Add the following:

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The Contractor shall keep premises free from accumulations of waste materials, mud, dust and rubbish at all times. The Contractor shall provide adequate trash receptacles at the site, and shall promptly empty the containers when filled.

No material other than clear, clean water is allowed to flow in the street gutters and/or into storm drains.

Construction materials shall be neatly stacked by the Contractor when not in use. Dusty materials in piles or in transit shall be covered to prevent suspension of the dirt or air. The Contractor shall promptly remove splattered concrete, asphalt, oil, paint, corrosive liquids and cleaning solutions from the affected surfaces to prevent marring or other damage.

Volatile wastes shall be properly stored in covered metal containers and removed daily. Wastes shall not be buried or burned on the site or disposed of into storm drains, sanitary sewers, streams, or waterways. All wastes shall be removed from the site and disposed of in a manner complying with local ordinances and antipollution laws. Adequate cleanup will be a condition for recommendation of progress payment submittals.

Delete the second paragraph and replace with the following:

Unless directed otherwise by the Engineer, the Contractor shall furnish and operate a self-loading motor sweeper with spray nozzles at least once each working day to keep paved areas acceptably clean wherever construction, including restoration, is incomplete.

Add the following to the third paragraph:

All public roadways used as haul routes must be cleaned daily of all dirt, mud and debris deposited on them as a result of construction. Cleaning is to be done to the satisfaction of the Engineer.

Add the following:

The Contractor shall properly safeguard all equipment, materials, and Work against loss, damage, malicious mischief, or tampering by unauthorized persons until acceptance of the Work by the Agency. Locked and covered storage or continuous surveillance by a watchman shall be provided as necessary to accomplish this purpose.

The Agency reserves the right to retain title to all soils, stone, sand, gravel, and other materials developed and obtained from excavations and other operations connected with the Work. Unless otherwise specified in the contract documents, neither the Contractor nor any subcontractor shall have any right, title, or interest in or to any such materials. The Contractor will be permitted to use in the Work, without charge, any such materials which meet the requirements of the contract documents.

The Agency may desire to salvage certain items of existing equipment which are to be dismantled and removed during the course of construction. Prior to removal of any existing equipment from

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the site of the Work, the Contractor shall ascertain from the Engineer whether or not the particular item or items are to be salvaged. Items to be salvaged shall be stockpiled on the site in a location as directed by the Engineer, at the Contractor's expense. All other items of equipment shall be disposed of off-site by the Contractor at his own expense.

Payment for daily cleaning of all dirt, mud, and debris deposited on public roadways as a result of construction shall be included in the various items of Work and no additional compensation will be allowed.

3-12.2 Air Pollution Control.

Add the following:

The Contractor shall comply with all air pollution control rules, regulations, ordinances and statutes which apply to any Work performed pursuant to the Contract, including any air pollution control rules, regulations, ordinances and statutes, specified in Section 11017 of the Government Code.

In the absence of any applicable air pollution control rules, regulations, ordinances or statutes governing solvents, all solvents, including, but not limited to, the solvent portions of paints, thinners, curing compounds, and liquid asphalt used on the project shall comply with the applicable material requirements of the San Diego Air Pollution Control District. All containers of paint, thinner, curing compound or liquid asphalt shall be labeled to indicate that the contents fully comply with said requirements. Materials to be disposed of shall not be burned, either inside or outside the right of way.

Add the following new subsection:

3-12.2.1 Smog Control. The Contractor shall at all times maintain strict compliance with all applicable regulations of the San Diego Air Pollution Control District. Such regulations shall include, but will not be limited to:

- a) Maintenance of permits for all equipment requiring such permitting by the SCAQMD APCD or State Air Resources Board.
- b) Compliance with all permit conditions of permitted equipment including operating conditions, equipment maintenance, installation of emission control devices, and record keeping.
- c) Mitigation of all smoke, odors, or other air emissions that may constitute a nuisance.

In the event that the smoke problem becomes excessive, it may be necessary to add an additional blower system to reduce the problem. No additional compensation will be made for any necessary steps required to reduce the smoke.

3-12.3 Noise Control.

Add the following:

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The noise level from the Contractor's operations shall conform to Chapter 9.20 of the Del Mar Municipal Code as amended by Ordinance No. 452. A copy of this ordinance is available online at: <https://www.delmar.ca.us/171/Municipal-Code>.

The use of portable leaf blowers is prohibited within the City of Del Mar. NO EXCEPTIONS shall be granted. For every incident where the Contractor or Subcontractors are observed using leaf blowers, the Contractor shall pay the Agency, or have monies due withheld, the sum of five hundred (\$500).

3-12.4 Storage of Equipment and Materials.

3-12.4.1 General.

Add the following:

The Contractor shall obtain and maintain, at his own cost, a construction staging area outside of the right-of-way or outside the boundaries of the Agency’s property, unless a staging area is specifically shown on the Plans or described in the specifications. Any posted signs for or related to the staging area must be of professional quality and approved by the Engineer prior to placement. The staging area must be established, maintained and removed in a manner acceptable to the Engineer and the owner of the land where the staging area is situated. The Contractor shall be solely responsible for the security and liability of the staging area. The staging area maybe fenced, lighted and locked. Guard dogs are not allowed at the construction staging area. Such staging areas shall meet all requirements of applicable standards, codes, ordinances and laws, and shall be established at least five (5) Working Days prior to commencement of work.

When any product, material or equipment is to be stored outside the highway or street right-of-way or Agency property, the Contractor shall first obtain written permission from the property owner on whose property the storage is to be made. The Contractor shall file with the Engineer an original permission letter, together with a written release from the property owner absolving the Agency or its employees from any and all responsibility in connection with storage of materials, products or equipment on said property. The Contractor shall leave all storage areas in a neat and clean condition, satisfactory to the Engineer, and in accordance with the provisions of the storage permits.

3-12.4.2 Storage in Public Streets.

Add the following:

The Contractor shall not store construction materials, equipment or excavated material within the public right-of-way at any time without prior permission from the Engineer. The Contractor shall secure at his own expense any area required for plant sites, storage of equipment or materials, or for other purposes if sufficient area is not available within the project limits.

No parking of any construction equipment or stockpile of material will be allowed within the City Right of Way during non-working hours for the duration of the construction. Unused equipment or material (including the displaced material) shall be removed and stored offsite (to a fenced and screened area) daily. The Contractor may, at his own expense, maintain and operate a Work and

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storage area outside of the public right-of-way. The Contractor's storage area is subject to all requirements of the BMPs to be implemented in the storage facility shall be designated in the SWPPP/BMP Plan and utilized in the storage facility as needed. In such case the Contractor shall submit to Agency written authorization from the owners of the subject property prior to occupation. Occupation of site without written authorization shall be grounds for immediate suspension of Work. Location of the storage site shall be approved by Agency. Condition and operation of yard shall conform to these specifications. The Contractor shall assume full responsibility for all damage to the site resulting from his operations and shall repair and/or replace same, at his own expense, to the satisfaction of the owner of the subject property. The Contractor shall vacate site and return it to pre-project condition within five (5) working days following application for Notice of Completion. The Contractor shall obtain a written release from the property owner accepting the condition of the vacated site and releasing the Contractor from any further clean-up or restoration Work and shall submit a copy of such release to Agency. The Notice of Completion will not be issued until said release is submitted.

The Contractor shall provide and maintain suitable parking areas, for use by all construction workers and others performing Work or furnishing services in connection with the project, as required to avoid any need for parking personal vehicles where they may interfere with public traffic, construction activities, or public parking.

Unless specific stockpile and storage areas have been established by the Agency as described elsewhere in the special provisions, stockpile and equipment storage locations shall be selected by the Contractor, subject to written approval by the Engineer.

Stockpile and storage areas shall be allowed only for new, clean construction materials intended for use within the near future. Temporary storage of construction trash and waste materials shall be in approved containers and equipped with lids that are closed when not in use. Disposal of construction trash or waste materials shall not be allowed within the city limits.

The Agency may have limited space for use by the Contractor as a temporary construction storage yard at the discretion of the Public Works Director. Any such area may be used for materials and equipment storage only. No excavation, refuse material, hazardous substances or fuel containers will be allowed. This area would not be for the exclusive use of the Contractor, but will also be used for other city activities. Any fencing required to enclose the temporary storage yard will be the responsibility of the Contractor. The Contractor shall be fully responsible for providing all security necessary at the storage area for protection of his equipment and materials and for making all provisions necessary for public safety. The Agency will assume no liability for vandalism, lost or damaged equipment or materials or public injury at the storage area. The Contractor shall keep the area neat and orderly and shall clean and refurbish the area following completing of Work to conditions acceptable to the Agency.

Full compensation for conforming to the requirements of this provision shall be considered as included in the various items of Work and no additional compensation will be allowed.

The storage of fuel, fuel oils or gasoline shall not be allowed within the City limits.

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3-12.5 Sanitary Sewers.

Add the following new subsection:

3-12.5.4 Sanitary Facilities.

- a) Toilet Facilities. Fixed or portable chemical toilets shall be provided wherever needed for the use of employees. Toilets at construction job sites shall conform to the requirements of section 1926.51(c) of the OSHA standards for construction.
- b) Sanitary and Other Organic Wastes. The Contractor shall establish a regular collection of all sanitary and organic wastes. All wastes and refuse from sanitary facilities provided by the Contractor or organic material wastes from any other source related to the Contractor's operations shall be disposed of away from the site in a manner satisfactory to the Engineer and in accordance with all laws and regulations pertaining thereto. Disposal of all such wastes shall be at the Contractor's expense.

3-12.6 Water Pollution Control.

3-12.6.1 General.

Add the following:

The Contractor shall adhere to, the requirements of the San Diego Regional Water Quality Control Board (RWQCB). All work shall be performed in accordance with National Pollutant Discharge Elimination System (NPDES) Number CAS0109266 [San Diego Order Number Order No. R9 2013-0001, as Amended by Order Nos. R9-2015-0001 and R9-2015-0100 (“National Pollutant Discharge Elimination System (NPDES) Permit and Waste Discharge Requirements for Discharges from the Municipal Separate Storm Sewer Systems (MS4s) Draining the Watersheds Within the San Diego Region”)], which can be found on the Internet at:

https://www.waterboards.ca.gov/sandiego/water_issues/programs/stormwater/sd_stormwater.html

The Contractor shall adhere to and shall perform in accordance with the requirements of City of Del Mar Municipal Code for Storm Water Management and Discharge Control Program.

The Contractor shall implement and adhere to the erosion control plan showing all pollution prevention, erosion and sediment control, and site management practices and shall implement and maintain all appropriate measures to prevent polluted discharges from entering storm water conveyance facilities (e.g., channels, storm drains, and water bodies).

For projects not subject to the Construction General Permit, before commencement, and until final acceptance of the Work by the City, the Contractor shall provide all measures necessary to avoid erosion and adverse drainage conditions.

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The Contractor shall provide and maintain at all times during construction ample means and devices to promptly remove and properly dispose of all surface and subsurface water entering the excavations or other parts of the Work to the satisfaction of the Agency. This may include, but not limited to, coffer dams, well points, piping, pumps, French drains, etc., as necessary to accomplish the above.

Discharge of Hydrostatic Test Water and Potable Water

In discharging hydrostatic test water, pipeline flushing water, and any potable water the Contractor shall comply with all requirements of the California Regional Water Quality Control Board, San Diego Region, regarding wastewater discharges, including Permit Order No. R9-2002-0020 or R9-2010-0003 after September 1, 2010 *General Waste Discharge Requirements for Discharges of Hydrostatic Test Water and Potable Water to Surface Waters and Storm Drains or Other Conveyance Systems*.

If the wastewater discharge is applied to land without entering into a municipal storm drain (MS4) system or defined streambed, then Order No. R9-2002-0020 or R9-2010-0003 is not applicable.

Add the following new subsection:

3-12.6.1.1 Compliance. The Contractor shall make every effort to comply with the provisions of this subsection. However, should the Contractor violate any of the provisions of this subsection, or if pollution occurs in the work area for any reason, the Contractor shall immediately notify the City Engineer. If an unmitigated non-storm water discharge leaves the construction site, the Contractor shall immediately stop all the activity causing the discharge and mitigate the discharge and immediately notify the City Engineer. In addition, the Contractor shall, with seven (7) calendar days, submit written confirmation to the City Engineer describing the incident and corrective actions taken. If pollution, for whatever reason, is detected by the City Engineer before notification by the Contractor, the required written confirmation shall also include any explanation of why the Contractor had not notified the City Engineer.

As soon as practical, any and all waste material, sediment, debris or other pollution from any discharge shall be removed from the work area and/or the drainage system by the Contractor. Any remedial actions will be the sole responsibility of the Contractor.

The Agency may make any further corrective actions, as deemed necessary, for abatement of water pollution if the Contractor has violated any of the provisions of this subsection. The Contractor shall be responsible for all costs incurred for the corrective actions. Failure to comply with the requirements of this subsection may result in the suspension of Work per Subsections 6-4 (Delays and Extensions of Time) and 6-6 (Suspension of the Work). The Contractor shall also reimburse the Agency for any fines assessed against and paid by the Agency and that are the result of the Contractor's failure to comply with these specifications.

Compliance with the requirements of this subsection shall in no way relieve the Contractor of its responsibility to comply with other provisions of the Contract, in particular its responsibility for repair of damage and for preservation of property.

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3-12.6.3 Storm Water Pollution Prevention Plan (SWPPP)

Add the following:

Stormwater Discharge Requirements

A new Storm Water General Permit, Order 2022-0057-DWQ, took effect September 1, 2023. The Contractor shall comply with the new permit requirements. The most significant changes to the new requirements in Order No. 2022-0057-DWQ are included in Appendix I.

The Contractor shall maintain the project footprint under one acre, otherwise an application for coverage or Notice of Intent under the General Permit must be completed and filed with the State Water Resources Control Board. In such a case, the Agency shall be notified immediately and the Storm Water Pollution Prevention Plan (SWPPP) 3-12.6.3 amended to comply with the General Construction Permit. The SWPPP shall contain a site map which shows the construction site perimeter, existing and proposed buildings, lots, roadways, storm water collection and discharge points, general topography both before and after construction, and drainage patterns across the project. The SWPPP shall list Best Management Practices (BMPs) 3-12.6.2 the Contractor intends to use to protect storm water runoff and the placement of those BMPs. Additionally, the SWPPP shall contain a visual monitoring program; a chemical monitoring program for "non-visible" pollutants to be implemented if there is a failure of BMPs; and a sediment monitoring plan if the site discharges directly to a water body listed on the 303(d) list for sediment.

The Contractor shall designate a qualified person who is trained and competent in the implementation of the project's SWPPP and use of BMPs and who shall be on the site daily, although not necessarily full time, to evaluate the conditions of the site with respect to storm water pollution prevention. This person shall ensure the implementation of the conditions of the City of Del Mar, the Contract Documents, and other State and local regulations and ordinances with respect to control of erosion, sediment and other forms of water pollution, as well as other waste management regulations. Further, this person shall be responsible for monitoring weather and implementation of any emergency plans as needed. The weather shall be monitored on a five-day forecast plan and a full BMP protection plan shall be activated when a 40% chance of rain is forecasted. This person shall also be responsible for overseeing any site grading operations and evaluating the effectiveness of the BMP's. This person shall modify the BMP's as necessary to keep the site in compliance. This person or other designated site management staff shall be responsible to inspect the BMP's routinely and ensure maintenance measures are implemented and revised the SWPPP as needed to meet compliance.

The Contractor shall educate all employees, subcontractors, and suppliers about storm water pollution prevention and mitigation measures needed during various construction activities to prevent the impact of construction discharges. The Contractor shall ensure that all personnel are trained in basic urban runoff management. A list of attendees and copies of the educational materials shall be kept on file at the site and submitted to the Engineer at the conclusion of each training session, upon request.

The Contractor shall protect the site with BMPs, such as gravel bags and filter fabric, all new and existing storm water conveyance system structures and other facilities from sedimentation or other

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related construction debris and discharges, or by any other equal product that is approved by the Engineer. The Contractor shall prevent any discharge of concrete rinse water or other pollutant into a stormwater conveyance facility with physical barriers.

The Contractor shall submit a BMP plan with the locations for concrete washout, staging, and storage areas. Further, the Contractor shall show pollutant control measures to be used (BMPs) to confine construction waste in these designated areas, including construction entrance stabilization and wheel-wash measures to reduce the tracking or deposition of sediment onto public and private roads.

The Contractor shall maintain and repair all pollutant control measures as soon as possible after the conclusion of each rain event as worker safety allows. For the duration of the project, the Contractor shall submit, with each progress payment request, documentation that these pollutant control measures were maintained, including detailed reports on daily routine Work and special maintenance Work that was performed, and a list of BMPs that were found to be inadequate and what modifications were made.

Monthly progress payments are conditioned upon the Owner having received from the Contractor the pollution control inspection and maintenance reports.

If an unmitigated non-stormwater discharge leaves the project site, the Contractor shall immediately stop all the activity causing the discharge and mitigate the discharge. The Contractor shall also immediately notify the Engineer of the discharge. As soon as practical, any and all waste material, sediment, debris or other pollution from any discharge shall be removed from the drainage system by the Contractor.

3-12.6.4 Dewatering

Add the following:

Contractor is advised that groundwater may be encountered during construction of project. If groundwater is encountered, Contractor shall dewater the trench as required for proper installation of the pipeline and protection of the workers at no additional cost to Agency. Contractor shall comply with all requirements of the California Regional Water Quality Control Board, San Diego Region, regarding discharge of groundwater from dewatering, including ORDER R9-2015-0013 NPDES NO. CAG919003 General Waste Discharge Requirements For Groundwater Extraction Discharges To Surface Waters Within The San Diego Region and procure all permits and/or authorizations required to dewater the pipeline trench.

If the groundwater discharge is applied to land without entering into a municipal storm drain (MS 4) system or defined streambed, then ORDER R9-2015-0013 NPDES NO. CAG919003 is not applicable. Prior to discharging water on private property, Contractor shall obtain written permission of the owner(s) approving such use. Said written permission shall be submitted to the Agency.

a) Other Discharges

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For all other wastewater discharge situations, the Contractor shall, at his sole expense, obtain a discharge permit from the California Regional Water Quality Control Board, San Diego Region. A copy of said discharge permit shall be provided to the Agency. Contractor shall comply with conditions therein and perform the monitoring required.

b) Miscellaneous Discharge Requirements

Contractor shall not allow any discharges from the construction site which may have an adverse effect on receiving waters of the United States. The wastewater discharge shall not contain a concentration of total residual chlorine of more than 0.1mg/1. The wastewater discharge shall not contain oils, grease, wax, or other potentially hazardous materials. The wastewater discharge shall not cause erosion or sedimentation in the receiving water. Contractor shall provide written notification to the Agency/municipality that owns, operates, and maintains the storm drain conveyance system a minimum of one (1) week prior to the start of any discharge into a storm drain conveyance system.

3-12.6.5 Payment.

Delete this subsection in its entirety and replace with the following:

All costs for the work required to comply with the requirements of this subsection shall be included in the bid item for Storm Water Pollution Prevention and Erosion Control as shown on the Bid Schedule.

Add the following new subsection:

3-12.7 Weed Control. The Contractor shall at all times comply with requirements for hazardous communications programs. Pest control specialists are to be trained and supervised in the safe application, storage, and disposal of chemicals in accordance with EPA, OSHA, and DPR regulations. Use of Round-Up, Ranger-Pro, or any other product with Glyphosate is prohibited. Violations of any of these requirements will lead to a civil (Public Nuisance) penalty of up to \$5,000 per day, per violation.

SECTION 5 – LEGAL RELATIONS AND RESPONSIBILITIES

5-1 LAWS AND REGULATIONS.

Add the following new subsection:

5-1.1 General. The Contractor will be required to submit weekly certified payrolls for the project. The Contractor shall also submit payrolls for all subcontractors who perform Work in excess of \$10,000.

The payrolls reflect payment of the prevailing wage to all employees plus required fringe benefits. Failure to comply with this requirement may be cause for the Agency to stop construction or to withhold contract payments until the Contractor shows compliance.

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5-7 SAFETY.

5-7.1 Work Site Safety

5-7.1.1 General.

Add the following:

It is part of the service required of the Contractor to make whatever provisions are necessary to protect the public. The Contractor shall use foresight and shall take such steps and precautions as his operations warrant to protect the public from danger, loss of life, or loss of property, which would result from interruption or contamination of public water supply, interruption of other public service, or from the failure of partly completed Work or partially removed facilities. Unusual conditions may arise on the Work which will require that immediate and unusual provisions be made to protect the public from danger or loss, or damage to life and property, due directly or indirectly to prosecution of Work under this contract.

Whenever, in the opinion of the Engineer, an emergency exists against which the Contractor has not taken sufficient precaution for the public safety, protection of utilities and protection of adjacent structures or property, which may be damaged by the Contractor's operations and when, in the opinion of the Engineer, immediate action shall be considered necessary in order to protect the public or property due to the Contractor's operations under this contract, the Engineer will order the Contractor to provide a remedy for the unsafe condition. If the Contractor fails to act on the situation within a reasonable time period, the Engineer may provide suitable protection to said interests by causing such Work to be done and material to be furnished as, in the opinion of the Engineer, may seem reasonable and necessary.

The cost and expense of said labor and material, together with the cost and expense of such repairs as are deemed necessary, shall be borne by the Contractor. All expenses incurred by the Agency for emergency repairs will be deducted from the progress payments and the final payment due to the Contractor. However, if the Agency does not take such remedial measures, the Contractor is not relieved of the full responsibility for public safety.

5-7.2 Safety Orders.

5-7.2.1 General

Add the following:

The Contractor shall comply with the provisions of any Agency ordinances or regulations regarding requirements for the protection of excavations and the nature of such protection.

In accordance with Section 6500 of the Labor Code, the Contractor is required to obtain a permit from the Division of Industrial Safety for any trench or excavation of five feet or more in depth and into which a person is required to descent.

In accordance with Section 7104 of the Public Contract code, any public works contract, which involves excavations that extend deeper than four feet below the surface shall provide as follows:

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- a) That the Contractor shall promptly, and before the following conditions are disturbed, notify the public entity, in writing, of any:
 - 1) Material that the Contractor believes may be material that is hazardous waste, as defined in Section 25117 of the Health and Safety Code, that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law.
 - 2) Subsurface or latent physical conditions at the site differing from those indicated.
 - 3) Unknown physical conditions at the site of any unusual nature, different materially from those ordinarily encountered and generally as inherent in Work of the character provided for in the contract.
- b) That the public entity shall promptly investigate the conditions, and if it finds that the conditions do materially so differ, or do involve hazardous waste, and cause a decrease or increase in the Contractor's cost of, or the time required for, performance of any part of the Work shall issue a change order under the procedures described in the contract.
- c) That, in the event that a dispute arises between the public entity and the Contractor whether the conditions materially differ, or involve hazardous waste, or cause a decrease or increase in the Contractor's cost of, or time required for, performance of any part of the Work, the Contractor shall not be excused from any scheduled completion date provided for by the contract, but shall proceed with all Work to be performed under the contract. The Contractor shall retain any and all rights provided either by contract or by law, which pertain to the resolution of disputes and protests between the contracting parties.

5-7.2.3 Payment.

Add the following:

Full compensation for conforming to all sections of 5-7 shall be considered as included the various items of Work and shall include, but not be limited to, traffic control, notifications, providing temporary pedestrian access surfaces, advanced signing, maintenance of parking restrictions, and no additional compensation shall be allowed.

Add the following new subsection:

5-8 Mandatory Recycling of Industrial Waste. The Contractor shall dispose of designated recyclable materials in accordance with Del Mar Mandatory Recycling Ordinance No. 590, Section 11.20.110. The following materials are the designated industrial use recyclables subject to the ordinance: dirt, asphalt, sand, land clearing brush, concrete and rock.

Asphalt containing "Petromat" may require special handling; all costs associated with disposal shall be borne by Contractor.

Names, locations and fees of recyclers accepting the above items may be obtained by contacting the County of San Diego Department of Public Works, Solid Waste Division, (858) 565-5173 .

Prior to final project approval, the Contractor shall comply with the mandatory recycling ordinance by submitting to the city weight receipts for recyclable construction material.

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SECTION 6 – PROSECUTION AND PROGRESS OF THE WORK

6-2 PROSECUTION OF THE WORK.

Add the following:

Contractor shall, at contractor’s sole cost and expense, be solely and completely responsible for all matters affecting the prosecution, progress and completion of the work (both on and off the job site), and for observing all laws and providing for public convenience and safety, safety of workers (including its workers and those of its subcontractors, suppliers and others contributing to the work) and others, protection of property and rights of others, including location, maintenance and replacement of utilities whether shown on the plans or not, prior notification to utility owners, drainage from storm runoff, and all easements right-of-way and encroachment permits. Nothing in the Agreement, the specifications, or other Contract Documents or Agency’s approval of the plans and specifications, or inspection of the work is intended to include a review, inspection, acknowledgement of or responsibility for any such matters and Agency’s, Agency’s engineer and their consultants, and each of their directors, officers, employees and agents, shall have absolutely no responsibility or liability therefore.

Temporary AC ramp transitions and walkways will be required for temporary pedestrian and vehicular access. All temporary pedestrian access shall conform to the American Disability Act (ADA).

6-3 TIME OF COMPLETION.

6-3.1 General.

Add the following:

The time for completion shall be as noted in the Notice Inviting Bids and the Contract.

Add the following new subsection:

6-3.3 Working Hours. The Contractor's activities shall be confined to the hours as outlined below:

- 7:00 am to 4:30 pm Monday through Friday. No weekend or night work shall be permitted, unless requested in advance and approved by the City.

No lane closures, material deliveries, or other Work will be allowed except within the hours of Work. All trenches shall be plated at the end of each working day. Deviation from these hours will not be permitted without the prior consent of the Engineer, except in emergencies involving immediate hazard to persons or property. In the event of a requested deviation, inspection service fees will be charged against the Contractor. The service fees will be calculated at overtime rates, including benefits, overhead, and travel time. The service fees will be deducted from any amounts due the Contractor.

6-4 DELAYS AND EXTENSIONS OF TIME.

6-4.2 Extensions of Time

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Add the following:

An allowance for say 5 weather days and 5 unforeseen condition days shall be included in the contractor’s baseline schedule.

6-9 LIQUIDATED DAMAGES.

Delete in its entirety and replace with the following:

For each consecutive calendar day in excess of the time for completion of the Work the Contractor shall pay to the Agency, or have withheld from monies due it, the sum per day as listed in the Contract.

For every hour or for any part of an hour thereof in excess of the required time, per the traffic control plan or these Special Provisions, that all vehicular travel lanes of the roadway are not open to regular vehicular traffic, the Contractor shall pay the Agency, or have monies due withheld, the sum of five hundred (\$500) per hour.

For every hour or for any part of an hour thereof that a flagger is absent from the required intersection or roadway, per the traffic control plan and/or these Special Provisions, the Contractor shall pay the Agency, or have monies due withheld, the sum of five hundred (\$500) per hour.

SECTION 7 - MEASUREMENT AND PAYMENT

7-3 PAYMENT.

7-3.1 General.

Insert the following after the first paragraph:

Compensation for items of Work not specifically identified in these General Provisions shall include all labor, materials, tools, equipment, safety measures, and supervision required to complete the Work to grades and dimensions shown on the plans or staked in the field. There shall be no compensation except for the bid items specified in the Proposal. The cost of all Work shown on the plans and in these specifications but not specifically identified as a bid item or described within a bid item shall be included in related bid items, and no additional compensation shall become due the Contractor by nature of compliance with the plans and specifications except as provided in Sections 2, “Scope of Work” of the Greenbook, as modified in these Modifications.

Delete the last paragraph and replace with the following:

At the expiration of thirty-five (35) days from the filing and recording of the Notice of Completion of the Work, the amount deducted from the final estimate and retained by the Agency will be paid to the Contractor except such amounts as required to be withheld by properly executed and filed to stop payment, or as may be authorized by the contract.

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When no bid item is provided for Work/improvement shown or indicated on the plans and specifications, payment for such Work/improvement will be considered to be included in various applicable items of Work.

7-3.2 Partial and Final Payment.

Amend the first sentence of the first paragraph to read:

The closure date for the purpose of making partial progress payments will be the last day of each month. The Contractor may request, in writing, that such monthly closure date be changed. The Engineer may approve such request when it is compatible with the Agency's payment procedure. The Contractor shall prepare the approximate measurement of the Work performed through the closure date and submit it to the Agency for approval by the 10th day of the following month. When the Work is complete, the Engineer will determine the final quantities of the Work performed and prepare the final progress payment report.

Each month, the Contractor shall meet with the Engineer, a minimum of three working days prior to the submittal of the progress payment to the Agency, to finalize and receive approval regarding the measurement of the Work performed through the closure date and the estimated value of the progress payment based on the contract Unit Prices or as provided for in the Technical Provisions. Any progress payment submitted without such approval will be considered incomplete and returned to the Contractor and no payment shall be considered until such approval is obtained.

Add the following to the end of this section:

Payments are commonly authorized and made within 30 days following the 10th day of the month submitted. However, payments will be withheld pending receipt of any outstanding reports required by the contract documents. In addition, the final progress payment will not be released until the Contractor returns the control set of Plans and Specifications showing the as-built conditions.

A full five percent (5%) retention will be deducted from all progress payments. The final retention will be authorized for final payment thirty-five (35) days after the date of recordation of the Notice of Completion.

The Contractor, however, may receive interest on the retained amount, or receive the retained amount itself so long as the securities equivalent to the retained amounts are substituted with escrow holder approved by the Agency.

At the request and expense of the Contractor, retained amounts or securities equivalent to the retained amounts may be deposited with the State Treasurer or a State or Federally-chartered bank as the escrow agent, who shall return such monies or securities to the Contractor upon satisfactory completion of the contract.

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Surety eligible for investment shall include those listed in Section 16430 of the State Government Code or bank or savings and loan certificates of deposit, interest bearing demand deposit accounts and stand-by letters of credit.

Any escrow agreement entered into and shall be substantially similar to the form "Escrow Agreement for Security Deposits" in lieu of retention as contained in Section 4590 of Chapter 13 of Division 5 Title 1 of the Government Code.

7-3.3 Delivered Materials.

Delete in its entirety and replace with the following:

The monthly estimate prepared by the Engineer shall include an amount to cover partial payment for certain materials purchased by the Contractor. Said amount will include 80 % of the value of all acceptable materials and equipment for the Contract that have been delivered and suitably stored at the project site but not yet used in the Work, provided any such individual item has a value of more than \$5,000 and will become a permanent part of the improvement. Said value will be based on certified copies of invoices delivered by the Contractor to the Engineer. Payment will not be issued without certified copies of invoices. Requests for partial payment for materials on hand must be made by the Contractor on forms provided by the Engineer.

7-3.4 Mobilization.

Delete this subsection in its entirety and replace with the following:

Mobilization shall include the obtaining of all permits, insurance, and bonds; moving onto the site of all equipment; furnishing and erecting, temporary buildings, and other construction facilities; all as required for the proper performance and completion of the Work.

Mobilization shall include, but not be limited to, the following principal items:

- a. Installing temporary construction power and wiring.
- b. Developing construction water supply.
- c. Providing field office trailers for the Contractor.
- d. Providing on-site sanitary facilities and portable water facilities.
- e. Arranging for, and erection of, Contractor's Work and storage yard.
- f. Submittal of all required subcontractor insurance certificates and bonds.
- g. Obtaining all required permits.
- h. Posting all OSHA required notices and establishment of safety programs.
- i. Have the Contractor's superintendent at the job site full time with a pager and cellular phone.
- j. Demobilization.
- k. Construction site cleanup.

Payment for mobilization and demobilization is unique since there are various sites throughout the City of Del Mar. Contractor shall include mobilization and demobilization in each item of Work listed in the Bid Schedule and no additional compensation shall be allowed. No payment for

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mobilization, or any part thereof will be approved for payment under the contract until mobilization items listed above have been successfully completed and the Contractor is ready to move onto the next item of Work. The amount of the Contractor's bid which will be allowed for mobilization shall be limited to a maximum 6.0 percent of the total bid amount, unless the Contractor can show written proof that his actual mobilization exceeds that amount. The Agency shall retain 25% of the mobilization allowance for demobilization. Payment for demobilization will be made following the completion of each Work item.

7-4 PAYMENT FOR EXTRA WORK.

7-4.2 Basis for Establishing Costs.

7-4.2.3 Tools and Equipment Rental.

Delete the second paragraph in its entirety and replace with the following:

The rates to be used in determining equipment rental costs shall be those rates listed for such equipment in the State of California, Department of Transportation publication entitled “Equipment Rental Rates and General Prevailing Wage Rates,” which is in effect on the date upon which the Work is accomplished, regardless of ownership and any rental or other agreement entered into by the Contractor, if such may exist for the use of such equipment. If it is deemed necessary by the Engineer to use equipment not listed in the said publication, a suitable rental rate for such equipment will be established by the Engineer. The Contractor may furnish any cost data which might assist the Engineer in the establishment of such rental rate.

7-4.3 Markup.

7-4.3.1 Work by Contractor

Delete in its entirety and replace with the following:

- a) Work paid under Allowance Bid items for permits, governmental fees, or direct payments specified in the Contract Documents shall not be subject to any markups.
- b) The allowance for overhead and profit shall not exceed the values listed in the table below:

Component	Overhead	Profit
Labor	10%	5%
Material	10%	5%
Equipment	10%	5%

- c) Markups for materials shall be applied to the actual cost of the material before applying the sales tax.
- d) When a Subcontractor is performing extra work, the allowance for overhead and profit shall be applied to the labor, materials, and equipment costs of the Subcontractor as follows:
 - 1) Regardless of the number of Subcontractor tasks for Extra Work, Contractor may only apply 10% for the first \$50,000 of the Subcontractor’s portion of accumulated total cost.

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- 2) If the accumulated costs of single or subsequent tasks exceed the \$50,000 threshold, Contractor shall instead only apply 5% to any amounts in excess of the \$50,000.
- 3) Contractor shall not apply 10% to any costs after the first \$50,000 of accumulated total costs from performing Extra Work.
- 4) Regardless of the number of hierarchical tiers of Subcontractors, Contractor may only markup a Subcontractor’s Work once.

Add the following new section:

7-6 BID ITEMS. Payment for the work included in each Bid Item shall be made at the actual quantity constructed, using the units listed in the Bid Schedule and the Unit Prices included in the BID. All other work shown or mentioned on the Plans, in the Specifications, or in any one of the Contract Documents shall be considered as included in the related Bid Items shown in the Bid Schedule. The Contractor must complete all work that is shown or described in the Contract Documents, whether or not there is a specific Bid Item for that work, and no additional compensation shall be allowed.

MOBILIZATION, DEMOBILIZATION AND CLEANUP – (BID ITEM NO. 1) LUMP SUM

This Work consists of providing additional mobilization, demobilization, final cleanup, bonds, insurance, financing, temporary facilities, public notification fliers, and moving equipment to and from the job site, restoration of laydown or staging areas to their original condition.

See section 7-3.4 Mobilization of the Modifications and Standard Specifications for details regarding this item.

Payment for this item shall be made at the contract lump sum price and shall be considered full compensation for mobilization and demobilization, along with any incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made. 75% of the total price of this item shall be paid with the first monthly progress payment to the Contractor after award of the contract and 25% shall be paid with the final progress payment.

CLEARING AND GRUBBING AND DEMOLITION– (BID ITEM NO. 2) LUMP SUM

This Work consists of protection of all items to remain, saw-cutting, demolition and disposal of existing improvements, salvaging existing materials and improvements as specified or shown on the Plans, removal of deleterious materials, and proper disposal from the Project site of all existing surface and subsurface materials as required to construct the improvement as shown on the Plan Set and as described in the Specifications. Typical items to be removed include, but are not limited to, trash, vegetation or organic materials, soil, spoils, debris, and all other objectionable materials which interfere with the Work whether or not specifically indicated on the Plans or otherwise shown to be protected or relocated. Abandoned utility lines and structures not removed with Engineer’s approval shall be filled with grout or slurry, as recommended by the City’s Geotech, and conduits plugged. Concrete and bituminous pavement shall be removed to neatly sawed edges.

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All removed materials not indicated for salvage, re-use or re-cycle shall become the property of the Contractor and shall be disposed of offsite at a legal site or recycling facility.

See sections 300-1 Clearing and Grubbing and 401 Removal of the Modifications, Standard Specifications, and Plans for additional details regarding this item.

Payment for this item shall be made at the contract lump sum price and shall be considered full compensation for furnishing all labor, materials, tools, equipment, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made. Item shall be paid at percent complete (calculated based on approximate square footage complete divided by total square footage in plan for the item) at each monthly progress payment to the Contractor.

TRAFFIC CONTROL IMPLEMENTATION – (BID ITEM NO. 3) LUMP SUM

This Work shall consist of furnishing and installation of all traffic control measures shown on the traffic control plans throughout construction, including for any vehicular, bicycle or pedestrian closures, delineation, lighted barricades, flashing arrow boards and changeable message signs, signing for detours, traffic channelization, "No Parking" signs, notifications, and public safety. Maintain streets open to traffic and provide a smooth and usable surface during construction and avoid dust pollution or unnecessary inconveniences to the public.

See sections 5-7 Safety, 600 Access, and 601 Temporary Traffic Control for Construction and Maintenance Work Zones of the Modifications, Standard Specifications, Traffic Control Manual, and Special Provisions for details regarding this item.

Payment for this item shall be made at the contract lump sum price and shall include full compensation for installation and maintenance of all traffic control measures, along with any incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made. Item shall be paid at overall project percent complete at each monthly progress payment to the Contractor.

CONSTRUCTION STAGING – (BID ITEM NO. 4) LUMP SUM

This Work consists of obtaining and maintaining, at your own cost, a construction staging area outside of the right of way or outside the boundaries of the Agency's property, unless a staging area is presented by the agency in an addendum. Any posted signs for or related to the staging area must be of professional quality and approved by the Engineer prior to placement. The staging area must be established, maintained, and removed in a manner acceptable to the Engineer and the owner of the land where the staging area is situated. The Contractor shall be solely responsible for the security and liability of the staging area. The staging area may be fenced, lighted and locked. Guard dogs are not allowed at the construction staging area. Such staging areas shall meet all requirements of applicable standards, codes, ordinances and laws, and shall be established at least five (5) Working Days prior to commencement of work.

See section 3-12.4 Storage of Equipment and Materials of the Modifications and Standard Specifications for details regarding this item.

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Payment for this item shall be made at the contract lump sum price and shall be considered full compensation for obtaining and maintaining a construction staging area, along with any incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made. Item shall be paid at overall project percent complete at each monthly progress payment to the Contractor.

**STORM WATER POLLUTION PREVENTION AND EROSION CONTROL BMPS –
(BID ITEM NO. 5) LUMP SUM**

Storm Water Pollution Prevention and Erosion Control shall consist of development and implementation of the Storm Water Pollution Prevention Plan (SWPPP) and erosion control for the project, installation, implementation and maintenance throughout the construction period and removal of all Best Management Practices (BMPs) specified in the SWPPP and as required by applicable codes. These requirements shall also apply to any offsite storage yards or construction laydown areas utilized for this project.

See section 3-12.6 Water Pollution Control of the Modifications and Standard Specifications for additional details regarding this item.

Payment for this item shall be made at the contract lump sum price and shall be considered full compensation for furnishing all labor, materials, tools, equipment, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made. Item shall be paid at overall project percent complete at each monthly progress payment to the Contractor.

The Contractor shall be responsible for fines, expenses, and schedule delays accruing as a result of notices of violation, enforcement actions, or fines proposed by regulatory agencies, and no additional compensation will be allowed. Fines/violations, from the regulatory agency to the City, will be back-charged to the Contractor, and payments withheld until the matter has been resolved to the satisfaction of the Engineer.

CONSTRUCTION SURVEY STAKING – (BID ITEM NO. 6) LUMP SUM

This Work consists of providing construction station lines, staking, and coordination as required for construction of the improvements. This Work also consists of providing calculation, setting temporary control point, setting final monumentation, preparing maps and filing with the County of San Diego, for the reestablishment of disturbed survey monuments. The Contractor is responsible for providing project construction staking or station control.

See section 3-10 Surveying of the Modifications and Standard Specifications for details regarding this item.

Payment for this item shall be made at the contract lump sum price and shall be considered full compensation for furnishing all labor, materials, tools, equipment, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation

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will be made. Item shall be paid at overall project percent complete at each monthly progress payment to the Contractor.

RECORD DRAWINGS (AS-BUILTS) – (BID ITEM NO. 7) LUMP SUM

This Work consists of providing, keeping and maintaining, on the jobsite, a clean, accurate full-size legible print set of Project plans that indicate all changes in the work, modifications and existing conditions that are different from what is shown on the Plans. The Contractor shall record the location, by stationing to nearest foot, and the depth, by elevation to the nearest tenth of a foot (+/- 0.1'), of all underground utility facilities. The Contractor shall record, by dimension and/or scale drawings, all construction as actually installed. All information necessary to maintain and/or service any concealed work shall be noted on the record drawings. The locations by station of sewer laterals and water services (both perpendicular and skewed) to their mains must be noted on the record drawings as well as any gas or other SDG&E facilities. Records shall be kept up to date with all entries checked by the Engineer before the work is buried or covered up. The Contractor shall make the Record Drawings available for review by the Engineer at any time.

See section 3-7.4 Record Drawings (“As-Built”) of the Modifications and Standard Specifications for details regarding this item.

Payment for this item shall be made at the contract lump sum price and shall be considered full compensation for furnishing all labor, materials, tools, equipment, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made. Item shall be 100% in the monthly progress payment following completion of the Work for item.

FULL DEPTH AC REMOVAL (9.5 INCHES MINIMUM) – (BID ITEM NO. 8) SQUARE FEET

This Work consists of sawcutting, removal and disposal of all existing asphalt concrete and underlying aggregate base materials, to the proposed lines and grades indicated on the Plans.

See section 401 Removal of the Modifications, Standard Specifications, and Plans for additional details regarding this item.

Payment for this item shall be made at the contract unit price per square feet of full depth asphalt concrete removal and shall be considered full compensation for furnishing all labor, materials, tools, equipment, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

REMOVE AND REINSTALL MAILBOX – (BID ITEM NO. 9) EACH

This Work consists of removal, salvaging, and reinstallation of mailboxes, complete in place, including, but not limited to, notification and coordination with the property owner, removal, salvaging mailbox and mounting hardware, and reinstallation, cleaning, and appurtenances. The mailbox post at 1557 San Dieguito Drive shall be replaced in kind.

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See section 401 Removal of the Modifications, Standard Specifications, and Plans for additional details regarding this item.

Payment for this item shall be made at the contract unit price per each mailbox removed and reinstalled and shall be considered full compensation for furnishing all labor, materials, tools, equipment, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

REMOVE EXISTING AC BERM / DIKE / CURB – (BID ITEM NO. 10) LINEAR FEET

This Work consists of sawcutting, removal and disposal of AC berm / dike / curb and underlying base materials (if applicable).

See section 401 Removal of the Modifications, Standard Specifications, and Plans for additional details regarding this item.

Payment for this item shall be made at the contract unit price per linear feet of asphalt concrete berm / dike / curb removed and shall be considered full compensation for furnishing all labor, materials, tools, equipment, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

REMOVE AND REINSTALL WOODEN FENCE – (BID ITEM NO. 11) LINEAR FEET

This Work consists of removing, salvaging, and reinstalling existing wooden fence, including gates, complete in place, including, but not limited to, removal and disposal of concrete foundations / footings, including excavation, disposal, and backfilling resultant void; removal, salvaging, and reinstalling attachment hardware, posts, panels, hangers, and all other fence appurtenances, with new concrete foundations / footings; removal, salvaging, and returning attached signage / decorations to owner.

See section 401 Removal of the Modifications, Standard Specifications, and Plans for additional details regarding this item.

Payment for this item shall be made at the contract unit price per linear feet of wooden fence removed and reinstalled and shall be considered full compensation for furnishing all labor, materials, tools, equipment, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made. Item shall only be paid for once for a given length of fence/gate and no additional compensation shall be allowed for additional relocating.

REMOVE AND REINSTALL METAL FENCE – (BID ITEM NO. 12) LINEAR FEET

This Work consists of removing, salvaging, and reinstalling existing metal fence, including gates, complete in place, including, but not limited to, removal and disposal of concrete foundations / footings, including excavation, disposal, and backfilling resultant void; removal, salvaging, and reinstalling attachment hardware, posts, panels, hangers, and all other fence appurtenances, with new concrete foundations / footings; removal, salvaging, and returning attached signage / decorations to owner.

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See section 401 Removal of the Modifications, Standard Specifications, and Plans for additional details regarding this item.

Payment for this item shall be made at the contract unit price per linear feet of metal fence removed and reinstalled and shall be considered full compensation for furnishing all labor, materials, tools, equipment, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made. Item shall only be paid for once for a given length of fence/gate and no additional compensation shall be allowed for additional relocating.

REMOVE AND REINSTALL LANDSCAPING BLOCK WALL – (BID ITEM NO. 13) LINEAR FEET

This Work consists of removing, salvaging, and reinstalling existing landscaping block wall, to the same height, including coordination with the wall owner, complete in place, including, but not limited to, removal of foundations / footings; salvaging and reinstalling blocks and hardware; new mortar / grout / concrete; excavation, disposal, and backfilling; disposal, and appurtenances.

See section 401 Removal of the Modifications, Standard Specifications, and Plans for additional details regarding this item.

Payment for this item shall be made at the contract unit price per linear feet of landscaping block wall removed and reinstalled and shall be considered full compensation for furnishing all labor, materials, tools, equipment, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

ADJUST HANDHOLES TO FINISH GRADE – (BID ITEM NO. 14) EACH

This Work consists of adjusting handholes to finish grade, including, but not limited to, excavation, backfill, adjustment rings, shims, concrete, asphalt, and coordination with the Utility company.

See section 403 Manhole Adjustment and Reconstruction of the Modifications, Standard Specifications, and Plans for additional details regarding this item.

Payment for this item shall be made at the contract unit price per each handhole adjusted and shall be considered full compensation for furnishing all labor, materials, tools, equipment, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

ADJUST WATER VALVE TO FINISH GRADE – (BID ITEM NO. 15) EACH

This Work consists of adjusting water valve to finish grade, including, but not limited to, excavation, backfill, adjustment rings, shims, concrete, and asphalt.

See section 403 Manhole Adjustment and Reconstruction of the Modifications, Standard Specifications, and Plans for additional details regarding this item.

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Payment for this item shall be made at the contract unit price per each water valve adjusted and shall be considered full compensation for furnishing all labor, materials, tools, equipment, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

ADJUST WATER METER BOX TO FINISH GRADE – (BID ITEM NO. 16) EACH

This Work consists of adjusting water meter box to finish grade, including, but not limited to, excavation, backfill, adjustment rings, shims, concrete, asphalt, and cleaning box.

See section 403 Manhole Adjustment and Reconstruction of the Modifications, Standard Specifications, and Plans for additional details regarding this item.

Payment for this item shall be made at the contract unit price per each water meter box adjusted and shall be considered full compensation for furnishing all labor, materials, tools, equipment, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

RELOCATE WATER METER – (BID ITEM NO. 17) EACH

This Work consists of relocating water meter, complete in place, including, but not limited to, coordination with the City; disconnecting and removing existing meter service, existing water service reconnection, relocating water meter and box, copper pipe, service saddles; reconnections to customer line and water main; excavation, disposal, backfill, compaction, asphalt; furnishing copper pipe, aggregate, thrust blocks, sealants, anodes, wire, tracer wire, and warning tape; and relocating and installing meter assembly and meter box.

See section 402 Utilities of the Modifications, Standard Specifications, and Plans for additional details regarding this item.

Payment for this item shall be made at the contract unit price per each water meter relocated and shall be considered full compensation for furnishing all labor, materials, tools, equipment, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

ADJUST GAS VALVE TO FINISH GRADE – (BID ITEM NO. 18) EACH

This Work consists of adjusting gas valve to finish grade, including, but not limited to, excavation, backfill, adjustment rings, shims, concrete, asphalt, and coordination with the Gas company.

See section 403 Manhole Adjustment and Reconstruction of the Modifications, Standard Specifications, and Plans for additional details regarding this item.

Payment for this item shall be made at the contract unit price per each gas valve adjusted and shall be considered full compensation for furnishing all labor, materials, tools, equipment, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

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IRRIGATION RELOCATION – (BID ITEM NO. 19) LUMP SUM

This Work consists of relocating and reconnecting irrigation, including relocating irrigation heads and piping, electrical connections, wiring and other appurtenances, piping, water connections, trench repair, filling the resultant void to adjacent grades, coordination with owner / utility agency for water shut-off / turn-on, coordination, testing, cleanup, and adjustments necessary for a complete operating system, ready for immediate use upon completion.

See sections 400 Protection and Restoration and 401 Removal of the Modifications, Standard Specifications, and Plans for details regarding this item.

Payment for this item shall be made at the contract lump sum price and shall be considered full compensation for furnishing all labor, materials, tools, equipment, cleaning, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made. Item shall be paid 100% in the monthly progress payment following completion of all the Work for item.

MISCELLANEOUS LANDSCAPING AND HARDSCAPE REPLACEMENTS – (BID ITEM NO. 20) LUMP SUM

This Work consists of removal and replacing of miscellaneous landscaping and hardscape in kind, including, but not limited to, excavation, plantings, and storage of salvaged materials.

See section 401 Removal of the Modifications, Standard Specifications, and Plans for details regarding this item.

Payment for this item shall be made at the contract lump sum price and shall be considered full compensation for furnishing all labor, materials, tools, equipment, cleaning, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made. Item shall be paid 100% in the monthly progress payment following completion of all the Work for item.

SITE GRADING (EXPORT) – (BID ITEM NO. 21) CUBIC YARD

This Work consists of site grading and for doing all work involved in unclassified excavation an unclassified fille, including, but not limited to, export earthwork, rough grading on-site, excavation, placing suitable fill, export, sloping, rounding tops and ends of excavations, loading, drying and/or mixing material as needed prior to placing as compacted fill, stockpiling, hauling it to its final location, and moisture conditioning and compaction. This Work shall be subject to inspection/testing by City’s Geotech.

See sections 300-2 Unclassified Excavation and 300-4 Unclassified Fill of the Modifications, Standard Specifications, and Plans for details regarding this item.

Payment for this item shall be made at the contract unit price per cubic yard of site grading and shall be considered full compensation for furnishing all labor, materials, tools, equipment, testing,

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incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

Excavate and Fill shall only be paid for once for a given volume of material and no additional compensation shall be allowed for additional moving or stockpiling.

Any fill beyond the limits shown on the approved Plans or as required in these Project Specifications without the authorization of the City’s Engineer will be at the Contractor’s expense.

Excavation and backfilling of resultant voids of removal items shall not be paid under Site Grading earthwork, but shall be included in the items of work being removed.

Excavation and backfill, for fitting in extruder machinery or forms during the concrete construction, shall not be paid under Site Grading earthwork, but shall be included in the items of work being constructed.

It is anticipated that after earthwork balance, there will be excess earthwork to be exported. Excess earthwork will become the property of the Contractor and shall be exported offsite to a legal stockpile location.

REMEDIAL GRADING – (BID ITEM NO. 22) CUBIC YARD

This Work consists of remedial grading, including, but not limited to, overexcavation, stockpiling, spreading, drying and/or mixing, moisture conditioning, and recompaction. This Work shall be subject to inspection/testing by City’s Geotech.

See section 300-2.2 Unsuitable Material of the Modifications, Standard Specifications, and Plans for details regarding this item.

Payment for this item shall be made at the contract unit price per cubic yard of remedial grading and shall be considered full compensation for furnishing all labor, materials, tools, equipment, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

Scarifying and recompaction will not be paid under Remedial Grading or any other Earthwork item, but shall be included in the individual items of work with subgrade preparation.

ASPHALT CONCRETE (AC) PAVEMENT – (BID ITEM NO. 23) TON

This Work consists of preparing subgrade, applying tack coat, and furnishing, placing, and compacting Asphalt Concrete (AC) pavement, asphalt patch, and asphalt concrete overlay to the thickness shown on the Plans. AC pavement shall include asphalt concrete for the surface and the base course for pavement and driveway pavement. This Work shall be subject to inspection/testing by City’s Geotech.

AC shall be measured by the Ton weight of the combined mixture. The weight shall be determined as provided in Section 302-5.9, Measurement and Payment, of the Modifications. Material which

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is delivered to the project site and not used or is rejected, and specifically material which is delivered to the site in excess of that actually needed, shall not be paid for. The Contractor shall provide weight tickets, which clearly indicate the quantity of asphalt concrete delivered.

See sections 203-6 Asphalt Concrete and 302-5 Asphalt Concrete Pavement of the Modifications, Standard Specifications, and Plans for details regarding this item.

Payment for this item shall be made at the contract unit price per ton of asphalt concrete pavement and shall be considered full compensation for furnishing all labor, materials, tools, equipment, cleaning, transportation, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

Payment for full depth AC patch back, for curbs and gutters and curb ramps and other hardscape construction, will be included in the price paid for the adjacent concrete items of work and no separate measurement and payment shall be made for Asphalt Concrete (AC) and for furnishing all labor, materials, tools, equipment, cleaning, transportation, subgrade preparation, tack coat, asphalt placement, compaction, materials testing, incidentals, and for doing all work involved, complete detailed, for the duration of the project.

AGGREGATE BASE (AB) – (BID ITEM NO. 24) CUBIC YARD

This Work consists of furnishing and installation of Aggregate Base, including, but not limited to, subgrade preparation which includes scarification and recompaction, compaction, and water for compaction. This Work shall be subject to inspection/testing by City’s Geotech. The aggregate base quantity includes replacement of the existing slurry backfill with a uniform layer of aggregate base.

See sections 200-2 Untreated Base Materials and 301-2 Untreated Base of the Modifications, Standard Specifications, and Plans for details regarding this item.

Payment for this item shall be made at the contract unit price per cubic yard of aggregate base and shall be considered the full compensation for furnishing all labor, materials, tools, equipment, cleaning, transportation, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

GRAVEL PARKING AREA (4” THICK) – (BID ITEM NO. 25) SQUARE FEET

This Work consists of furnishing and installing a 4” thick gravel parking area, including, but not limited to, excavation, backfill, grading and compacting the subgrade, herbicide spraying, stabilizer, blending, placing, watering, and compacting the gravel.

See sections 200-1 Rock Products and 301-6 Gravel of the Modifications, Standard Specifications, and Plans for details regarding this item.

Payment for this item shall be made at the contract unit price per square feet of gravel parking area and shall be considered the full compensation for furnishing all labor, materials, tools, equipment,

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testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

ROLLED CURB AND GUTTER, TYPE A, PER SDRSD G-4A – (BID ITEM NO. 26)
LINEAR FEET

This Work consists of furnishing and installation of rolled curb and gutter, type A, per SDRSD G-4A, including, but not limited to, all sawcutting, forms, joints, finishes and keyways, backfill, base preparation, doweling, and any painting of curb, such as the delineation of parking restriction locations. Rolled curb & gutter at driveways shall be Type III (HES) cement.

See sections 201-1 Portland Cement Concrete and 303-5 Concrete Curbs, Walks, Gutters, Cross Gutters, Alley Intersections, Access Ramps, and Driveways of the Modifications, Standard Specifications, and Plans for details regarding this item.

Payment for this item shall be made at the contract unit price per linear feet of roll curb and shall be considered the full compensation for furnishing all labor, materials, tools, equipment, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

Payment for curb height transitions, to match adjacent curbs, will be measured and paid for as the standard curb and gutter adjacent to the transitions if not specified on the bid list.

No additional compensation shall be included for repairing or replacing adjacent areas excavated or damaged for the placement of forms,

No additional compensation shall be included for sawcutting, replacement of damaged curb, curb slot asphalt patch back, or for additional pavement removal and replacement for fitting in extruder machinery or forms during the construction of curb, but shall be included in the cost of Rolled Curb and Gutter (per designated type and standard drawing).

RESIDENTIAL CONCRETE DRIVEWAY – (BID ITEM NO. 27) SQUARE FEET

This Work consists of furnishing and installation of residential concrete driveway, 5.5-inch thickness, including, but not limited to, all sawcutting, grading, base preparation, concrete, forms, joints, and finishes.

See sections 201-1 Portland Cement Concrete and 303-5 Concrete Curbs, Walks, Gutters, Cross Gutters, Alley Intersections, Access Ramps, and Driveways of the Modifications, Standard Specifications, and Plans for details regarding this item.

Payment for this item shall be made at the contract unit price per square feet of residential concrete driveway and shall be considered the full compensation for furnishing all labor, materials, tools, equipment, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

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No additional compensation shall be included for repairing, restoring, or replacing adjacent areas excavated or damaged for the placement of forms.

ASPHALT CONCRETE DRIVEWAY – (BID ITEM NO. 28) SQUARE FEET

This Work consists of furnishing and installation of asphalt concrete driveway, 4.5-inch AC with 5-inch underlying aggregate base, including, but not limited to, all sawcutting, grading, base preparation, aggregate base, prime coat, and tack coat.

See sections 200-2 Untreated Base Materials, 203-6 Asphalt Concrete and 302-5 Asphalt Concrete Pavement of the Modifications, Standard Specifications, and Plans for details regarding this item.

Payment for this item shall be made at the contract unit price per square feet of asphalt concrete driveway and shall be considered the full compensation for furnishing all labor, materials, tools, equipment, cleaning, transportation, compaction, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

CURB AND GUTTER, TYPE G, PER SDRSD G-02 – (BID ITEM NO. 29) LINEAR FEET

This Work consists of furnishing and installation of curb and gutter, type G, per SDRSD G-02, including, but not limited to, all sawcutting, forms, joints, finishes, backfill, base preparation, doweling, protection of existing trees, parkway restoration, and painting of curb, such as address numbers or the delineation of parking restriction locations.

See sections 201-1 Portland Cement Concrete and 303-5 Concrete Curbs, Walks, Gutters, Cross Gutters, Alley Intersections, Access Ramps, and Driveways of the Modifications, Standard Specifications, and Plans for details regarding this item.

Payment for this item shall be made at the contract unit price per linear feet of curb and gutter and shall be considered the full compensation for furnishing all labor, materials, tools, equipment, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

Payment for curb and gutter transitions, to match adjacent curbs and gutters, and rolled curb and gutter, will be measured and paid for as the standard curb and gutter adjacent to the transitions if not specified on the bid list.

No additional compensation shall be included for repairing or replacing adjacent areas excavated or damaged for the placement of forms.

No additional compensation shall be included for sawcutting, replacement of damaged curb, curb slot asphalt patch back, or for additional pavement removal and replacement for fitting in extruder machinery during the construction of curb and gutter, but shall be included in the cost of Curb and Gutter (per designated type, and standard drawing / detail).

CURB AND GUTTER, TYPE H, PER SDRSD G-02 – (BID ITEM NO. 30) LINEAR FEET

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This Work consists of furnishing and installation of curb and gutter, type H, per SDRSD G-02, including, but not limited to, all sawcutting, forms, joints, finishes, backfill, base preparation, doweling, protection of existing trees, parkway restoration, and painting of curb, such as address numbers or the delineation of parking restriction locations.

See sections 201-1 Portland Cement Concrete and 303-5 Concrete Curbs, Walks, Gutters, Cross Gutters, Alley Intersections, Access Ramps, and Driveways of the Modifications, Standard Specifications, and Plans for details regarding this item.

Payment for this item shall be made at the contract unit price per linear feet of curb and gutter and shall be considered the full compensation for furnishing all labor, materials, tools, equipment, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

Payment for curb and gutter transitions, to match adjacent curbs and gutters, and rolled curb and gutter, will be measured and paid for as the standard curb and gutter adjacent to the transitions if not specified on the bid list.

No additional compensation shall be included for repairing or replacing adjacent areas excavated or damaged for the placement of forms.

No additional compensation shall be included for sawcutting, replacement of damaged curb, curb slot asphalt patch back, or for additional pavement removal and replacement for fitting in extruder machinery during the construction of curb and gutter, but shall be included in the cost of Curb and Gutter (per designated type, and standard drawing / detail).

6 INCH CURB PER SDRSD G-01 – (BID ITEM NO. 31) LINEAR FEET

This Work consists of furnishing and installation of 6-inch curb per SDRSD G-01, including, but not limited to, all sawcutting, forms, joints, finishes and keyways, backfill, base preparation, doweling, and any painting of curb, such as the delineation of parking restriction locations.

See sections 201-1 Portland Cement Concrete and 303-5 Concrete Curbs, Walks, Gutters, Cross Gutters, Alley Intersections, Access Ramps, and Driveways of the Modifications, Standard Specifications, and Plans for details regarding this item.

Payment for this item shall be made at the contract unit price per linear feet of curb and shall be considered the full compensation for furnishing all labor, materials, tools, equipment, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

Payment for curb height transitions, to match adjacent curbs and gutters, and rolled curb, will be measured and paid for as the standard curb and gutter adjacent to the transitions if not specified on the bid list.

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No additional compensation shall be included for repairing or replacing adjacent areas excavated or damaged for the placement of forms.

No additional compensation shall be included for sawcutting, replacement of damaged curb, curb slot asphalt patch back, or for additional pavement removal and replacement for fitting in extruder machinery or forms during the construction of curb, but shall be included in the cost of Curb (per designated height and standard drawing).

MASONRY RETAINING WALL, TYPE 6, PER SDRSD C-06 – (BID ITEM NO. 32) SQUARE FEET

This Work consists of furnishing and installation of masonry retaining wall, type 6, per SDRSD C-06, including, but not limited to, structure excavation and backfill, compaction, haul off, masonry units, footings, mortar, grout, concrete, reinforcement, joints, stone veneer and cap, anti-graffiti coating, wall drains, filter material, screens, and appurtenances. This Work shall be subject to inspection/testing by City’s Geotech.

See sections 201-1 Portland Cement Concrete, 202-2 Concrete Block, 303-1 Concrete Structures, and 303-4 Masonry Construction of the Modifications, Standard Specifications, and Plans for details regarding this item.

Payment for this item shall be made at the contract unit price per square feet of masonry retaining wall and shall be considered the full compensation for furnishing all labor, materials, tools, equipment, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

18 INCH RCP STORM DRAIN – (BID ITEM NO. 33) LINEAR FEET

This Work consists of furnishing and installation of 18-inch reinforced concrete pipe (RCP) storm drain, including, but not limited to, sawcut, open trench operations, excavation, earthwork, disposal, control of ground and surface water, subgrade preparation, furnishing and laying pipe, gaskets, connections, bedding, pipe zone material, backfill, removal of unsuitable material from native backfill, compacting, slurry, trench repair, temporary and permanent resurfacing, shoring, bracing and protecting existing utilities, removing existing plug when connecting to existing pipes, material testing, and appurtenances.

See sections 207-2 Reinforced Concrete Pipe (RCP) and 306 Open Trench Conduit Construction of the Modifications, Standard Specifications, and Plans for details regarding this item.

Payment for this item shall be made at the contract unit price per linear feet of RCP storm drain and shall be considered the full compensation for furnishing all labor, materials, tools, equipment, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

12 INCH PVC PIPE – (BID ITEM NO. 34) LINEAR FEET

This Work consists of furnishing and installation of 12-inch polyvinyl chloride (PVC) pipe, including, but not limited to, sawcut, trenching, excavation, earthwork, disposal, control of ground

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and surface water, subgrade preparation, furnishing and laying pipe (color per designated use), sealants, bends, connections, joining of pipe, indicator/identification tape, bedding, pipe zone material, backfill, removal of unsuitable material from native backfill, compacting, slurry, trench repair, temporary and permanent resurfacing, shoring, bracing and protecting existing utilities, material testing, and appurtenances.

See sections 207-17 PVC Gravity Pipe and 306 Open Trench Conduit Construction of the Modifications, Standard Specifications, and Plans for details regarding this item.

Payment for this item shall be made at the contract unit price per linear feet of PVC pipe and shall be considered the full compensation for furnishing all labor, materials, tools, equipment, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

CURB INLET, TYPE C, PER SDRSD D-03A/B – (BID ITEM NO. 35) EACH

This Work consists of furnishing and installation of curb inlet, type C, per SDRSD D-03A/B, including, but not limited to, manhole frame and cover, miscellaneous metal, reinforcement, expansion joints, finishing and curing, joining of pipe, excavation and backfill, control of ground and surface water, subgrade preparation, adjustments to rough grade or final AC pavement, temporary and permanent resurfacing, stenciling, and appurtenances.

See sections 201-1 Portland Cement Concrete and 303-1 Concrete Structures of the Modifications, Standard Specifications, and Plans for details regarding this item.

Payment for this item shall be made at the contract unit price per each curb inlet and shall be considered the full compensation for furnishing all labor, materials, tools, equipment, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

MODULAR WETLAND – (BID ITEM NO. 36) EACH

This Work consists of furnishing and installation of modular wetland, including, but not limited to, the vault with manhole frame and cover, filter components, plantings, riser, drain pipe, mesh screens, basket, pervious pavers, cleanout, chambers, transfer system, gravel bedding, mounting hardware, fasteners, support brackets, support frame, connections, joining of the pipe, excavation and backfill, control of ground and surface water, subgrade preparation, geotextile, crushed rock, adjustments to final surface, temporary and permanent resurfacing, and appurtenances.

Modular Wetlands System shall be per dimensions specified in the plans, materials shown on the Modular Wetlands System details, and manufactured by Contech Engineered Solutions (www.conteches.com), or approved equal. Model MWS-L shall be Linear vaults per the dimensions shown on the plans (numbers following model MWS-L represent the length and width of the vault).

Modular Wetland System Linear units shall be installed pursuant to the manufacturer's

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recommendations, the Modular Wetlands drawings, and shall be installed flush to the lip of the adjacent concrete. The Modular Wetland Systems – Linear (MWS-L) units shall be fabricated and installed to accommodate the longitudinal slopes of the adjacent curb & gutter slope. The plantings in the Modular Wetland Systems shall adhere to 801-6 Maintenance and Plant Establishment of the Standard Specifications.

Payment for this item shall be made at the contract unit price per each modular wetland and shall be considered the full compensation for furnishing all labor, materials, tools, equipment, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

Excavation, subgrade preparation, backfill, compaction, and all other necessary earthwork for the construction of the Modular Wetland or City-approved equal shall be included in the cost of the Modular Wetland contract unit price item and shall not be part of the unclassified excavation quantity.

SPLASH PAD – (BID ITEM NO. 37) EACH

This Work consists of furnishing and installation of splash pad, including, but not limited to, excavation, compaction, subgrade preparation, placing, rip rap, and complete in place.

See sections 200-1.6 Rock for Slope and Erosion Protection (Riprap) and 300-11 Rock Slope and Erosion Protection (Riprap) of the Modifications, Standard Specifications, and Plans for details regarding this item.

Payment for this item shall be made at the contract unit price per each splash pad and shall be considered the full compensation for furnishing all labor, materials, tools, equipment, transporting, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

REMOVE AND SALVAGE EXISTING TRAFFIC SIGNS AND POSTS – (BID ITEM NO. 38) EACH

This Work consists of removing, salvaging, and reinstalling existing sign(s) at proposed locations per SDRSD M-45, complete in place, including, but not limited to, removal and disposal of concrete foundations/footing/anchor post, post, mounting hardware, and salvaging all sign panels on post, and reinstalling with new hardware, mounting hardware and fasteners, anchoring, and break-away sign post.

See sections 218 Signage and 401 Removal of the Modifications, Standard Specifications, and Plans in accordance with the California Manual on Uniform Traffic Control Devices (CMUTCD), latest edition, and the provision in Section 82-3, “Roadside Signs,” of the Caltrans Standard Specifications for details regarding this item.

Any chipping or bending of sign panels shall be considered as sufficient cause to require replacement of panels with prior direction from the Engineer. Sign panels shall be attached to metal posts, sign structure posts with fastening hardware of the types and sizes as directed by the

MODIFICATIONS TO THE STANDARD SPECIFICATIONS “GREENBOOK” PART 1 – GENERAL PROVISIONS

Engineer. Sign panels shall be installed to provide approximately 7-foot vertical clearance from finish grade to the bottom of the sign panel, unless otherwise direct by the Engineer.

Payment for this item shall be made at the contract unit price per each traffic sign and post and shall be considered the full compensation for furnishing all labor, materials, tools, equipment, transporting, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

TRAFFIC SIGN AND POST – (BID ITEM NO. 39) EACH

This Work consists of installing new sign(s) at proposed locations per SDRSD M-45, complete in place, including, but not limited to, installing with new hardware, mounting hardware and fasteners, anchoring, and break-away sign post.

See sections 218 Signage of the Modifications, Standard Specifications, and Plans in accordance with the California Manual on Uniform Traffic Control Devices (CMUTCD), latest edition, and the provision in Section 82-3, “Roadside Signs,” of the Caltrans Standard Specifications for details regarding this item.

Any chipping or bending of sign panels shall be considered as sufficient cause to require replacement of panels with prior direction from the Engineer. Sign panels shall be attached to metal posts, sign structure posts with fastening hardware of the types and sizes as directed by the Engineer. Sign panels shall be installed to provide approximately 7-foot vertical clearance from finish grade to the bottom of the sign panel, unless otherwise direct by the Engineer.

Payment for this item shall be made at the contract unit price per each traffic sign and post and shall be considered the full compensation for furnishing all labor, materials, tools, equipment, transporting, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made.

PAVEMENT STRIPING, MARKINGS, AND MARKERS – (BID ITEM NO. 40) LUMP SUM

This Work consists of furnishing and installation of pavement striping, markings, and symbols, and reflective pavement markers, including, but not limited to, removals of existing pavement markings.

See sections 214 Traffic Striping, Curb and Pavement Markings, and Pavement Markers and 314 Traffic Striping, Curb and Pavement Markings and Pavement Markers of the Modifications, Standard Specifications, and Plans for details regarding this item.

Payment for this item shall be made at the contract lump sum price and shall be considered full compensation for furnishing all labor, materials, tools, equipment, cleaning, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made. Item shall be paid at percent complete (calculated based on approximate square footage complete divided by total square footage in plan for the item) at each monthly progress payment to the Contractor.

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HYDROSEED – (BID ITEM NO. 41) LUMP SUM

This Work consists of the furnishing and installation of hydroseed, which includes a blend of fibrous material, stabilizer and native seed mix, for the restoration of landscaped areas disturbed by installation of new improvements including application of jute netting with mulch and hydroseed mix.

See sections 800 Materials and 801 Installation of the Modifications, Standard Specifications, and Plans for details regarding this item.

Payment for this item shall be made at the contract lump sum price and shall be considered full compensation for furnishing all labor, materials, tools, equipment, cleaning, testing, incidentals, and for doing all work involved, as specified herein, for the duration of the project and no additional compensation will be made. Item shall be paid at percent complete (calculated based on approximate square footage complete divided by total square footage in plan for the item) at each monthly progress payment to the Contractor.

7-7 ADVERTISING.

7-7.1 City of Del Mar Project Information Signs.

Before the start of any work, the Contractor shall design, supply, install, and maintain an aluminum 4' x 4' signs to inform the public about the Project. The signs shall be designed and made by a professional sign company. The Contractor shall submit the sign layout to the Engineer for approval before signs are fabricated.

Information on the sign shall include: City name with seal, Project name, limits of Project, month and year when Project shall begin and end, funding source(s).

Project Information Signs shall be posted with 4" x 4" wood posts within the parkway adjacent to the street at a location approved by the Engineer and at least seven feet (7') above the pedestrian travel way. Signs and sign posts shall be located within the public right-of-way and may not hinder or obstruct driver's line of sight. The text on the sign shall be large and legible from a distance. Signs shall be posted at least three (3) Working Days prior to start of construction and remain posted until the final job walk is completed. The signs shall then be removed and property disposed. Contractor shall be responsible for the maintenance of these signs until removed.

Full compensation for the Project Information Signs, including design, construction, deployment, maintenance, and salvage removal / delivery at project completion to the Agency's Public Works Yard at 2240 Jimmy Durante Blvd, and furnishing of all necessary labor, equipment, materials, and all other related costs shall be considered as included in the Bid price for "Project Information Sign." Payment for the Project Information Signs shall be paid under the lump sum price for Mobilization, Demobilization and Cleanup.

7-7.2 Public Notification.

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The Contractor shall prepare typewritten Public Notification fliers in English. Fliers shall notify residents and businesses of the Work and include information describing the Work, how it may affect them and contact information of Agency and Contractor personnel responsible for the work. The Engineer will provide the contact information for the Agency to be included on the flier at the Pre-Construction Meeting. The Contractor shall submit draft versions of the flier in English to the Engineer for review and approval prior to starting the Work. The Contractor shall provide advance notifications of the Work to residents and businesses adjacent to or affected by the Work by hand delivering “doorknob type” fliers distributed at least five (5) Working Days prior to Work.

These notices shall also be distributed at other times during the Work as required to notify affected people in the area of impending work, including, but not limited to, prior to commencing rehabilitation, resurfacing, or reconstruction work on streets that will affect access to traffic or pedestrians.

Based upon the work schedule, the Contractor shall notify residents and businesses of the work and post temporary “No Parking” signs to all residences and businesses located in the work limits and along any detour routes.

The Contractor shall provide additional notification for night work that creates excessive noise, as described in Subsection 3-12.3 (“Noise Control.”) of these Specifications.

Full compensation for the Public Notification shall include all necessary labor, equipment, materials, and all other related costs for preparation, copying, and distribution shall be considered as included in the lump sum price for Mobilization, Demobilization and Cleanup.

SECTION 8 - FACILITIES FOR AGENCY PERSONNEL

8-1 GENERAL.

Add the following:

No field offices for Agency personnel shall be required; however, the Agency personnel shall have the right to enter upon the project at all times and shall be admitted to the offices of the Contractor, at any time during the operation of the Work.

END OF PART 1

CHAPTER II

MODIFICATIONS TO THE STANDARD SPECIFICATIONS

“GREENBOOK” PART 2 – CONSTRUCTION MATERIALS

**MODIFICATIONS TO THE STANDARD SPECIFICATIONS
“GREENBOOK” PART 2 – CONSTRUCTION MATERIALS**

SECTION 200 – ROCK MATERIALS

200-1 ROCK PRODUCTS.

200-1.3 Gravel.

Add the following two new subsections:

200-1.3.1 General. The percentage composition by weight of gravel surfacing material, for parking areas, shall comply with the gradation requirements shown in the following table:

**Gravel Surfacing Material
Gradation Requirements**

Sieve size	Percentage passing
1”	-
3/4”	100
1/2”	-
No. 4	50-78
No. 8	37-67
No. 40	13-35
No. 200	8-15
Liquid Limit Max	30
Plasticity Index	8-15

Gravel material must have a sand equivalent value of not less than 75.

Stabilizer shall be calcium chloride, magnesium chloride, or resin based.

200-1.3.2 Field Conditions. Gravel surfacing shall be placed on compacted subgrade soils, as approved by the Geotechnical Consultant. Subgrade soils shall be compacted to a minimum 90 % relative compaction at optimum moisture content. Do not install stabilized decomposed granite surfacing when subgrade is saturated.

200-1.5 Sand.

200-1.5.1 General.

Add the following:

Sand for pipe bedding shall have a minimum S.E. of 30.

200-1.6 Rock for Slope and Erosion Protection (Riprap).

200-1.6.4 Rip Rap Splash Pad.

Add the following:

Stone shall be washed #2 stone or river rock per AASHTO M43. Broken concrete, asphalt pavement, and other non-rock materials may not be used unless otherwise directed by the

**MODIFICATIONS TO THE STANDARD SPECIFICATIONS
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Engineer. Rocks shall be of such shape as to form a stable protection structure of the required section.

200-2 UNTREATED BASE MATERIALS.

200-2.1 General.

Replace the first sentence with the following:

Untreated Base / Aggregate Base (AB) shall be Crushed Aggregate Base, which is equivalent to Caltrans Class 2 Aggregate Base (3/4” inch maximum) per Section 26, “Aggregate Bases,” of the Caltrans Standard Specifications. Recycled based shall not be used.

SECTION 201 - CONCRETE, MORTAR AND RELATED MATERIALS

201-1 PORTLAND CEMENT CONCRETE.

201-1.1.1 Requirements.

201-1.1.1 General.

Add the following:

Prepackage unmixed concrete shall not be allowed.

201-1.1.2 Concrete Specified by Class and Alternate Class.

Add the following:

The concrete class and maximum slump for the various types of construction shall be as follows:

<u>Type of Construction</u>	<u>Concrete Class</u>	<u>Maximum Slump (inches)</u>
Curb & Gutters, Sidewalks, Driveways	520-C-2500	4
Retaining Walls	560-C-3250	4
Curb Inlets	560-C-3250	5

201-1.2 Materials.

201-1.2.1 Cement.

Add the following:

All cement to be used for concrete shall be Type II/V, except rolled curb & gutter at driveways shall be Type III (HES) cement. A such, the contractor shall have the option to use Type III (HES) cement for curb & gutter in general.

201-1.2.2 Aggregates.

Add the following:

Aggregates shall comply with ASTM C 33 and shall be free from asbestos and any substances that will react with the cement alkalis.

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201-1.2.4 Chemical Admixtures.

Add the following:

Admixtures shall not contain chlorides or other corrosive elements to concrete.

201-2 REINFORCEMENT FOR CONCRETE.

201-2.2 Steel Reinforcement.

201-2.2.1 Reinforcing Steel.

Replace the first sentence with the following:

Reinforcing steel shall be Grade 60, hot rolled from new billet steel, conforming to ASTM A 615, unless otherwise noted on Plans.

SECTION 202 –MASONRY MATERIALS

202-2 CONCRETE BLOCK.

202-2.1 General.

Add the following:

Masonry Walls shall be constructed with masonry units and mortar conforming to Subsection 202-2.2, “Masonry Units,” and Subsection 202-3, “Mortar, Grout, and Water.”

202-2.2 Masonry Unit.

Add the following new paragraph:

Masonry retaining walls for electrical and telecommunication facilities shall be standard Concrete Masonry Unit Block (CMU) block with rebar, and “Creative Mines Craft Trail Ledge Mountain Lion” stone veneer wall finish and cap (similar to the photo shown below). The Contractor shall provide a submittal for the blocks, stone veneer, cap, and anti-graffiti coating system for approval by the City Representative.



Add the following new subsection:

202-2.2.1 Anti-Graffiti Coating. Anti-graffiti coating shall be Caltrans approved material and:

1. Be a nontoxic, sacrificial, nonflammable, water-based coating designed for protecting concrete from graffiti

**MODIFICATIONS TO THE STANDARD SPECIFICATIONS
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2. Be compatible with the stone veneer treatment
3. Have a clear matte finish when dry
4. Be removable with a hot pressure washer

SECTION 203 – BITUMINOUS MATERIALS

203-1 PAVING ASPHALT.

203-1.1 General.

Add the following:

The asphalt concrete design mix shall be submitted for approval a minimum of two (2) weeks prior to start of construction.

203-1.3 Test Reports and Certification.

Add the following:

The Contractor shall furnish asphalt in conformance with Caltrans “Certification Program for Suppliers of Asphalt.” Caltrans maintains the program requirements, procedures, and a list of approved suppliers.

The Contractor shall prevent the formation of carbonized particles caused by overheating asphalt during manufacturing or construction.

203-3 EMULSIFIED ASPHALT.

203-1.1 General.

Add the following:

Emulsified Asphalt for tack coat to existing asphalt pavement and contact with PCC surfaces shall be SS-1h slow setting anionic emulsion.

203-6 ASPHALT CONCRETE.

203-6.1 General.

Add the following:

Materials incorporated in the work shall be manufactured, handled and used in compliance with Section 203-6 of the Standard Specifications for Public Works Construction.

The Contractor shall furnish the Engineer, at least two (2) weeks prior to the start of work, with a list of material sources together with Certificates of Compliance, indicating that materials to be incorporated in the work fulfill the requirements of these specifications. The Certificates of Compliance shall be signed by the material supplier or representative. The Engineer may permit the use of paving materials, aggregate, cement line, anti-strip agents, asphalt, or any combination thereof prior to sampling and testing when accompanied by a Certificate of Compliance.

**MODIFICATIONS TO THE STANDARD SPECIFICATIONS
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203-6.2 Materials.

203-6.2.1 Asphalt Binder.

Add the following:

The amount of liquid asphalt, by weight, to be added to the aggregate shall be as specified by the Contractor, subject to approval by the City Engineer. The amount specified shall be within the general range of percentages of the total mixed materials. The actual amount, however, will be determined through a complete asphalt concrete mix design performed on materials intended for use on the project.

The allowable tolerance in percentage of asphalt content from that percentage specified by the engineer shall be 0.3 percent.

203-6.2.3 Rock Products for Type III Asphalt Concrete Mixtures.

Add the following:

Anti-Strip Agents: When aggregate is found to be subject to stripping via prescribed test procedures, dry hydrated lime conforming to the requirements of ASTM C 207, or Type N Portland cement conforming to applicable requirements, or other approved anti-strip agents shall be added. The other approved anti-strip agents are to be added in accordance with the manufacturer’s recommendations.

203-6.3 Job Mix Formula (JMF) and Mix Designs.

203-6.3.1 General.

Add the following:

The Contractor shall furnish the Engineer with a Job Mix Formula (JMF) for the asphalt concrete no later than two (2) weeks prior to actual placement of the material. The JMF shall indicate the percentage passing each specified sieve size and percent asphalt to be used for each asphalt concrete mixture to be incorporated in the work. The job mix formula (gradation), with allowable tolerance for a single test, shall be used for job control. Single test variation tolerance is shown below. In no event shall there be less than two percent (2%) passing the No. 200 sieve.

**JOB MIX FORMULA GRADING TOLERANCE
(FOR SINGLE TEST)**

<u>SIEVE SIZE</u>	<u>PERCENT</u>
No. 4	± 6
No. 30	± 5
No. 200	±2
Asphalt, percent by weight of mix	±0.3

The Engineer shall have the right to obtain samples for all materials to be used in the work and to test such samples for the purpose of determining specification compliance.

**MODIFICATIONS TO THE STANDARD SPECIFICATIONS
“GREENBOOK” PART 2 – CONSTRUCTION MATERIALS**

The Engineer reserves the right to obtain said samples at the point of delivery and/or at the point of manufacture. The Engineer shall also have the right to inspect sources of materials to be used in the work to determine acceptability of procedures used by the material supplier.

203-6.4 Asphalt Concrete Mixtures.

203-6.4.4 Composition and Grading

Add the following to this subsection:

- a) Asphalt Concrete, Full Depth Patch Back, at curb and gutters, shall be designated as “Type C2-PG 64-10”.
- b) Asphalt Concrete Surface Course, at roadways and driveways, 1.5 inches thick, shall be designated as “Type C2-PG 64-10”.
- c) Asphalt Concrete Base Course, at roadways and driveways, shall be designated as “Type B2-PG 64-10”.

The San Dieguito Drive Improvements shall include 4.5 inches of Asphalt Concrete Pavement for roadway and driveways, consisting of a 1.5-inch surface course over a 3-inch base course.

SECTION 207 – GRAVITY PIPE

207-2 REINFORCED CONCRETE PIPE (RCP).

207-2.1 General.

Add the following:

All pipe joints shall be gasketed. Gasket shall conform to the requirements of Section 208-3, “Gaskets for Concrete Pipe”. All pipes shall be certified by the supplier for D-Load prior to installation.

207-2.9 Basis for Acceptance.

207-2.9.2 D-Load Bearing Strength Test.

Replace the first paragraph with the following:

Pipe to be D-load tested may be selected at random by the City.

207-17 PVC GRAVITY PIPE.

207-17.1 General.

Add the following:

PVC Pipe shall be of the size and strength designated as shown on the plans. Schedule 40 and 80 PVC plastic pipe shall conform to the provisions of ASTM D-1785. If no Schedule/Type designation is noted on the plans, PVC shall be Schedule 80.

**MODIFICATIONS TO THE STANDARD SPECIFICATIONS
“GREENBOOK” PART 2 – CONSTRUCTION MATERIALS**

**SECTION 214 – TRAFFIC STRIPING, CURB AND PAVEMENT
MARKINGS, AND PAVEMENT MARKERS**

214-1 GENERAL.

Add the following:

All pavement striping and markings shall be reflective with glass beads and conform to requirements of the South Coast Air Quality Management District.

Traffic linear striping and curb painting shall be waterborne-based paint unless otherwise noted. Paint material shall be used at its manufactured consistency and shall conform to the requirements of the State of California Department of Transportation specifications PTWB-01R2. Paint shall correspond to SWARCO brand traffic paint, or approved equivalent:

SWARCO 1140/1160 Series

Waterborne acrylic traffic paint (TTP-1952E Type I/TTP-1952E TYPE II)

WHITE – Product Code ZB1140

RED – Product Code ZB1151/1161

BLUE – Product Code ZB1164

YELLOW – Product Code ZB1146

GREEN – Product Code ZB1162

BLACK – Product Code ZB1147

All paints may be obtained from Traffic Safety Materials, LLC, 7722 Clairemont Mesa Blvd., San Diego, CA 92111; (619) 450-8987 or any other supplier.

214-5 THERMOPLASTIC MATERIAL FOR TRAFFIC STRIPING AND MARKINGS.

214-5.1 General.

Add the following:

All pavement symbols and legends, and stop bars shall be Thermoplastic. Thermoplastic must comply with State Specification PTH-02SPRAY, PTH-02HYDRO, or PTH-02ALKYD. Primer must comply with the thermoplastic manufacturer’s recommendations.

SECTION 217 – BEDDING AND BACKFILL MATERIALS

217-2 TRENCH BACKFILL.

Add the following:

Trench slurry backfill, between proposed pipeline and existing utilities or as approved by the Engineer, shall be slurry concrete class 100-E-100 per Table 201-1.1.2, for “Trench Backfill,” of the Standard Specifications and per SDRSD G-36.

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Otherwise, trench backfill from native excavated materials may be used given the following:
Where the native backfill is used, the backfill shall conform to the Greenbook Requirements. The Contractor shall set up screening facilities and screen the native material prior to any backfilling. The unsuitable material shall be hauled away to a licensed recycling center.

All backfill material shall be approved by the City and the Engineer. The Contractor is responsible for placing and compacting native backfill in trench conditions in accordance with approved plans, Standard Specification and the Technical Provisions. Periodic compaction tests will be required throughout trench backfill operations. It is the responsibility of the Contractor to give 48-hours notice to the Engineer that backfill testing will be needed at the site prior to the backfill operations being performed by the Contractor. If the Engineer is not notified, then areas of backfill may have to be removed and recompacted without additional compensation.

The preliminary borings indicate that subsurface materials generated from the trench excavations will be suitable for use as backfill in the trench zone, provided the backfill is free of vegetation, debris, organic materials, deleterious materials, and particles greater than 3 inches and largest dimension.

Backfill within this interval should be placed in 8-inch loose lifts and compacted to 90% relative compaction after ASTM D 1557 and 95% relative compaction in the upper 12-inches of subgrade in streets.

Trench backfill shall be placed to existing or natural grades where proposed grading is not indicated on the plans. Placing backfill uniformly on all sides shall mean limiting the differential fill level to two feet (2') or less.

217-2 IMPORTED BACKFILL.

Add the following:

The import material shall conform to Greenbook Section 217-2 for trench backfill. Imported soil shall have an expansion index of 20 or less. The contractor shall identify the source of proposed material to the Engineer no less than 10 working days prior to its intended use. The material source, soil properties, and origin shall be clearly described.

217-3 STRUCTURE BACKFILL.

Add the following:

Retaining wall backfill shall consist of granular, free-draining material having an expansion index of 20 or less. The backfill zone is defined by a 1:1 plane projected upward from the heel of the wall. Expansive or clayey soil shall not be used. It is anticipated that the on-site soils will be suitable for wall backfill. Additionally, backfill within 3 feet from the back of the wall shall not contain rocks greater than 3 inches in dimension. Backfill shall be compacted to at least 90% relative compaction. Backfill shall not be placed until walls have achieved adequate structural strength.

**MODIFICATIONS TO THE STANDARD SPECIFICATIONS
“GREENBOOK” PART 2 – CONSTRUCTION MATERIALS**

Add the following new section:

SECTION 218 – SIGNAGE

The following Sections of the Caltrans Standard Specifications, and California Manual on Uniform Traffic Control Devices latest editions, shall be used for all work specified in these sections:

Section 82: Signs and Markers

218-1 TRAFFIC SIGNS. New traffic sign materials including color, size, reflectivity, symbols and lettering shall conform to the latest CMUTCD and latest Caltrans Sign Specification Sheets.

The following Sections of the Caltrans Standard Specifications, and California Manual on Uniform Traffic Control Devices latest editions, shall be used for all work specified in these sections:

Section 82: Signs and Markers

218-2 TRAFFIC SIGN POST. All signs shall be installed on metal sign posts, unless wood posts are specified.

END OF PART 2

CHAPTER III
MODIFICATIONS TO THE STANDARD SPECIFICATIONS
“GREENBOOK” PART 3 – CONSTRUCTION METHODS

**MODIFICATIONS TO THE STANDARD SPECIFICATIONS
“GREENBOOK” PART 3 – CONSTRUCTION METHODS**

SECTION 300 - EARTHWORK

300-1 CLEARING AND GRUBBING.

300-1.1 General.

Add the following to the second paragraph:

Clearing and grubbing shall consist of removing all natural and artificial objectionable materials from the project site, as shown on the drawings and directed by the Engineer.

The Contractor shall remove all debris from the project site by the end of each work day. The Contractor shall remove all items indicated on plans and as necessary to complete the work and/or as may be directed by the Engineer, to the satisfaction of the Engineer.

The Contractor shall submit proposed salvage, demolition, and removal procedures for approval before work is started. Procedures shall provide for careful removal and disposition of materials specified for salvaging, coordination with other work in progress, a disconnection schedule of all utility services, and a detailed description of methods and equipment to be used for each operation and of the sequence of operations.

The Contractor is responsible for repairing all irrigation lines, hardscape, and appurtenances damaged or removed as part of the construction. The Contractor shall be responsible for root removal and disposal.

The Contractor shall use extreme caution in protecting all existing improvements adjacent to the project including PCC improvements, irrigation facilities and appurtenances, trees, water meters, parkway drains, walkways, brickwork, etc. Contractor shall be responsible for replacing damaged improvements in kind as a result of construction operations.

All areas used by the Contractor as temporary right-of-way and staging areas shall not be contaminated with fuels, chemicals, lime or other soil stabilization treatments. All waste oil, solvent, and refined petroleum products shall be collected in appropriate containers and disposed of properly. A layer of clean pea gravel over native soil shall be used where an all-weather surface is desired for operation of vehicles and equipment.

The Contractor shall notify the Engineer, in accordance with Subsection 3-4, “Changed Conditions,” of the Standard Specifications, of any changed conditions or material differing from that represented in the Contract which the Contractor believes to be hazardous waste.

All stockpiling of cleared and grubbed material designated by the Contractor for final removal shall be considered incidental to this paid item and no additional compensation shall be allowed therefore.

All combustible waste materials resulting from clearing and grubbing from any construction operations of this Contract shall be removed from the site to an acceptable disposal area in accordance with Subsection 401-1, of the “Removal” Section.

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Clearing and Grubbing shall be limited to the areas within grading limits and other items to be constructed. All other vegetation outside clear and grub areas shall be protected in place from damage resulting from the Contractor's operation. Any item outside the construction limits that is damaged or destroyed by the Contractor shall be replaced or restored to its original condition prior to acceptance of the improvements or the Contractor shall compensate the City for its replacement.

The Contractor shall protect all existing structures or facilities which are adjacent to or fall within the limits of the work to be done under this Contract in accordance with Section 400, “Protection and Restoration,” of the Standard Specifications. Any structure or facility to be protected which is damaged as a result of the Contractor's construction operation, shall be replaced by the Contractor, at their cost, to the satisfaction of the Engineer.

Clearing and Grubbing shall include, but not be limited to, removal and disposal of all shrubs, trees, and vegetation as shown on the plans and removal of construction debris, trash, and deleterious material as directed by the Engineer.

Removal/Adjustments/Relocations of items shall be in conformance with respective owner/agency (City/Utility Company) standards and specifications.

300-1.4 Payment.

Modify this subsection to read as follows:

The bid schedule does include a bid item for Clearing and Grubbing. Full compensation for any necessary Clearing and Grubbing required to perform the construction operations specified or shown on the Plans will be considered as included and no additional compensation will be allowed. Payment for removal and disposal of abandoned utilities shall be included in the various items of work and no additional compensation will be allowed.

All stockpiling of cleared and grubbed material designated by the Contractor for final removal shall be considered incidental to this bid item and no additional compensation will be allowed.

Sawcutting of existing improvements to be removed as specified shall be considered incidental to the removal of the various improvements.

Reinforcing or other steel may be encountered in portions of existing concrete items to be removed. No additional compensation shall be allowed for the removal of concrete containing reinforcing or other steel.

300-2 UNCLASSIFIED EXCAVATION.

300-2.1 General.

Delete and replace this subsection as follows:

Unclassified Excavation shall include excavations within the grading limits, delineated by the daylight line in the plans, which includes areas within the roadway prism, hardscape, and the grading for gravel areas.

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Excavation for the roadway construction or any other hardscape, storm drain pipes or drainage structure installation, trenching for any utility relocations, shoring operation, or other items to be installed, shall be included in their respective items of work being constructed, and will not be included in the price paid for unclassified excavation.

Pavement removal and replacement, for trenching for any utility relocation or adjustments or other items, shall be all inclusive of the respective utility relocation or adjustments or other item of work and shall not be quantified as pavement removal, aggregate base, nor asphalt concrete.

Excavated material shall be free of oversized material, trash, debris and shall be evaluated and accepted by the on-site Engineer and Geotechnical Consultant prior to using for backfill. If material is not acceptable, Contractor shall dispose of the material off-site in a legal manner at no additional cost to the City.

If unsuitable material is encountered during normal excavation or other construction operations, the Contractor shall remove said material to the limits determined by the Engineer and replace said material with unclassified fill in accordance with Section 300-4, Unclassified Fill, of the Standard Specifications, unless otherwise directed by the Engineer.

Add the following new subsection:

300-2.1.1 Requirements. Bituminous pavement shall be removed to clean, straight lines. Saw cutting of edges to be joined shall be to the full depth of the pavement. If thickness of existing asphalt section to be removed is greater than the proposed structural section, the Contractor shall remove the full thickness of existing asphalt pavement, compact existing subgrade and construct AC pavement thickness equaling the difference between existing asphalt section removed and proposed structural section.

Concrete curb, curb and gutter, cross gutter and sidewalk shall be removed to neatly sawn cuts made to a minimum depth of 1½ inches. Concrete sidewalk to be removed shall be neatly sawed in straight lines either parallel to the curb or at right angles to the alignment of the sidewalk. No section to be replaced shall be smaller than 30 inches in either length or width. If the saw cut in sidewalk would fall within 12 inches of a score mark, the saw cut shall be made along the score mark. Curb and gutter shall be sawed to a depth of 1½ inches on a neat line at right angles to the curb face.

300-2.2 Unsuitable Material.

Delete and replace with the following:

Material that is unsuitable for its planned use shall be excavated and disposed of as directed by the Engineer.

The Engineer shall determine if the excavated material is deemed unsuitable for trench backfill. Unsuitable Material is defined as heavy clay, highly expansive, organic material, deleterious material, vegetation, debris, uncompactable material, and/or other material unsuitable for supporting the pipelines and backfill.

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Add the following new subsection:

300-2.2.3 Remedial Grading.

Overexcavation and recompaction, for remedial grading, shall be performed in the following locations and per the Geotechnical Consultant’s recommendations:

- a) Minor Concrete Subgrade Preparation (replacement or new construction of retaining walls, driveways, curb and gutter, and other minor concrete items) – Beneath planned hardscape areas and retaining wall footings, the foundations shall be supported entirely on geotechnically approved, competent old alluvial deposits. If existing fill or loose soil is encountered at the foundation elevation, the soils shall be overexcavated to a depth of at least 1 foot below the planned subgrade elevation for hardscaping and 2 feet below the retaining wall, or deeper if loose material is encountered.

Overexcavation areas shall be and backfilled with compacted fill per Section 300-4, “Unclassified Fill,” of the Standard Specifications and these Technical Provisions. Horizontally, the excavations shall extend at least 1 foot outside the planned hardscape or within a 1:1 projection outward from the bottom of the wall footing. The on-site Geotechnical Consultant will observe the conditions exposed in the bottom of excavations to evaluate whether additional excavation is recommended. The resulting surface shall then be scarified to a depth of 6 inches, moisture conditioned to near optimum moisture content, and compacted to at least 90% maximum dry density (ASTM D1557). The excavation shall be backfilled with compacted fill having an Expansion Index (EI) of 20 or less.

- b) Pavement Subgrade Preparation - Beneath planned pavement areas, the existing soils shall be overexcavated to a depth of at least 1 foot below planned subgrade elevation, or deeper if loose material is encountered. Horizontally, the overexcavations shall extend at least 2 feet outside the planned pavement or up to existing improvements, whichever is less. The on-site Geotechnical Consultant will observe the conditions exposed in the bottom of overexcavations to evaluate whether additional excavation is required. The resulting overexcavated bottom surface shall then be scarified to a depth of 6 inches, moisture conditioned to near optimum moisture content, and compacted to at least 90% of maximum dry density (ASTM D1557). The upper 1 foot of overexcavated subgrade beneath the new pavements shall be backfilled with compacted fill per Section 300-4, “Unclassified Fill,” of the Standard Specifications and these Technical Provisions.

The on-site Geotechnical Consultant may determine that unsuitable material excavation are required to extend beyond the original bid. Upon authorization from the Engineer, the Contractor shall perform the additional remedial grading to the satisfaction of the on-site Geotechnical Consultant. The on-site Geotechnical Consultant and Contractor shall agree on the length, width, and depth of the remedial grading prior to proceeding with excavation, drying and/or mixing or replacement, and compaction of the fill materials, and survey data for the removal shall be collected by the Surveyor (see Measurement section below).

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It is imperative the Contractor work closely with the on-site Geotechnical Consultant during remedial grading, and limits the remedial excavation to depths indicated by the on-site Geotechnical Consultant. If in the opinion of the on-site Geotechnical Consultant and Engineer, the Contractor's actions caused deeper remedial removals than necessary, the Contractor shall be responsible for all costs associated with stabilization of the bottom and placement of this additional material in a compacted fill.

300-2.8 Measurement.

Replace the second paragraph with the following:

Grading and Earthwork Quantities

Measurement of Earthwork items, within this Section 300 of these Technical Provisions, will be based on the volume it occupied prior to excavation as determined by the Engineer. Prior to excavation the Contractor shall verify, per plan, excavation volumes using the average end area method calculations and provide a letter of acceptance or disagreement to the Engineer. Disagreement regarding volume measurements shall be resolved prior to excavation. Any re-measuring or resurveying required as a result of disagreement will be at Contractor's expense.

Earthwork shall not be double counted under multiple pay items, but will only be paid for once, under their respective pay item, for a given volume of material and no additional compensation shall be allowed.

No adjustment in unit price shall be allowed for Earthwork items, including Excavate and Fill, Export Earthwork, Import Earthwork, and / or if the total bid quantity either increases or decreases.

Remedial Grading

The contract quantity for Remedial Grading is estimated based on remedial excavation of one-foot per the street improvement plan, and is exclusive of the unclassified excavation quantities.

Documenting the bottom of remedial grading excavation, for payment, will be done in the field by the Surveyor in cooperation with the on-site Geotechnical Consultant. The Surveyor shall use and calibrate their equipment based on licensed land surveyor benchmarks and set stakes on a grid pattern, lot lines, street centerlines and property lines as necessary and in accordance with these Technical Provisions in order to document the existing grade data, finished grade data and remedial grading excavation design grade data. The on-site Geotechnical Consultant and the Surveyor shall document the information for the on-site Geotechnical Consultant's use and the Contractor's use. The Contractor and on-site Geotechnical Consultant shall approve the Surveyor noted grade data prior to commencement of Remedial Grading work. Any work proceeding without written grade approval may jeopardize the subsequent quantification.

The resulting survey data shall be provided to the on-site Geotechnical Consultant for review and validation. The on-site Geotechnical Consultant will work with the assistance of the Engineer to determine the final quantity for the project.

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300-3 STRUCTURE EXCAVATION AND BACKFILL.

300-3.1 General.

Add the following:

Do not place structure backfill until footings or other parts of the structure are inspected by the Engineer and authorized for backfilling. Do not place backfill against the back of retaining walls, until the concrete has attained a compressive strength of at least 2,500 psi or the concrete has been in place for 28 days.

300-4 UNCLASSIFIED FILL.

300-4.1 General.

Add the following:

Compacted fill shall be granular materials, free of organic matter and other deleterious material, and finer than 4 inches in diameter with an expansion index of 20 or less and shall be placed in horizontal lifts at a thickness appropriate for the equipment spreading, mixing, and compacting the material, but shall not exceed 8 inches in loose thickness.

The existing on-site soils are anticipated to be suitable as compacted fill pending approval from the on-site Geotechnical Consultant.

Engineered fill shall be compacted to at least 90% relative compaction for proposed hardscapes and utility trench backfill and 95% relative compaction for foundation subgrades. Additionally, the upper 1 foot of subgrade beneath the new pavements shall be compacted to at least 95% relative compaction. Maximum dry density and optimum moisture content for evaluating compaction shall be obtained in accordance with ASTM D1557.

300-4.3 Other Fill Materials.

Replace the second sentence with the following:

Select fill shall be in-situ soils conforming to Section 300-4 of the Standard Specifications and these Special Provisions.

300-11 ROCK SLOPE AND EROSION PROTECTION (RIPRAP).

300-11.1 General.

Add the following:

Riprap Splash Pads shall be placed in the locations and per dimensions as shown in the plans and per the standard details and modifications.

Add the following new section:

300-12 GENERAL.

Whenever reference to finished grade is made, it shall be considered to be the finished surface of the completed facility.

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The Contractor shall perform testing in connection with earthwork. Tests shall be made to conform with Section 211, "Material Tests," and the following:

<u>Test</u>	<u>Test Method</u>
Relative Compaction	ASTM D1557
Sand Equivalent	ASTM D2419
Resistance (R-Value)	ASTM D2844 or Cal Method 301
Sieve Analysis	ASTM D6913
Shear Strength	ASTM D3080
Nuclear Density Gauge	ASTM D6938
Sand Cone	ASTM D1556
Driven Cylinder	ASTM D2937
Expansion Index Atterberg Limits	ASTM D4829 \ ASTM D4318
Soluble Sulfate Content	ASTM D516 or Caltrans Method 417B

The location and frequency of field density tests will be determined by the Engineer. The results of these tests and compliance with the specifications will be the basis upon which satisfactory completion of work will be judged by the on-site Engineer.

Trenches, holes, depressions and pits caused by the removal of facilities shall be backfilled with unclassified fill material. Such trenches, holes, depressions and pits that are in surfaced areas, otherwise to remain undisturbed, shall be backfilled with material equal to or better in quality and to the same thickness as the surrounding materials.

When hauling is done over public highways, and when directed by the Engineer, loads shall be trimmed, and all material removed from shelf area of vehicles in order to eliminate spilling of material. If directed by the Engineer, loads shall be watered after trimming to eliminate dust.

Operations shall be conducted in such a manner that existing highway facilities, utilities, and other upon-highway facilities which are to remain in place will not be damaged.

Surplus excavated material shall become the property of Contractor. Contractor shall be responsible to dispose surplus material outside of Project Right-of-Way in accordance with all applicable ordinances.

No additional compensation shall be allowed for conformance to these requirements.

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**SECTION 301 – SUBGRADE PREPARATION, TREATED MATERIALS,
AND PLACEMENT OF BASE MATERIALS**

301-1 SUBGRADE PREPARATION.

301-1.1 General.

Add the following:

- a) Minor Concrete Subgrade Preparation (replacement or new construction of driveways, curb and gutter, curb, retaining walls, and other minor concrete items) – The upper 1 foot of soils below minor concrete shall be compacted to at least 95 percent of the maximum dry density (per ASTM D1557). The subgrade shall be moist but should not be wetted or saturated prior to the placement of concrete.
- b) Pavement Subgrade Preparation (Full Depth Pavement Replacement or New Pavement) - The top 12 inches of subgrade should be scarified, moisture conditioned to near optimum moisture content and compacted to at least 95% relative compaction. Soft or yielding areas should be stabilized or removed and replaced with compacted fill or aggregate base.
- c) Backfill shall be placed in uniform lifts, 8 inches or less in loose thickness. Backfill shall be free of organic debris, rocks greater than 4 inches in dimension, or have an expansion index of 20 or less.
- d) The cost of furnishing and applying water as directed by the Engineer shall be included in the Contractor's bid price for other items.
- e) Subgrade soils should be in a stable, non-pumping condition at the time of subgrade compaction and prior to the aggregate base or concrete materials are placed.

301-2 UNTREATED BASE.

301-2.1 General.

Add the following:

Aggregate base - Aggregate Base (Untreated base) is required under some PCC and AC improvements as shown on the Plans, referenced Standard Plans, or as described in the Technical Provisions. Additional base may be required after review of work areas following removals. Prior to constructing new improvements, the Contractor shall verify with the Engineer that the base sections as shown on the Plans are adequate.

The finished surface of the untreated base, which is to receive asphalt concrete shall be smooth and level and allow for a uniform depth of asphalt concrete.

Adequate drainage (both surface and subsurface) should be provided such that the untreated base materials are not allowed to become wet.

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Aggregate base Compaction - Aggregate base shall be placed in 6-inch to 8-inch loose lifts, moisture conditioned to near optimum moisture content, and compacted to at least 95 percent relative compaction per ASTM D1557.

301-2.2 Spreading.

Add the following:

At the time the untreated base material is spread, it shall have a moisture content sufficient to obtain the required compaction. Such moisture shall be uniformly distributed throughout the material.

301-2.4 Measurement and Payment.

Delete the second paragraph and add the following:

Untreated base is required under AC driveways and some PCC improvements as referenced Standard Plans and described in their respective Technical Provisions and may not be eligible for payment under Aggregate base pay item, but will be included in the cost of the item being constructed. The Aggregate base, included in other items of work, shall be furnished and installed by the Contractor.

No additional compensation shall be allowed for removing and replacing previously prepared subgrade or sub-base or for the weight of water.

No adjustment in unit price shall be allowed for Aggregate Base if the total bid quantity either increases or decreases.

Add the following new section:

301-7 GRAVEL.

301-7.1 Installation. Excavate to depth required for installation of gravel surfacing.

Apply pre-emergent herbicide and post-emergent herbicide per the manufacturer's recommendations to the subgrade prior to installation.

Prior to installation, the surface on which gravel surfacing is to be placed shall be compacted to a minimum 90 percent relative compaction, and approved by the Geotechnical Consultant.

Stabilizer shall be mixed into the gravel layer prior to surfacing.

Windrow and equalize the gravel to properly blend any segregated material and create an even windrow spread at a uniform depth. Apply water uniformly and as needed to obtain the required compaction and for dust control and stability. Compact to 95% relative compaction with a pneumatic roller or motor graders. Vibratory devices shall not be used. Grade and smooth to required elevation.

Surface shall follow overall project contours. Flat areas shall be crowned for drainage.

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Completed surface shall be of consistent quality and free of deleterious materials such as organic materials, nails, stones, and loose material. Surface shall not have depressions or humps greater than ¼” in ten feet.

Finished surface shall be smooth, uniform and solid. Compacted area shall be firm throughout profile with no spongy areas. Any significant irregularities in surface shall be repaired to the uniformity of entire installation.

Apply an additional application of pre-emergent herbicide per the manufacturer’s recommendations.

301-7.2 Protection. Protect gravel surfacing from damage until Project completion. Repair damaged areas with reblading.

SECTION 302 – ROADWAY SURFACING

302-5 ASPHALT CONCRETE PAVEMENT.

302-5.1 General.

Add the following:

This work shall include the construction of asphalt concrete pavement, including, but not limited to, roadways, AC patch backs, and miscellaneous areas, as shown on the plans, per these Technical Provisions, the Standard Specifications, and as directed by the Engineer.

The work shall include controlling nuisance water, sweeping, watering, and removing loose and broken foreign material as specified in the Standard Specifications and these Technical Provisions and as required by the Engineer.

The Contractor shall provide proper delineation, signing and flagger to keep traffic off of the freshly laid mat until it has been properly compacted and is set up sufficiently so that it will not be damaged by traffic. Surfaces damaged by traffic shall be replaced to the satisfaction of the Engineer.

If the finish surface of the asphalt concrete on the traffic lanes does not meet the specified surface tolerances, it shall be brought within the tolerances by either: (1) Placing an overlay of asphalt concrete, or (2) Removal and replacement. The method shall be selected by the Engineer.

Subgrade Preparation - Prior to placing asphalt concrete, the subgrade shall be subject to inspection/testing and approval by the Engineer in conformance with Section 301, “Treated Soil, Subgrade Preparation, and Placement of Base Materials,” of the Standard Specifications and these Technical Provisions. The City shall furnish the first compaction tests at no cost to the Contractor. Any retesting required due to first test failures shall be made by the City at the Contractor's expense, the cost of which shall be deducted from the Contractor's final payment. Furnishing and

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applying water as directed by the Engineer shall be considered incidental work, cost of which shall be included in the Contractor's bid price for other items. Asphalt pavement construction shall not be allowed before the completion and approval of all pavement preparation work.

Lifts - The finish / surface course shall be spread in one layer with the use of a self-propelled paving machine and shall be spread to the after-compaction thickness as shown on the Plans.

Longitudinal joints shall be on lane lines.

No grade difference at lip, between utility frame and asphalt concrete finished grade pavement, shall be allowed.

Tarpaulins shall be used to cover all loads from plant to project site.

302-5.2 NOT USED.

Remove and replace with the following section:

302-5.2 Testing. All quality assurance testing shall be done by the Contractor. Prior to delivery of each shipment of asphalt concrete to the job site, the Contractor shall test and provide results and certification to the City, to insure the conforming of the material and its integral components with the prescribed requirements.

The test reports, signed by the Contractor's materials testing representative, shall certify that the product delivered conforms to the specifications for the type and grade indicated. The certified test reports and the testing required in connection with the reports shall be at no cost to the City.

The vendor supplying the material will deliver to the purchaser with certified copies of the test reports, indicating the name of the vendor. Type and grade of asphalt delivered, date and point of delivery, quantity delivered, delivery ticket number, purchase order number and result of specified test conducted by the Contractor.

The Contractor shall notify the Engineer a minimum of five (5) working days prior to the performance of paving work for inspection by the City.

302-5.4 Tack Coat.

Add the following:

Tack coat shall be applied to all vertical and horizontal surfaces to be joined by new pavement.

The tack coat shall not be applied until the preparation of the existing surface has been completed, and then only so far in advance of placing the asphalt concrete surface course as permitted by the Engineer. Prior to applying tack coat, existing surface shall be swept and cleaned to the satisfaction of the Engineer. No tack coat shall be left exposed overnight. Immediately in advance of placing the asphalt concrete surface course additional tack coat shall be applied, as directed by the Engineer to areas where the tack coat has been destroyed or otherwise rendered ineffective, and no additional compensation shall be allowed for such work. Between lifts of asphalt concrete pavement, and any

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other cold pavement joints, curbs, gutters, manholes, tack coat shall be applied if paving over cooled surface where satisfactory bond cannot be obtained.

Existing concrete gutter and curb faces shall be protected against disfigurement from the asphalt. Residue of the material shall be removed from gutter and curb faces by sandblasting to the extent required by the Engineer.

The Engineer will determine if the pavement is sufficiently dry for the application of the tack coat.

Tack coat shall not be applied when the temperature of the surface to be tacked is below 40° F in the shade.

302-5.5 Distribution and Spreading.

Add the following new subsection:

302-5.5.1 Asphalt Concrete Pavement. Asphalt concrete shall be placed with spreading equipment equipped with fully automatic screen and grade sensing controls, which shall control the longitudinal grade of the screed.

Automatic controls shall conform to and be operated in accordance with the following provisions:

If it is determined by the Engineer that the existing grade and cross slope is too irregular for the automatic controls to provide the quality of work required, the use of the automatic controls shall be discontinued and the spreading equipment adjusted by manual methods. Use of the automatic equipment shall be resumed when the Engineer has determined that it is again practical and so orders.

302-5.6 Rolling.

Add the following:

A vibrating tamper may be utilized in very small areas as approved by the Engineer. In general, a steel wheeled roller shall always be utilized to finish off the full depth asphalt concrete surfaces.

SECTION 303 – CONCRETE AND MASONRY CONSTRUCTION

303-1 CONCRETE STRUCTURES.

Add the following paragraph to this subsection:

This section shall address general requirements for construction of various concrete structures per the approved plans, the Standard Specifications, and the Technical Provisions.

Concrete structures shall include but are not limited to:

- a) Curb Inlets
- b) Retaining Walls
- c) Other Minor Structures

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Vertical or horizontal position of structures as shown on the Plans or as described in these Specifications shall not vary more than 1/2 inch from true position. Elevation at inlet lips shall not vary more than 1/4 inch from elevation shown on the plans.

All earthwork shall be done in accordance with Section 300, Earthwork, of the Standard Specifications and these Technical Provisions.

Concrete shall be in accordance with Sections 201, Concrete, Mortar, and Related Materials. A minimum of 80% of the mix's designated compressive strength must be attained before any backfill will be allowed.

303-1.3 Forms.

Add the following to the end of the section:

Forms shall be braced to withstand the pressures developed and shall be tight to prevent the loss of concrete or mortar. Formed wall surface shall be free of any unevenness greater than 1/4 inch when checked with a 10 foot straight edge.

Concrete in walls with side slopes flatter than 3/4:1 shall be placed on suitable material which has been overfilled, compacted and trimmed to true grade. Backforms shall be used where the side slope is 3/4:1 or steeper.

After removal of forms and “snap ties,” any portions protruding or exposed on the concrete surface, shall be removed and any holes patched.

A clear non-staining form release agent, which will not discolor or affect the surface texture of the concrete and does not react with any ingredients of the concrete, shall be used. The cost of furnishing and placing form release agent shall be included in the unit cost of the Concrete Structure.

Full compensation for conforming to the requirements of forms shall be considered as included in the Contract price paid for the related concrete structure bid items and no separate compensation shall be allowed.

303-1.7 Placing Reinforcement.

303-1.7.1 General.

Add the following to the end of the section:

Reinforcing steel bars shall be accurately spaced as shown on the plans and spacing of the first bar immediately adjacent to a transverse construction joint shall be one-half the required spacing shown on the plans. In no case shall the clear distance between parallel bars be less than 2-1/2 diameters of the bar and a minimum of 2 inches. Unless otherwise shown on the plans, embedment of reinforcing steel shall be 1-1/2 inches clear depth of #8 bars or smaller and shall be 2 inches clear for #9 bars and larger. Where placement of reinforcing steel requires alternate bars of different size, embedment shall be governed by the larger bar. Tack welding or butt welding of reinforcing bars will not be permitted.

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All reinforcing steel shall be placed on supports to maintain the distance between the reinforcing steel and the subgrade, as required by the approved plans and specifications. Under no circumstances shall the reinforcing steel be placed on the subgrade and pulled during placement of concrete. The Contractor shall not place concrete until the City has inspected the reinforcing steel placement and integrity of the steel reinforcement.

No splices in transverse steel reinforcement shall be permitted other than shown on the approved plans. No more than one splice shall be permitted in any longitudinal bar between transverse joints and the splices shall be staggered.

Where permitted, splices in longitudinal and transverse steel shall be lapped 45 bar diameters, for #8 bars and smaller, 60 bar diameters for #9 through #11 bars, but not less than 12 inch , unless shown otherwise on the plans.

If the Contractor elects to modify the steel reinforcement spacing from what is shown on the plans, shop drawings must be prepared and approved by the Engineer.

Securing in Place: Accurately place bars and wire tie in precise position where bars cross. Bend ends of wire ties away from the forms. Wire tie bars to corners of ties and stirrups. Support bars according to the current edition of Recommended Practice for Placing Bar Supports of Concrete Reinforcing Steel Institute, using approved accessories and chairs. Place precast concrete cubes with embedded wire ties to support reinforcing steel bars in concrete placed on grade and in footings. Use care not to damage vapor barriers where they occur.

Exposed Concrete Surfaces: Provide stainless steel or exterior quality vinyl plastic tipped chairs, bolsters, and accessories where exposed on exterior or interior concrete surfaces not to be painted or permanently covered.

Clearances: Maintain minimum clear distances from face of concrete as indicated or directed.

Maintaining Bars in Position: Take adequate precautions to assure that reinforcing position and spacing is maintained during placement of concrete.

Provide additional reinforcing bars at wall and slab openings as required. Before placing bars, and again before concrete is placed, clean bars of loose mill scale, oil, or any other coating that might destroy or reduce bond.

Payment: Full compensation for furnishing, bending and placing reinforcement shall be considered as included in the Contract unit price paid for the various concrete structures and no separate compensation shall be allowed.

303-1.8 Placing Concrete.

303-1.8.1 General.

Add the following:

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Where concrete is to be deposited against hardened concrete at horizontal construction joints, the surface shall be cleaned, as directed by the Engineer, prior to placement of the additional concrete.

All unsatisfactory concrete, latency, coatings, stains, debris, and other foreign materials are to be removed. The surface of the concrete shall be washed thoroughly to remove all loose material. The method used in disposing of wastewater employed in washing the concrete surfaces shall be such that the wastewater will not stain, discolor, or affect exposed surfaces or the structures, and will be subject to the approval of the Engineer.

Full compensation for conforming to the requirements of Placing Concrete shall be considered as included in the Contract price paid for the related bid items and no separate compensation shall be allowed.

303-1.8.1 Joints.

Add the following before the first sentence:

Transverse joints shall conform to this section.

Where bond breaks or expansion joint material is shown to separate PCC construction for new or existing improvements, the material used shall be a preformed expansion joint filler bituminous type conforming to ASTM D 1751.

Water stops shall be constructed at locations per the plans and details.

Add the following after the last paragraph:

Full compensation for conforming to the requirements of Joints, Bond Breaks, and/or Water Stops shall be considered as included in the Contract price paid for the related paid items and no separate compensation shall be allowed.

303-1.9 Surface Finishes.

303-1.9.1 General.

Add the following to the end of the subsection:

Concrete drainage structures shall have an ordinary surface finish conforming to Section 303-1.9.2, Ordinary Surface Finish.

Full compensation for conforming to the requirements of Surface Finish shall be considered as included in the Contract unit price paid for the related concrete bid items and no separate compensation shall be allowed.

303-1.9.2 Ordinary Surface Finish.

Add the following:

Ordinary Surface Finish shall not apply to rock pockets which, in the opinion of the Engineer, are of such an extent or character as to affect the strength of the structure materially or to endanger the

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life of the steel reinforcement. In such cases, the Engineer may declare the concrete defective and require the removal and replacement of the structure affected at the expense of the Contractor.

Full compensation for conforming to the requirements of Ordinary Surface Finish shall be considered as included in the Contract price paid for the related concrete bid items and no separate compensation shall be allowed.

303-1.10 Curing.

Add the following to the end of the subsection:

Obtain 100% minimum concrete strength before any backfill of concrete structures will be allowed.

Full compensation for conforming to the requirements of Curing shall be considered as included in the Contract price paid for the related concrete bid items and no separate compensation shall be allowed.

Crossing of concrete structures with heavy construction equipment is not allowed.

Delete the entire subsection 303-1.12, Payment, and add the following subsection.

Add the following new subsection:

303-1.13 Storm Drain Signage / Stenciling. The Contractor shall stencil “NO DUMPING – DRAINS TO OCEAN”, at each inlet, with thermoplastic material per Section 214-5, Thermoplastic Material for Traffic Striping and Markings. Stencils shall be approved by City prior to use. Cost of stenciling shall be included in the cost of Concrete work.

303-4 MASONRY CONSTRUCTION.

Add the following new subsection:

303-4.3 Construction. The work for Masonry Block Retaining Wall includes furnishing and constructing the Masonry Block Standard Units, “CREATIVE MINDS CRAFT TRAIL EDGE, MOUNTAIN LION” cultured stone veneer and cap units installed in accordance with manufacturer’s instructions, and other materials, at the locations shown on the Plan Set. The Contractor shall excavate for the foundation as depicted in the Plan Set or as indicated in the San Diego Regional Standard Drawings (SDRSD). The subgrade of the footing trench shall be compacted to 95% relative compaction, or as indicated in the Geotechnical Report for the project. If not otherwise specified, concrete footings shall conform to these specifications and shall be approved by the City. Full compensation for all required work to construct concrete footings will be considered as included in the related items of work. This also includes surface preparation and field application of anti-graffiti coating systems to the exposed vertical and horizontal surfaces of the CREATIVE MINDS CRAFT TRAIL EDGE, MOUNTAIN LION veneer and cap units.

Anti-graffiti coating shall be applied to all exposed surfaces of the retaining wall. The Contractor

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shall submit the manufacturer's application and removal instructions at least 7 days before starting work. The Contractor shall test surfaces for acceptance of the coating before applying. Clean surfaces that resist accepting the coating and retest until passing. Apply the anti-graffiti coating under the manufacturer's instructions in at least 2 even coats.

303-4.1.5 Measurement and Payment.

Delete and replace this subsection as follows:

Masonry Retaining Wall (per type specified) will be measured in Square Feet, from the front of the retaining wall, in profile view, from the top of footing, to the top of wall.

303-5 CONCRETE CURBS, WALKS, GUTTERS, CROSS GUTTERS, ALLEY INTERSECTIONS, ACCESS RAMPS, AND DRIVEWAYS.

303-5.5 Finishing.

303-5.5.2 Curb.

Delete the last two sentences and replace with the following:

Prescribing Contractor's names on any concrete surface is prohibited. Contractor shall remove any prescribed Contractor's names or remove and replace concrete at no additional cost to the City.

Delete and replace this subsection as follows:

303-5.7 Repairs and Replacements. Any new work found to be defective or damaged, cracked, chipped, discolored, improperly finished, heaved, vandalized, fluctuations, undulations, imperfections in PCC surfaces (rock pockets, honeycombing, blisters, voids, or other defects), deviation from grade greater than 1/8 inch, or for any other reason does not conform to the specifications, prior to its acceptance, shall be replaced by the Contractor, at the Contractor's expense, as approved by the Engineer.

SECTION 306 – OPEN TRENCH CONDUIT CONSTRUCTION

306-4 SHORING AND BRACING.

Add the following:

The Contractor shall design sheeting, shoring, and bracing in accordance with Article 6 of CAL OSHA and the California State Labor Code. The standards of design referred to in the Labor Code shall be those of CAL OSHA.

Horizontal strutting below the barrel of a pipe and the use of pipe as support is not acceptable. The Contractor shall submit to the City information required by Section 6705 of the California State Labor Code. The construction of sheeting, shoring, and bracing shall not disturb the state of soil adjacent to the trench and below excavation bottom. Trench sheeting below the top of a pipe shall be left in place. Trench excavation shall not be started until the design for trench support is approved by the City.

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Payment for all work associated with the installation of sheeting, shoring, and bracing for the construction will be included in the Contract bid price of the bid item being installed and shall include full compensation for all labor, materials, equipment, tools, design and incidentals, and for doing all the work of sheeting, shoring, and bracing, complete in place, and as specified in these Special Provisions, and no additional compensation will be allowed.

306-12 BACKFILL.

306-12.1 General.

Add the following:

All work performed by the Contractor in constructing underground improvements is subject to periodic testing throughout trench backfill operations by the City.

D-loads for all reinforced concrete pipes are based on finished surfaces and normal roadway loads. The Contractor shall exercise care in placing and compacting fill above pipes so that the designed D-loads are not exceeded. Any pipe damages as a result of the Contractor’s operations shall be replaced to the satisfaction of the City at no expense to the City.

Bedding placed in excess of the limits required by the Standards Specifications, and for the convenience of Contractor shall not be subject to any additional compensation.

Backfill within this interval should be placed in 8-inch loose lifts and compacted to 90% relative compaction after ASTM D 1557 and 95% relative compaction in the upper 12-inches of subgrade in streets.

Trench backfill shall be placed to existing or natural grades where proposed grading is not indicated on the plans. Placing backfill uniformly on all sides shall mean limiting the differential fill level to two feet (2’) or less.

Any surplus pipe remaining after installation is complete shall become the property of the Contractor and shall be disposed in accordance with Section 401-1, of the “Removal” Section. Surplus materials from trench excavation and backfill shall be placed at the designated stockpile areas within the Contractor’s staging area.

306-12.3 Mechanically Compacted Backfill.

Add the following:

Compaction equipment or methods which may cause excessive displacement or may damage structures, such as sleeve tapers or other drop-weight type equipment, shall not be used.

306-12.3.1 General.

Replace items “b)” and “c)” of the fourth paragraph with the following:

“b)” Vibratory equipment, including vibratory plates on backhoe dipsticks, vibratory smooth-wheel rollers, and vibratory pneumatic-tired rollers - maximum lift thickness of twelve inches (12”).

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“c)” Rolling equipment, including sheepsfoot (both vibratory and non-vibratory), grid, smooth - wheel (non-vibratory), and segmented wheels - maximum lift thickness of six inches (6”).

306-12.3.2 Compaction Requirements.

Delete and replace this subsection as follows:

Backfill shall be placed in uniform lifts, 8 inches or less in loose thickness, moisture conditioned to optimum moisture content or slightly above, and compacted to at least 90 percent relative compaction. Trench backfill shall be compacted to a relative compaction of 90% from the top of the bedding section to 12 inches below pavement sub-grade, or finished grade where there is no pavement, and 95% from 12 inches below pavement sub-grade to pavement sub-grade.

306-12.4 Jetted Trench Backfill.

Delete and replace this subsection as follows:

Water densified backfill shall not be permitted.

Add the new subsection as follows:

306-12.6 Measurement and Payment. Full compensation for conforming to the requirements of backfill, including densification, shall be considered included in the various contract items of work and no additional compensation shall be allowed.

306-14 MEASUREMENT.

Add the following:

Pipe and conduit for storm drain shall be measured by the Linear Foot (in the horizontal plane) along the longitudinal axis between the ends of the pipes per the approved plans and shall not include the inside dimensions of the structures.

The price per linear foot for pipe and conduit for storm drain shall be considered full compensation for all wyes, tees, bends and specials shown on the Plans; the control of ground and surface water; the preparation of sub-grade; the placement and joining of pipe; bracing and shoring; bedding; backfilling the trench; installation and / or removal of temporary caps / plugs; temporary and permanent resurfacing; pipeline testing; and all other work necessary to install the pipe or conduit, complete in place, shall be included in the contract unit price of the installation of pipe. No additional compensation shall be allowed.

Add the new section as follows:

306-16 PIPE LAYING. Proper and suitable tools and appliances for safe handling of pipe and fittings shall be employed. Care shall be exercised to avoid damage to pipe and fittings. All pipe and fittings shall be carefully examined by the Contractor for defects at the time of laying, and no defective pipe or fitting shall be installed. If a defect in a pipe or fitting shall be replaced at the Contractor's expense. All pipe and fittings shall be thoroughly clean at the time of laying and shall

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be handled in such a manner as to maintain this condition by preventing the entrance of foreign material.

Removal of plugs that were temporarily placed, to keep dirt and debris from entering laid pipe between stages, or at pipe connections, shall not be paid for separately, but shall be included in the contract unit price for Pipe.

The Contractor shall sawcut pavement around all areas to be removed prior to the start of any excavation. The depth of cut shall be deep enough to provide a clean, straight break without loosening, cracking, or damaging adjoining asphalt concrete.

Contractor shall verify all utilities specified on plans within the trench zone prior to trench excavation. All excavated materials shall be immediately removed from the site and recycled or disposed of at the contractor's expense at a legal dumpsite. Pipe bedding, installation and trench backfill shall be in accordance with SDRSD D-60 and Section 217-1, 217-2, 306-7.3, and Table 306-3.4(A) of the Standard Specifications.

After installation of RCP storm drains, the contractor shall slurry backfill all trench locations specified on the plans in accordance with SDRSD G-36. Slurry back fill shall be class 100-E-100 and conform to Table 201-1.1.2 of the Standard Specifications. Slurry shall be placed directly above the RCP and resurfaced and capped with 4.5" AC in accordance with SDRSD G-24, Type A and Section 302-5, 203-6, and 200-1 of the Standard Specifications.

SECTION 314 – TRAFFIC STRIPING, CURB AND PAVEMENT MARKINGS AND PAVEMENT MARKERS

314-1 General.

Add the following new subsections:

314-1.1 Replacement. All stripes, markings and markers shall be replaced in kind, per original layout (or as directed by the Engineer), by the Contractor. Striping to match adjacent street markings, stop signs, crosswalks, limit lines. Paints shall be rapid dry and shall be supplied in accordance with Section 214 of the Standard Specifications. Paint shall be applied in accordance with Section 314 of the Standard Specifications. Contractor shall apply glass beads per Standard Specifications.

314-1.2 Stop Bar and Legend Stencils. Shall match size and style used by the City of Del Mar.

314-1.3 Payment. The contract lump sum price for Pavement Striping, Markings, and Markers shall be considered as full compensation for furnishing all labor, materials, tools and equipment, and for all work involved in the replacement of painted lines, markings, markers and signage, and no additional compensation will be allowed.

END OF PART 3

CHAPTER IV

MODIFICATIONS TO THE STANDARD SPECIFICATIONS

“GREENBOOK” PART 4 – EXISTING IMPROVEMENTS

**MODIFICATIONS TO THE STANDARD SPECIFICATIONS
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SECTION 400 – PROTECTION AND RESTORATION

400-1 GENERAL.

Add the following two new subsections:

400-1.1 Protection and Restoration of Existing Improvements. The Contractor shall relocate, repair, replace or re-establish all existing improvements within the project limits which are not designated for removal (e.g. curbs, gutters, sidewalks, driveways, fences, walls, irrigated systems, signs, utility installations, pavements, structures, landscaping, etc.) which are damaged or removed as a result of his operations or as required by the Plans and Specifications. Damaged or removed traffic signal detector loops and or irrigations systems shall be replaced or repaired and returned to service within 72 hours, unless otherwise directed by the Engineer.

Where existing traffic striping, pavement markings, and curb markings are damaged or their reflectivity reduced by the Contractor's operations, such striping or markings shall also be considered as existing improvements and the Contractor shall repaint or replace such improvements.

Relocations, repairs, replacements or reestablishments shall be at least equal to the existing improvements and shall match such improvements in finish and dimensions, unless otherwise specified.

The Contractor shall protect, by covering in plastic, existing brick surfaces, walls and other existing improvements to remain during concrete and asphalt concrete construction.

Protection of Existing Trees and Plants: For existing trees and plantings to be protected-in-place, the Contractor shall adhere to the following:

- a) Prior to clearing and grubbing, the contractor shall verify with the Owner's representative those plants that are to remain. Contractor shall document with photographs the condition of plant material prior to any construction.
- b) Existing plants which are to remain in the project shall be tagged and identified by the contractor prior to start of work. Contractor shall provide maintenance for existing material during construction.
- c) Damage to a plant that results in death or permanent disfiguration shall result in the complete removal of the plant, including roots from the site by the contractor. The contractor, at his own expense, shall replace the plant with one of equal value as established by the landscape architect or reimburse the owner the cost of said replacement if a replacement cannot be obtained. The landscape architect or City arborist shall be the sole judge of the replacement of the plant.
- d) All existing plant material that is to remain shall be protected at all times from damage by men and equipment. All damage by the contractor to existing plants shall be repaired at their expense to at least the existing condition prior to construction. If pre-construction photographic documentation is not available, record drawings shall dictate the site condition prior to the start of construction.

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- e) A tree protections zone (TPZ) shall be established for existing trees to remain. No digging, trenching, or other soil disturbance shall be allowed within the TPZ area. No storage of material shall be allowed within the TPZ area.
- f) The contractor shall ensure that no foreign material and/or liquid, such as paint, concrete, cement, turpentine, acid or the like, be deposit or allowed to be deposited on any soil within the tree area or within six (6) feet of a shrub or vine. Should any such poisoning of the soil occur, the contractor shall remove said soil as directed by the owner's representative and replace it with acceptable soil at no expense to the owner.
- g) Where it is necessary to excavate in close proximity to existing plant material, all possible caution shall be exercised to avoid injury to roots and trunk. Excavation close to trees shall be by hand, tunneling under roots two (2) inches and larger in diameter. Cutting of roots, two (2) inches and larger shall be only on the approval of the city arborist. Paint cut roots within 24 hours of initial damage with approved pruning paint. When this is not possible, keep the side of excavation adjacent to tree shaded with moist burlap or canvas.

When excavating within the drip lines of all trees to remain the Contractor will exercise extreme caution and notify the City's Engineer. No mechanical trenching shall be allowed within the drip lines of existing trees to remain. Use of an air spade or hand-digging is allowable. Proposed excavations within the drip line of existing trees shall be marked out by the Contractor and approved by the Engineer prior to start of work.

If the Contractor impacts and/or re-plants existing trees to be protected-in-place, the Contractor shall obtain approval from the City's arborist to verify health and survival of tree. If the existing tree is deemed as damaged, by the City or his representative, the Contractor shall replace the tree with the same in-kind species, at the Contractor's expense.

400-1.2 Responsibility for Damage. In addition to the provisions of Subsection 5-4 Insurance of the Standard Specifications as between the Agency and the Contractor, the Contractor shall take and assume all responsibility for the Work as stated herein and/or shown on the Plans.

The Contractor shall bear all losses and damages directly or indirectly resulting to him, to the Agency, the Engineer, their officers, employees, and agents, or to others on account of the performance or character of the work, unforeseen difficulties, accidents or any other causes whatsoever.

The Contractor shall assume the defense of and indemnify and save harmless the Agency, the Engineer, their officers, employees, and agents respectively from all claims, loss, damage, injury and liability of every kind, nature, and description, directly or indirectly arising from the performance of the Contract or work, regardless of responsibility for negligence; and from any and all claims, loss, damage, injury, and liability, howsoever the same may be caused, resulting directly or indirectly from the nature of the work covered by the Contract, regardless of responsibility for negligence.

The Agency does not and shall not; waive any rights against the Contractor which it may have be reason of the aforesaid hold harmless agreements, because of the acceptance by the Agency or deposit with the Agency by Contractor, of any insurance policies required herein or as described in Subsection 7-3. The aforesaid hold harmless agreement by Contractor shall apply to all damages and claims for damages of every kind suffered or alleged to have been suffered by reason of any of the aforesaid

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operations of Contractor, or any subcontractor, regardless of whether or not such insurance policies are determined to be applicable to any of such damages or claims for damages.

No act by the Agency, Engineer or their representatives in processing or accepting any plans, in releasing any bond, in inspecting or accepting any work, or of any other nature, shall in any respect relieve the Contractor or anyone else, from any legal responsibility, obligation or liability he might otherwise have.

400-2 PERMANENT SURVEY MARKERS.

Add the following:

In accordance with Senate Bill 1563, the Contractor shall file a Corner Record Form referencing survey monuments subject to disturbance in the Office of the County Surveyor prior to the start of construction and also prior to the completion of construction for the replacement of survey monuments. The Contractor shall not disturb survey monuments, lot stakes (tagged), or bench marks without the consent of the Engineer. The Contractor shall bear the expense of replacing any that may be disturbed. Replacement shall be done only under the direction of the Engineer by a Registered (licensed) Licensed Land Surveyor or a Registered Civil Engineer authorized to practice land surveying within the State of California.

The centerline monuments for all intersections within the project limits shall be permanently tied out prior to cold milling and overlay and re-established after final asphalt concrete paving. Upon submittal of all corner records and centerline tie notes and monuments to the Office of the County Surveyor, the Contractor shall submit copies of the same records to the Agency. Contractor shall also submit accepted and filed corner records upon acceptance by the Office of the County Surveyor prior to completion of the project.

400-3 PAYMENT.

Delete and replace with the following:

All costs to the Contractor for protecting, removing, restoring, relocating, repairing, replacing, or re-establishing and/or supporting existing improvements shall be included in various items of Work and no additional compensation will be allowed.

Survey Monument Preservation shall be included in various items of Work and no additional compensation will be allowed therefore.

SECTION 401 - REMOVAL

401-1 GENERAL.

Replace the entire subsection with the following:

Unless otherwise stated on the Plans or Specifications, all material removed from the Work shall become the property of the Contractor and shall be disposed of in a lawful manner. Burning shall

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not be permitted on the site.

The Contractor shall conform to the following requirements:

- a) In order to protect the public streets from deterioration due to hauling of materials, the Contractor shall submit, prior to the Pre-Construction Meeting, for approval a proposed route for hauling of materials for disposal. Upon approval, the Contractor shall strictly adhere to that route, unless written permission from the Engineer is obtained to change the route.
- b) Prior to making removals, the Contractor shall meet with the Engineer to verify the limits of removals, locations of joins, to establish smooth joins and to ensure proper drainage. The Contractor may make minor changes in the location of joins and the limits of removals, provided a smooth join and proper drainage can be achieved and it has obtained prior written approval from the Engineer.
- c) The Contractor shall be responsible for recycling and for obtaining a suitable disposal site for the material not suited for recycling, and pursuant to Section 300-2.6, Surplus Materials, of the Standard Specifications, shall, upon request, file with the Engineer the written consent of the owner of the property upon which he intends to dispose of such material.
- d) Any concrete crushing of the removed concrete is not allowed at the job site at any time.
- e) The Contractor shall notify the Engineer, in accordance with Section 2-9, Changed Conditions, of the Standard Specifications, of any changed conditions or material differing from that represented in the Contract which the Contractor believes to be hazardous waste.
- f) All combustible waste materials resulting from clearing and grubbing or from any construction operations of this contract shall be removed from the site as directed by the Engineer.

The Contractor is responsible for securing all required haul permits to transport removal material from the project site to the approved disposal site and the paying of all fees associated with the disposal of this material.

401-2 ASPHALT CONCRETE PAVEMENT.

Add the following:

Removal of existing asphalt concrete (AC) pavement shall be in accordance with Section 300-2, Unclassified Excavation, and this section of the Standard Specifications and shall consist of excavating and disposing of existing AC pavement, which includes asphalt concrete, underlying untreated base, and any deleterious debris associated with the removal, to facilitate the construction of new asphalt concrete pavement.

Remove existing AC pavement to the subgrade, and in areas shown on the Plans. Locations and area size are as shown on the Plans, outlined by paint on the roadway prior to removals, or as required by the Engineer.

Contractor shall sawcut pavement around all areas to be removed, prior to the start of any excavation, unless the entire pavement section is removed by cold milling.

All materials removed shall be lawfully disposed of at a site secured by the Contractor. The Contractor shall recycle excavated and demolition materials. Provide the Engineer with a letter

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indicating the final disposition of all excavated and demolition materials from the project within five (5) working days after project completion. No excavated or demolition materials shall be left in the public right of way overnight.

401-3 CONCRETE AND MASONRY IMPROVEMENTS.

Add the following:

Saw cutting shall conform to the provisions of Section 3-12, Work Site Maintenance” (with special regard to 3-12.1, General, 3-12.2, Air Pollution Control, 3-12.3, Noise Control, and 3-12.6, Water Pollution Control) and 401, Removal,” of the Standard Specifications and these Technical Provisions.

Sawcut using a power-driven saw. The depth of cut shall be deep enough to produce a clean, straight break without loosening, cracking, or damaging adjoining asphalt or concrete. Waste material from sawcut operations shall be broom cleaned or vacuumed, and disposed of. Cleaning of sawcut area by washing and directing waste to public storm drains shall not be permitted.

Existing concrete and miscellaneous removals shall be immediately removed from the project site and disposed of by the Contractor at his own expense at a legal dump and/or recycling site.

All materials removed shall be lawfully disposed of at a site secured by the Contractor. The Contractor recycle concrete, steel, and other excavated materials. Provide the Engineer with a letter indicating the final disposition of all excavated and demolition materials from the project within 5 working days after project completion. No excavated or demolition materials shall be left in the public right of way overnight.

401-5 OTHER IMPROVEMENTS.

Add the following:

- a) **Remove and Reinstall Wooden Fence.** Remove, Salvage, and Reinstall existing Wooden fence and gates shall include removal and salvaging fencing, posts, panels, hangers, and anchoring / connection hardware, and reinstallation after proposed hardscape improvements have been constructed, at locations shown on the plans and as directed by the Engineer. Concrete footing or foundation (if applicable) shall be removed completely and disposed of properly. Removal and disposal of any other appurtenances, not salvageable and reusable, as necessary to cleanly and completely remove the existing fencing and backfill excavation areas to grade and allow for the construction of proposed improvements shall be included in the bid price for this item. Any signage / decorative items found attached to the fencing shall be disconnected from the fencing and returned to the property owner.

Removed facilities shall become the property of the Contractor and shall be removed from the project site, except as otherwise directed by the Engineer.

New concrete footing / foundations shall be of the same dimensions as the existing. Concrete shall be concrete class 500-C-2500 per Section 201 of the Standard Specifications and per these Technical Provisions.

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- b) **Remove and Reinstall Metal Fence.** Remove, Salvage, and Reinstall Metal fence shall include removal and salvaging fencing, posts, panels, hangers, and anchoring / connection hardware, and reinstallation after proposed hardscape improvements have been constructed, at locations shown on the plans and as directed by the Engineer. Concrete footing or foundation (if applicable) shall be removed completely and disposed of properly. Removal and disposal of any other appurtenances, not salvageable and reusable, as necessary to cleanly and completely remove the existing fencing and backfill excavation areas to grade and allow for the construction of proposed improvements shall be included in the bid price for this item. Any signage / decorative items found attached to the fencing shall be disconnected from the fencing and returned to the property owner.

Removed facilities shall become the property of the Contractor and shall be removed from the project site, except as otherwise directed by the Engineer.

New concrete footing / foundations shall be of the same dimensions as the existing. Concrete shall be concrete class 500-C-2500 per Section 201 of the Standard Specifications and per these Technical Provisions.

- c) **Relocate Existing Sign.** Remove, Salvage, and Relocate Existing Sign shall be at locations shown on the plans and as directed by the Engineer and shall include removal, salvaging, and reinstalling sign on a new SDRSD M-45 post, within new mounting hardware, in new location, and removing and disposing of concrete foundations / anchor post. Removal of concrete foundations / footing / anchor posts and associated reinforcement, and other appurtenances as necessary to cleanly and completely remove the existing sign items, that are not reusable, and backfill excavation areas to subgrade and allow for the construction of proposed improvements shall be included in the contract price for this item. The sign shall be reinstalled at a new location, after proposed hardscape improvements have been constructed, with new break-away sign post per SDRSD M-45, with anchor post / sleeve.

Removed facilities shall become the property of the Contractor and shall be removed from the project site, except as otherwise directed by the Engineer.

- d) **Remove and Reinstall Landscaping Block Wall.** Remove, Salvage, and Reinstall wall shall be removed at locations shown on the plans and as directed by the Engineer, and disposed of properly. The Contractor shall coordinate with the City and the wall owner prior to removals. Removal of any embedded portion / concrete foundations / anchoring posts, hardware, and removal of other appurtenances as necessary to cleanly and completely remove the existing wall and backfill excavation areas / holes to original grade and allow for the construction of proposed improvements shall be included in the bid price for this item. Landscaping block wall shall be reinstalled to the same height and location, in coordination with the wall owner.

Wall blocks shall be salvaged and reinstalled in-kind.

- e) **Remove and Reinstall Existing Mailbox.** Remove, Salvage, and Reinstall Mailbox shall include removal, salvaging mailbox and anchoring hardware, and reinstallation after proposed hardscape improvements have been constructed. The Contractor shall notify and coordinate

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with the property owner after the Project Construction Schedule has been determined and provide prior notification, per the Owner’s requested notification period (1 week minimum), for the Owner to retrieve mail, within mailbox, prior to the Contractor’s removal and salvage work.

- f) **Remove Storm Drain Curb Inlet Structure.** For the Storm Drain Curb Inlet removal, the Contractor shall temporarily plug the pipe openings, to prevent debris and foreign materials from entering pipelines to remain-in-place, and remove the cover and frame, miscellaneous metals, and the inlet shall be removed and disposed of. The existing inlet shall be removed, at locations shown on the plans or as directed by the Engineer, and disposed of properly. Backfill to finished level with in-kind material, compaction to 95%, removal of any appurtenances, and repair of landscaping and irrigation or paving as necessary to cleanly and completely remove the existing inlet to allow for the construction of proposed improvements, shall be included in the contract price for this item.
- g) **Relocate Irrigation Equipment.** Relocate existing irrigation equipment, that conflict with improvements, and reconnect so that the irrigation services the same area of remaining landscaping. Prior to the commencement of relocation work, the Contractor shall meet with the City’s representative to photograph, test equipment, and document the existing conditions of all items to be relocated. The Contractor shall notify and coordinate with the utility owner, for the water shut-off, prior to removals and disconnection. The Contractor shall re-establish the relocated irrigation equipment connections to be functionally operational. Contractor shall install and/or relocating irrigation heads, piping, electrical connections, wiring, necessary for a functional irrigation system. Irrigation Equipment which has been damaged or destroyed as a result of the Contractor’s operations, shall be repaired or replaced by the Contractor, at its expense, with replace-in-kind irrigation materials, or better. The irrigation system, once relocated and reconnected, shall be tested for fully automatic operation with the City present.
- h) **Miscellaneous Landscaping and Hardscape Relocations.** The work under this item shall include the following items: 3’ x 5’ PCC Sidewalk Landing, Ice Plant replacement along 1525 San Dieguito Drive frontage, and the Rock Wall Replacement at STA 6+05 San Dieguito Drive (West), and all removals and relocations not specifically listed in the Plans or otherwise covered by these Specifications, including all necessary removals, relocations, and restorations of walls, plants, irrigation, hardscape, signs and other items, whether shown on the Plans or not, and as necessary to complete the improvements.

Miscellaneous Landscaping and Hardscape Relocations items shall be removed at locations shown on the plans and as directed by the Engineer, salvaged for future re-installation, or disposed of properly if not salvageable. The Contractor shall coordinate with the City and the landscaping / hardscape owner prior to removals, salvaging, and relocations. Removal of any embedded portion / underground facilities / concrete foundations / anchoring posts, hardware, and removal of other appurtenances as necessary to cleanly and completely remove the existing landscaping / hardscape and backfill excavation areas / holes to original grade and allow for the construction of proposed improvements shall be included in the bid price for this item.

The rock wall shall be reinstalled to the same height and in coordination with the wall owner.

MODIFICATIONS TO THE STANDARD SPECIFICATIONS “GREENBOOK” PART 4 – EXISTING IMPROVEMENTS

Relocate existing miscellaneous landscaping and hardscape shall be relocated outside the limits of proposed improvements as shown on the Plans. Prior to the commencement of relocation work, the Contractor shall meet with the City to photograph, test equipment, and document the existing conditions of all items to be relocated. The Contractor shall notify and coordinate with the owner prior to removals and disconnections. The Contractor shall re-establish / relocate and re-connect to maintain intended function. Existing miscellaneous landscaping, hardscape, and equipment which has been damaged or destroyed as a result of the Contractor's operations, shall be repaired or replaced by the Contractor, at its expense, with replace-in-kind materials, or better.

- i) **Miscellaneous Removals and Relocations.** The work under this item shall include all removals and relocations not specifically listed in the Plans or otherwise covered by these Specifications, including all necessary removals, relocations, and restorations of walls, plants, hardscape, signs and other items, whether shown on the Plans or not, and as necessary to complete the improvements.

Delete Sections 401-6 & 401-7 in their entirety and replace with the following:

401-6 MEASUREMENT AND PAYMENT. Sawcutting of existing improvements to be removed as specified shall be considered incidental to the removal of the various improvements.

Reinforcing or other steel may be encountered in portions of existing concrete items to be removed. No additional compensation shall be allowed for the removal of concrete containing reinforcing or other steel.

All areas of demolition shall be free of debris and graded per plan.

The Contract includes the pay items for removals, separate from Clearing and Grubbing, under the Technical Provisions.

1. Sawcut Existing AC or PCC - Sawcutting of existing improvements to be removed as specified shall be considered incidental to the removal of the various improvements.
2. Miscellaneous Removals - Payment for Miscellaneous Removals shall be considered included in Clearing and Grubbing, and shall include all labor, tools, equipment, materials and incidentals necessary for accomplishing the work complete and in place, including haul permits, fees, removal, haul away, and disposal of materials.
3. Miscellaneous Relocations - Payment for Miscellaneous Relocations shall be considered included in Miscellaneous Landscaping and Hardscape Relocations, and shall include all labor, tools, equipment, materials and incidentals necessary for accomplishing the work complete and in place, including salvaging, replacing in-kind unsalvageable materials, reinstallation / reconstruction, removal and disposal of materials.

**MODIFICATIONS TO THE STANDARD SPECIFICATIONS
“GREENBOOK” PART 4 – EXISTING IMPROVEMENTS**

SECTION 402 - UTILITIES

402-1 LOCATION.

402-1.1 General.

Add the following:

- a) The existence and location of any underground utilities or structures are not shown on the plans. The Contractor shall take precautionary measures to protect all utilities as required by the specifications, the Contractor shall perform all exploratory excavations necessary to determine the exact locations and depths of all existing underground facilities that may conflict with the proposed improvements.
- b) The Contractor shall notify the utilities at least 48 hours in advance of excavating around any of their structures and to determine the location of all utilities.
- c) It shall be the Contractor's responsibility alone to determine the location of underground utilities or substructures of every nature and to protect them from damage prior to commencing Work. The Contractor shall pothole all underground utilities which are shown on the Plans, or marked in the field by utility owners as being within 5 feet horizontal distance from the edge of any planned project sewer, water main, storm drain, retaining walls, electrical conduit, gas main, telephone conduit, cablevision conduit, irrigation conduit alignment, or other conduit of any type. The potholes shall be at all crossings of each utility and at one hundred (100) foot maximum intervals along each utility. The Contractor agrees to be fully responsible for any and all damages, which may be caused by his failure to exactly locate and preserve any and all underground utilities. In the event the Contractor encounters underground utilities he shall verify the exact location of the utility and immediately notify the Engineer, regardless of whether the unknown utility conflicts with the proposed construction or not. In the event of such a previously unknown conflict, the Contractor shall immediately notify the Engineer as to the extent, if any, of delays or additional costs resulting from said conflict. The Contractor shall perform Work and provide necessary materials to disconnect or relocate existing utilities as indicated. Relocate existing utilities at the direction of the Engineer only if utility conflicts cannot be resolved or avoided. Relocation of utilities will be a changed condition.
- d) The Contractor shall perform potholing of all existing utility connections as a first order of Work for each phase of the Work. The Contractor shall submit a complete Pothole Report to the City and Engineer seven (7) working days prior to trenching. The Pothole Report shall include, at a minimum, dates, station location per Drawings, station offset, utility type and size, and depth from surface to top and bottom of pipe. The Contractor shall backfill and patch these potholes immediately after establishing those locations. The backfill shall conform to the relative compaction requirements for trenches.
- e) When uncharted or incorrectly charted underground piping or other utilities and services are encountered during site Work operations, notify the applicable utility company immediately to obtain procedure directions. Cooperate with the applicable utility company in maintaining active services in operation.

MODIFICATIONS TO THE STANDARD SPECIFICATIONS
“GREENBOOK” PART 4 – EXISTING IMPROVEMENTS

- f) **WATER SUPPLY.** The Contractor shall provide, at his own expense, an adequate supply of water of a quality suitable for construction purposes. The Contractor shall provide and operate all pumping facilities, pipelines, valves, hydrants, storage tanks, and all other equipment necessary for the adequate development and operation of his water supply system. The Contractor shall be solely responsible for the adequate functioning of his water supply system and shall be solely liable for any claims arising from the use of same, including discharge or waste of water there from.
- g) **WATER CONNECTIONS.** The Contractor shall obtain approval for Application for Construction Water Meter from the Finance Department. Upon clearance of payment and approval, the Contractor shall proceed to the Public Works Department to receive approved water meter and install water meter connection prior to drawing water from any fire hydrant or pipeline. For each such connection made, the Contractor shall first attach to the fire hydrant or pipeline a valve and a meter, if required by said authority, of a size and type acceptable to said authority, City, and/or Agency. If the Contractor chooses to obtain water within the City of Del Mar, the Contractor shall coordinate with the Public Works Department. Contractor shall comply with all requirements set forth by the Public Works Department. The Contractor shall apply for a construction meter. <https://www.delmar.ca.us/307/Utility-Billing>
- h) **REMOVAL OF WATER CONNECTIONS.** Before final acceptance of the Work on the project, all temporary connections and piping installed by the Contractor shall be entirely removed, and all affected improvements shall be restored to their original condition, or better, to the satisfaction of the Engineer and to the City or Agency owning the affected utility.
- i) **POWER.** The Contractor shall provide, at his own expense, all necessary power required for his operations under the contract, and shall provide and maintain all temporary power lines required to perform the Work in a safe and satisfactory manner.
- j) **CONSTRUCTION LIGHTING.** All Work conducted at night or under conditions of deficient daylight shall be suitably lighted by the Contractor to insure proper Work and to afford adequate facilities for inspection and safe working conditions.
- k) **CONSTRUCTION WIRING.** All wiring for temporary electric light and power shall be installed and maintained in first- class manner and shall be securely fastened in place. All electrical facilities shall conform to the requirements of the OSHA Safety and Health Standards for construction.

Underground Service Alert.

Attention is directed to Section 4215 through 4217 of the Government Code of the State of California requiring that two (2) working days prior to commencing any excavation, Underground Service Alert of Southern California be notified by telephone, toll free, 1-800-422-4133 or 811, for the assignment of an “Inquiry Notification Number”. The “Inquiry Notification Number” must be given to the Engineer prior to the start of any Work on this project. If the Contractor fails to obtain this number, the Agency reserves the right to stop all Work on the project. No additional compensation or extension of working time shall be allowed for this delay.

MODIFICATIONS TO THE STANDARD SPECIFICATIONS “GREENBOOK” PART 4 – EXISTING IMPROVEMENTS

402-4 RELOCATION.

Add the following:

The Contractor shall examine the site carefully and note the existing water valves, sewer manholes, storm drain manholes, cable television boxes, underground utility cables, utility boxes, cleanouts, fire hydrants, traffic signs, shrubbery, etc. in the area where the proposed Work is to be constructed.

The Contractor is responsible for the following tasks:

- a) Make arrangements with all non-City utilities for adjustment of existing boxes to new finish grades or do the adjusting himself with the utility company’s approval.
- b) Remove all temporary facilities from the site.
- c) The site shall be thoroughly cleaned as specified in these Project Specifications and the Standard Specifications.
- d) The material and equipment list, along with any maintenance instructions as specified in the body of the Specifications, shall be submitted to the City.
- e) All guarantees and warranties shall be submitted to the City.

Replace the second sentence of the last paragraph with the following:

When not otherwise required by the Plans and specifications and when directed by the Engineer, the Contractor shall arrange for the relocation of service connections, as necessary, between the meter and property line, or between the meter and limits of construction.

402-5 DELAYS DUE TO UTILITY CONFLICTS.

Add the following:

All notification to utility companies insofar as the relocation or removal of a utility shall be made by the Engineer based on Contractor's request as submitted to the Engineer at least 48 hours in advance of the needed work. Any costs for delay of the Contractor of utility companies in this regard shall be assigned to the Contractor, if these costs are a result of the Contractor's request being untimely in any respect excepting thereof any delay cost incurred as a result of the utility company not responding at their agreed time.

402-6 COOPERATION.

Add the following:

The contractor shall cooperate with all agencies affected by the project and notify them at least 72-hours prior to commencement of any work and adjacent to this project.

The City has endeavored to show on the Plans the approximate locations of all private and public utilities and facilities that will be relocated prior to the Contractor’s construction. The Contractor shall be responsible for verifying utility locations. However, it is possible that the utilities have not yet been installed at the time of the Contractor’s construction.

MODIFICATIONS TO THE STANDARD SPECIFICATIONS “GREENBOOK” PART 4 – EXISTING IMPROVEMENTS

It is anticipated that the “Gas to be relocated by SDG&E,” as shown on the storm drain plans, will require coordination among the Contractor, the City, and SDG&E. The Contractor shall include this coordination in their planning, and construction of the storm drain shall not proceed until the gas line has been relocated.

The Contractor shall install the joint trench facilities to maintain the minimum required vertical clearance from the proposed storm drain facilities.

Compensation for conforming to the requirements of Cooperation, including furnishing all labor, materials, equipment and incidentals for accomplishing the work as specified herein, shall be considered included in the various contract item of work and no additional compensation shall be allowed.

Add the following new subsection:

402-7 UTILITY MARKINGS. Upon completion of the project, the Contractor shall be required to remove, to the satisfaction of the Engineer, all utility locator markings and utility tie-out paint markings that either the Contractor, the Agency or utility companies make during the course of the Work from the surfaces of sidewalks, driveway approaches, curb and gutters using the removal method acceptable to the Engineer. Any damage to the existing improvements due to the Contractor’s removal operation shall be repaired at the Contractor’s expense. Payment for removing utility markings shall be included in the various applicable items of Work, and no additional compensation will be allowed therefore.

SECTION 403 – MANHOLE ADJUSTMENT AND RECONSTRUCTION

403-1 GENERAL.

Delete and replace the entire section with the following:

403-1.1 Adjust Manholes and Vaults to Grade. This work shall consist of adjusting manhole frames and covers and vaults to finished grade. Prior to the start of any overlay construction, the Contractor is required to tie-out all existing manholes, vaults, and inlets to the satisfaction of the Engineer. This work shall be performed by contractor unless noted on the Plans that work is to be performed by others.

Manholes and vaults, within the area shall be set to finish grade by the Contractor. Work shall be done in accordance with the provisions of Section 403, Manholes Adjustment and Reconstruction, of the Standard Specifications, and the respective owner/agency standards, unless otherwise specified.

Work shall include the removal or furnishing of grade rings as necessary to adjust the manhole, vault, and inlet to grade.

MODIFICATIONS TO THE STANDARD SPECIFICATIONS “GREENBOOK” PART 4 – EXISTING IMPROVEMENTS

Existing manhole frame and covers shall be replaced with new frames and covers per Agency standard. Where existing manhole is to be adjusted within the proposed roadway prism, a traffic rated manhole cover shall be furnished and used. Adjustment of manhole to grade shall conform to the requirements of the respective owner/agency (City or Utility Company).

Manholes and vaults in asphalt concrete pavement shall be set to finish grade in accordance with provisions of Section 403-3, Manholes In Asphalt Concrete Pavement, of the Standard Specifications, unless otherwise specified. In the case of portland cement concrete pavement or sidewalk, manhole and vaults frames shall be set to finish grade before concrete pouring. Asphalt Concrete and Portland Cement Concrete material shall conform to Section 201, Concrete, Mortar, and Related Materials, and Section 203, Bituminous Materials, respectively, as specified for utility adjustments, within these Technical Provisions.

Repaving, required as a result of reconstructing or adjusting all manhole and vaults frames and covers to grade, shall be the responsibility of the Contractor and the cost thereof shall be included in the contract unit price of the associated pavement.

Manholes and vaults to be adjusted in non-paved, non-hardscaped areas shall be adjusted such that the elevation of the frame and lid are 6 inches above finished grade. The resultant void shall be backfilled and compacted to not less than 90% relative compaction.

Manholes and vaults shall be thoroughly cleaned of any construction debris which may have entered due to the Contractor's operations and shall clean all foreign material from the top of the frames and covers.

403-1.2 Adjust Valves, Meter Boxes, Cleanouts, and Pullboxes to Grade. This work shall consist of adjusting valves, valve boxes, meter boxes, cleanouts or pullboxes to finished grade. Prior to the start of any removal construction, the Contractor is required to tie-out all existing valves, valve boxes, meter boxes, cleanouts or pullboxes to the satisfaction of the Engineer. This work shall be performed by contractor unless noted on the Plans that work is to be performed by others.

Valves, cleanouts, and boxes within the area shall be set to finish grade by the Contractor. Work shall be done in accordance with the provisions of Section 403, Manholes Adjustment and Reconstruction, of the Standard Specifications, unless otherwise specified.

Work shall include the removal or furnishing of sub-base, shims, or other materials necessary to adjust the items to grade. In portland cement concrete pavement and sidewalk areas, adjustments to grade shall be done prior to placement of concrete. Adjustment to grade shall conform to the requirements of the respective owner/agency (City or Utility Company).

Construction shall conform to the Standard Specifications and these Technical Provisions:

- a) After placing the Surface Course, holes shall be cut where the valve or box, or pullbox exists. The inside perimeter of the hole shall be at least 6 inches larger than the outside perimeter of the valve/box.

MODIFICATIONS TO THE STANDARD SPECIFICATIONS
“GREENBOOK” PART 4 – EXISTING IMPROVEMENTS

- b) The valve / box shall then be raised to the finished grade.
- c) A concrete collar shall be poured around the valve / box / cleanout to within two inch of finished pavement grade. Said collar shall have a minimum depth of 12 inches and be placed on thoroughly compacted subgrade.
- d) After concrete has cured for 48 hours, it shall be tack coated and asphalt concrete shall be placed to finished pavement grade within 24 hours.
- e) At the Contractor’s option, integral black colored seven sack mix concrete may be utilized, in which case the concrete shall be placed to finished grade and finished smooth. Eliminate Step d.

Coordinate all temporary valve closures, relocations and testing work, with owner (City or Utility Company).

Coordinate all temporary valve closures, relocations and testing work with the respective owner/agency. Where an existing valves/boxes are to be adjusted within the roadway, a traffic rated lid shall be used.

Pullboxes, meter boxes, cleanouts and valve boxes shall be thoroughly cleaned of any construction debris which may have entered due to the Contractor’s operations. Valves shall be checked with a valve key for proper operations.

403-1.3 Adjust Vaults to Grade.

Work shall include the removal or furnishing of grade rings/shims as necessary to adjust the vault to grade. Adjustment of vault to grade shall conform to the requirements of the Owner (Owner or Utility Company) for the structure being adjusted.

Utility vaults within the area to be paved or graded, shall be set to finish grade by the Contractor. Vaults in asphalt concrete pavement shall be set to finish grade in accordance with the provisions of Section 403, “Manholes Adjustment and Reconstruction.”

In the case of portland cement concrete, structure frames shall be set to finish grade before concrete pouring. Repaving required as a result of reconstructing or adjusting the frames and covers of all vaults shall be the responsibility of the Contractor and the cost thereof shall be included in the bid item for pavement.

403-5 PAYMENT.

Delete and replace the entire subsection with the following:

The Contract includes the pay items for utility adjustments under the Technical Provisions.

Full compensation for furnishing all labor, materials, tools, and equipment used in subgrade preparation, compaction, and reworking subgrade to meet required compact shall be considered as included in the contract price paid for work/item requiring subgrade preparation and no additional compensation will be allowed.

MODIFICATIONS TO THE STANDARD SPECIFICATIONS
“GREENBOOK” PART 4 – EXISTING IMPROVEMENTS

Payment for excavating or backfilling associated with the adjustment or reconstruction of the manhole, vault, valve, cleanouts, or box shall be considered as included in the item of work for adjustment or reconstruction.

Utility manholes, vaults, valves, cleanouts, and boxes, adjusted by others, shall NOT be included in the count per Each measurement for payment.

Coordination for adjustments, with Utility owner(s) / Agency, shall be included in other items of work and no additional compensation shall be allowed.

END OF PART 4

CHAPTER V

MODIFICATIONS TO THE STANDARD SPECIFICATIONS

“GREENBOOK” PART 6 – TEMPORARY TRAFFIC CONTROL

**MODIFICATIONS TO THE STANDARD SPECIFICATIONS
“GREENBOOK” PART 6 – TEMPORARY TRAFFIC CONTROL**

SECTION 600 – ACCESS

600-1.1 Traffic and Access.

Add the following:

The Contractor shall provide safe public access and assistance to all properties impacted by the Work at all times.

Within ten (10) calendar days after notification of award, the Contractor shall submit, for review and approval by the Engineer, a Traffic Control Plan. The Traffic Control Plan shall be signed and stamped by a traffic control specialist, familiar with the preparation of traffic control plans per the California MUTCD. WORK ON CAMINO DEL MAR, VIA DE LA VALLE OR JIMMY DURANTE BOULEVARD ADDITIONALLY REQUIRES A STAMP FROM A CALIFORNIA LICENSED TRAFFIC ENGINEER OR CALIFORNIA LICENSED CIVIL ENGINEER.

The Contractor shall provide, to the Engineer, a telephone number at which the Contractor representatives can be reached, at any hour, should an emergency occur requiring replacement or relocation of the required traffic control devices.

It is essential that the Work be properly planned and that the Work proceed according to the approved schedule.

The Contractor shall provide **general courtesy notices** to all occupants of residences or businesses within 300 feet of proposed Work, printed door hanging type notices measuring 8 1/2 by 11 inches in size advising the occupants of schedule Work affecting access and secondly, **specific notices** to all occupants of residences or businesses advising them when they may have limited access to property due to construction – **BE SPECIFIC and INFORMATIVE** – so the occupants of residences or businesses can plan for the disruption.

Example text: On ____ (Date) from 7:30 AM until 12:00 PM access to your driveway will not be possible due to asphalt street repairs, please remove your vehicles and park in a legal space on the street or at a neighbors property if you will require use of your vehicle.

Contractor shall include contact name and company information and on a formatted sheet as approved by the Engineer.

The Contractor shall provide sufficient written notice, forty-eight (48) hours prior to the start of any phase of the Work, to all affected businesses and property owners, and shall be responsible for protection of all private and public property in the vicinity. The Contractor shall submit a sample notification letter to the Engineer for review and approval prior to distribution. Damages to any such properties or utilities caused by Contractor’s operations shall be corrected by the Contractor at no cost to the Owner.

All signs shall be illuminated or reflectorized when they are used during hours of darkness. All cones, pylons, barricades, or posts used in the diversion of traffic shall be reflectorized.

MODIFICATIONS TO THE STANDARD SPECIFICATIONS
“GREENBOOK” PART 6 – TEMPORARY TRAFFIC CONTROL

All signing, barricading and diversion of traffic shall be subject to the approval of the Engineer. The Contractor shall provide a telephone number at which the Contractor’s representatives can be reached should an emergency occur requiring replacement or relocation of the required traffic devices.

All existing traffic signs and street signs shall be maintained in visible locations during construction. Signs designated for removal shall be salvaged and delivered to the Agency Yard or disposed of as directed by the Agency.

"TEMPORARY NO PARKING" signs shall be posted at least seventy-two (72) hours in advance of the Work. The signs shall be placed no more than 50 feet apart on each side of the alleys, streets, and parking areas and at shorter intervals if conditions warrant. The Contractor shall provide the signs and will be responsible for adding the dates and hours of closure to the signs. Removal of signs and furnishing and placing of barricades, if necessary, for posting of signs shall be provided by the Contractor. Signs shall not be posted on any tree, utility pole or traffic sign. These signs shall be removed when the street is reopened for traffic.

Should the Contractor elect to alter the existing traffic stripes and markings, or to divert the flow of traffic on the construction project for its convenience and there are no specific pavement markings or lane delineations shown on the Plans or in the Specifications, he shall provide the necessary temporary striping in accordance with the California Manual of Uniform Traffic Control Devices (CA MUTCD) Manual, unless otherwise directed by the Engineer.

At least one 12-foot wide traffic lane shall be provided for each direction of travel on all streets at all times, except as permitted by the Engineer. The traffic lanes shall be maintained on pavement, and shall remain unobstructed.

Clearances from traffic lanes shall be 5 feet to the edge of any excavation and 2 feet to the face of any curb, pole, barricade, delineator, or other vertical obstruction. The use special of equipment maybe required (i.e. offset boom excavating equipment, etc.) to maintain traffic lane width, no additional compensation will be made.

The Contractor shall provide access to all fire hydrants, valves, vaults, meters and pull boxes at all times. Traffic signals, pedestrian signals and stop signs shall remain unobstructed at all times.

All trenches shall be plated at the end of each working day.

The Contractor shall schedule the Work in such a manner that no construction vehicle shall traverse any newly laid street pavement.

**MODIFICATIONS TO THE STANDARD SPECIFICATIONS
“GREENBOOK” PART 6 – TEMPORARY TRAFFIC CONTROL**

**SECTION 601 – TEMPORARY TRAFFIC CONTROL FOR
CONSTRUCTION AND MAINTENANCE WORK ZONES**

601-3.6.4 Street Closures, Detours, Barricades.

Add the following:

The Contractor shall prepare a permit application for street closure and shall attach two copies of the proposed traffic control signing, barricading, and/or detour routing. The permit application and accompanying attachments shall be submitted to the Engineer for review at least seventy-two (72) hours prior to the start of such Work. Upon approval from the Engineer, a no-fee Street Closure Permit will be issued. No Street Closure, Lane Closure, Detour or other Work requiring traffic control shall commence prior to issuance of said permit.

The Contractor shall submit a daily Work schedule and traffic routing plan showing the intended construction zone signing and operations for each phase of the Work to be accomplished. The daily Work schedule and traffic routing plan shall be submitted within 10-working days after the date of the Agency’s execution of the Contract Agreement. No Work shall commence until this plan has been reviewed and approved in writing by the Engineer.

All barricading and construction signing shall be in conformance with the California MUTCD. The Contractor shall furnish and install all flagmen, lights, signs, barricades, and other safety devices and equipment required in accordance with the California MUTCD, and maintain them in new or like new condition for the duration of the construction project, unless otherwise approved by the Engineer. Additional construction signing and barricading, required in the opinion of the Engineer to protect the public, shall be immediately erected by the Contractor, at no additional cost to the Owner.

Temporary traffic channelization shall be accomplished with barricades or delineators. Temporary striping will not be allowed unless specifically permitted by the Engineer. The Contractor shall prepare any plans that may be required for temporary striping to the satisfaction of the Engineer. In no event will temporary striping be allowed on finish pavement surfaces which are to remain.

The Contractor shall schedule an employee to police the temporary delineators and barricades within the travel way every day including Saturdays, Sundays, and holidays. Any corrective Work required to be done by Agency forces shall be back charged to the Contractor and withheld from the final payment based on the actual costs, plus a 40% markup for City administration and miscellaneous costs.

The Contractor shall notify the Engineer a minimum of five (5) working days prior to closing or restricting left-turn movements. Contractor shall provide sequential arrow boards for all lane closures. A minimum of ninety-six (96) hours prior to restricting left turn movements and/or closing left-turn pockets, the Contractor shall post sign in advance of and in the area of the closure or restriction. The signs, as a minimum, shall notify the public of the date(s) of the closure and the duration.

**MODIFICATIONS TO THE STANDARD SPECIFICATIONS
“GREENBOOK” PART 6 – TEMPORARY TRAFFIC CONTROL**

Judgment as to adequate or sufficient barricading and signing shall be that which is sufficient and adequate in the opinion of the Engineer.

The Contractor shall relocate, preserve and maintain the visibility of all existing signs within the project limits which affect the flow of traffic, as directed by the Engineer. Any signs which are damaged or found to be missing during the course of construction shall be replaced by the Contractor at his expense as directed by the Engineer. All other signs that interfere with the course of Work and are not necessary for the safe flow of traffic will be removed and replaced by the Owner. Traffic control signs include Stop Signs, Speed Limit, Parking Restriction and other regulatory signs.

END OF PART 6

CHAPTER VI

MODIFICATIONS TO THE STANDARD SPECIFICATIONS

“GREENBOOK” PART 8 – LANDSCAPING AND IRRIGATION

**MODIFICATIONS TO THE STANDARD SPECIFICATIONS
“GREENBOOK” PART 8 – LANDSCAPING AND IRRIGATION**

SECTION 800 –MATERIALS

800-1 LANDSCAPE MATERIALS.

800-1.2 Soil Fertilizing and Conditioning Materials.

800-1.2.5 Mulch.

Add the following:

Hydraulic mulch, for use with Hydroseed, shall be Hydraulic Matrices (HM).

800-1.3 Seed.

Add the following:

SPECIES	COMMON NAME	PLS LBS/ACRE	MIN % GERM
Melica frutescens	Woody Melic	1.00	30
Stipa pulchra	Purple Needlegmss	4.00	30
Hordeum californicum	California Barley	2.00	35
Melica imperfecta	Coast Range Melic	2.00	30
Mimulus aurantiacus	Monkey Flower	0.25	25
Acmispon americanus	Purshings Lotus	1.00	30
Acmispon glaber	Deerweed	3.00	35
Camissonía cheiranthifolia	Beach Evening Primrose	1.00	30
Eschscholzia californica	California Poppy	2.00	40
Festuca microstachys	Small Fescue	4.00	40

All seeds shall be in conformance with the California State Seed Law of the Department of Agriculture. Each seed bag shall be delivered to the site sealed and clearly marked as to species, purity, percent germination, dealer's guarantee, and dates of test. The container shall be labeled to clearly reflect the amount of Pure Live Seed (PLS) contained. All legume seed shall be pellet inoculated. Inoculant sources shall be species specific and should be applied at a rate of 2 lb of inoculant per 100 lb seed.

SECTION 801 – INSTALLATION

801-1 GENERAL.

801-4 PLANTING.

Add the following new subsection:

801-4.10 Hydroseed Installation. Hydroseeding shall be performed by a certified hydroseeding contractor and only when weather and soil conditions are suitable, as approved by the City. Any trees, shrubs, or groundcover within the hydroseed area shall be installed prior to hydroseeding. The Contractor shall notify the City at least forty-eight (48) hours prior to the start of hydroseeding to allow the City to be present at the start of the work.

**MODIFICATIONS TO THE STANDARD SPECIFICATIONS
“GREENBOOK” PART 8 – LANDSCAPING AND IRRIGATION**

Prior to commencing hydroseeding, the Contractor shall submit a complete list of all hydroseeding materials, including seed, fertilizer, hydromulch, and any other products, for City approval. All hydroseeding materials shall be delivered to the site in unopened containers with legible identification and product labels and shall be made available for City inspection to verify compliance before hydroseeding begins.

Soil shall be prepared by disking or otherwise scarifying to provide a suitable seedbed. Prior to hydroseeding, the soil shall be moistened to a minimum depth of three (3) inches without causing erosion and shall not be surface wet at the time of the application.

Do not allow the hydroseeding slurry components to sit in the hydroseeding machine for more than two (2) hours because of possible seed destruction. If slurry components are left for more than two (2) hours in the machine, add 50% more of the originally specified seed mix to any slurry mixture that has not been applied within the two hours after mixing. Add 75% more of the original seed mix to any slurry mixture, which has not been applied eight (8) hours after mixing. All mixtures more than eight (8) hours old, must be disposed, off-site, at the Contractor's expense.

In a one step process, hydraulic seed is applied with hydraulic mulch in a hydraulic matrix. Hydraulic matrices shall have the application rate between 2,500 – 4,000 pounds per acre and shall form a uniform, absorbent, porous mulch layer. A green coloring additive shall be used in the slurry for visual inspection purposes.

Watering shall begin immediately following hydroseeding to settle the seed mixture and initiate germination. The Contractor shall provide sufficient water application to achieve successful germination and plant establishment. As a minimum watering schedule, the hydroseeded areas shall be hand-watered five (5) times at three-day intervals, or more frequently and/or for a longer duration as required, until establishment. Watering schedule frequency and duration shall be adjusted as necessary based on weather conditions, temperature, rainfall, and observed soil moisture. The soil shall be maintained in a consistently moist condition without becoming saturated or allowing ponding. The goal is to keep the soil consistently damp until the seed is well-established.

The Contractor shall monitor germination and reseed any bare or inadequately established areas within ten (10) days of notification by the City. The City shall be the sole judge of determining acceptable germination and vegetation coverage. The Contractor shall remain responsible for watering, reseeding, and maintaining the hydroseeded areas until the City approves the establishment of the plants.

END OF PART 8

CHAPTER VII
SPECIAL PROVISIONS

SPECIAL PROVISIONS

1. LOCATION OF WORK

The general locations and limits of the work are San Dieguito Dr. from Racetrack View Dr. to Oribia Rd.

2. POTHOLING

Potholing shall be the first item of work completed. Potholing shall be completed within 20-working days after Notice to Proceed. No other work shall commence until the potholing report has been submitted. The contractor shall allow the Engineer 10 working days to review the complete pothole report prior to starting any work activities.

3. UTILITY NOTIFICATIONS

The Contractor shall notify the owners of all utilities and substructures not less than 48 hours prior to starting construction. The following list of names and telephone numbers is intended for the convenience of the Contractor and is not guaranteed to be complete or correct:

AT&T Distribution	510.645.2929 800.540.8121
NextG Networks Inc.	866.639.8460 888.632.0931
City of Del Mar Public Works	Alex Panduro 858.704.3684 apanduro@delmar.ca.us
Charter Communications/Spectrum (former Time Warner Cable)	866.340.0183
MCI So. Cal. (Verizon Business)	800.289.3427
SDGE, Gas Mapping & Records	800.611.7343
SDGE, Electric Mapping & Records	800.411.7343
SDGE, Planning	877.789.9866 (Press 2,2,2) 760.476.5621
SDGE, Project Management	760.480.7603
S.C. Gas/Sempra Transmission	800.427.2000 (Commercial) 800.427.2200 (Residential)

SPECIAL PROVISIONS

Water & Sewer City of Del Mar Public Works	Alex Panduro 858.704.3684 apanduro@delmar.ca.us
Redflex Traffic System, Inc.	800.568.8405

4. AUTHORITY OF THE ENGINEER

The Public Works Director (Engineer) of the City of Del Mar, shall decide any and all questions which may arise as to the quality or acceptability of materials furnished and Work performed, as to the manner of performance and rate of progress of the Work; all questions which arise as to the acceptable fulfillment of the contract on the part of the Contractor; and all questions as to claims and compensations.

The Engineer's decision shall be final, and the Engineer shall have exclusive authority to enforce and make effective such decisions and orders as the Contractor fails to carry out promptly.

Any order given by the Engineer, not otherwise required by these Specifications will on request of the Contractor be given or confirmed by the Engineer in writing.

5. PRECONSTRUCTION MEETING

Following award of the contract but prior to commencement of Work, the Contractor shall meet with the Engineer and Agency and furnish the following items:

- A. A preliminary schedule of Work as described in Subsection 130.02(a) showing the sequence of construction of the principal items of Work. The diagram shall show the beginning and ending dates of the items of Work.
- B. A projection of monthly payments to be earned.
- C. A list of names, titles, addresses, and telephone numbers of the Contractor's responsible personnel indicating those who may be reached outside of normal working hours.
- D. Time and Material (T&M) Labor and Equipment rates.

6. REMOVAL AND DISPOSAL OF MATERIALS

All materials removed must be hauled away from the project site and legally disposed of at a materials site located outside the limits of Del Mar. The Contractor is encouraged to recycle materials whenever possible.

The Contractor shall recycle construction debris, asphalt, and concrete generated from removals required to construct the project. The Contractor shall recycle the waste material through an approved recycling plant. See section 7-16 of these the Standard Specifications for recycling requirements.

Payment for recycling of materials shall be included in the unit or lump sum prices for the various items of Work. No additional payment shall be made for recycling of materials.

7. TRAFFIC CONTROL PLANS

SPECIAL PROVISIONS

The Contractor shall refer to Part 6, Modifications to the Standard Specifications, Paragraph 600-1.1 – Traffic and Access.

- A. Contractor shall prepare traffic control plans for the project as required for safety in accordance with the Agency's traffic department and the California Manual on Uniform Traffic Control Devices for Streets and Highways, Part 6, Temporary Traffic Control dated December 2023. Traffic control requirements may be modified by the Agency or as conditions warrant. Contractor shall modify traffic control as required by Agency at no additional cost. Street closures are not allowed.
- B. Throughout each Work period, Contractor shall inspect traffic control (signs, barricades, arrow boards, and delineators) and shall maintain same in accordance with said manual. All temporary signs shall be placed on a Type 1 barricade with a flasher.

8. CONTRACTOR WORK AREA

The Contractor shall be responsible for obtaining and paying all costs in connection with any additional Work area, storage sites, or staging areas which may be required for proper completion of the Work. The Contractor is responsible for locating and securing legal storage, staging, and parking areas. The Contractor must provide a storage and staging plan to the Agency, including written permission from legal owner(s) of property/properties stating they are allowing the Contractor to use their property.

- a) Identification of project material storage location;
- b) Identification of project equipment storage location;
- c) A construction-parking plan that minimizes the effect of construction worker parking in the neighborhood and shall include an estimate of the number of workers that will be present on the site during the various phases of construction and indicate where sufficient off-street parking will be utilized and identify any locations for off-site material deliveries.
- d) Location of any temporary sanitary facilities;
- e) A note stating that "If on-street parking is utilized, a minimum street access clearance of 20ft. will be maintained";
- f) Map displaying any/all haul routes; and
- g) Contact information (phone number and Email) for the on-site supervisor(s).

It shall be understood that responsibility for protection and safekeeping of equipment and materials on or near the site will be entirely that of the Contractor and that no claim shall be made against the Agency or the Agency's authorized representatives by reason of any act. It shall be further understood that should any occasion arise necessitating access to the sites occupied by these stored material or equipment, the Engineer shall direct the Contractor owning or responsible for the stored materials and equipment to immediately move the same. No materials or equipment may be placed upon the property of the Agency other than the designated areas on the Drawings unless the Agency has agreed to the location contemplated by the Contractor to be used for storage.

No equipment, vehicles, personal vehicles, or materials may be parked or stock piled outside the Agency's easements or properties, or outside of the designated Contractor staging areas. No parking or construction staging will be allowed on surrounding streets (residential and public) or private property unless written approval is obtained from appropriate jurisdiction.

SPECIAL PROVISIONS

9. DOCUMENTATION OF EXISTING CONDITIONS PRIOR TO CONSTRUCTION

The Contractor shall perform a preconstruction survey of existing improvements along the roadway alignment and appurtenance locations to provide a record of preconstruction conditions. This survey shall include the following as a minimum:

- A. Video of existing working areas, staging and stockpiling areas.
- B. Video of construction access roads and public roads to be used by the CONTRACTOR, including all public and private streets and routes used for access to and from the Work site.
- C. Any other areas as directed by the Agency which may be disturbed or which are to be protected from the Contractor's operations.
- D. Photographs of potential "problem areas". Problem areas shall also be shown in video.
- E. Mapping of problematic areas of damaged paving (redline areas on plans).

Contractor shall notify the Agency seven calendar days in advance and coordinate the scheduling of the video so that a representative of the Agency may accompany the Contractor during the videotaping.

At the completion of the survey the Contractor shall present the Agency with a report detailing the existing conditions along the pipeline alignment and within working, staging, and stockpile areas. The report shall include the following as a minimum:

- 1. One copy of the video in color in DVD format.
- 2. One copy of each "potential problem area" photograph (4-inch by 6-inch colored photos).
- 3. Redlined plans showing areas of damaged paving or other damaged surface improvements.
- 4. Written summary of "potential problem areas" and the Contractor's recommendations to address these problem areas.

Documentation (including report) of existing conditions shall be completed within 15 days of the Notice to Proceed. The Contractor will not be allowed to begin excavation or dewatering activities until the final report has been submitted and accepted by the Agency.

10. PROTECTION OF EXISTING IMPROVEMENTS

Unless specifically noted otherwise, the Contractor shall take every precaution to protect all existing surface improvements, fencing, landscaping, irrigation, retaining walls, landscaping walls, posts, ditches, drainage facilities, curbs, gutters, pavement, trees, street lights, and all other existing improvements along the pipeline alignment or within the Contractor's working areas, staging and stockpile areas, and access routes. Any damage or disturbance to existing surface improvements that are necessary to complete the Work shall be kept to a minimum. The Contractor shall replace in like and kind all existing improvements that are damaged or disturbed during construction at Contractor's sole expense. Any replacements or repairs to damaged or disturbed improvements shall be to original conditions or better.