CONSTRUCTION PLANS

FOR

B-TAP RESERVOIR SITE IMPROVEMENT

CIP 5024-6

B-TAP RESERVOIR PROJECT SITE



B-TAP RESERVOIR PROJECT SITE

CARLSBAD, CALIFORNIA



VICINITY MAP

MELANIE BURKHOLDER - DISTRICT 1 PRIYA BHAT-PATEL - DISTRICT 3 TERESA ACOSTA - DISTRICT 4 CAROLYN LUNA - DISTRICT 2 KEITH BLACKBURN - MAYOR

SCOTT CHADWICK EXECUTIVE MANAGER

SEPTEMBER 2024

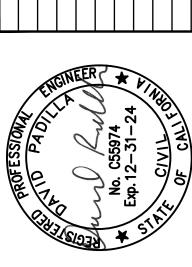
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	IMPROVEMENT PLAN FOR:						
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SHEET INDEX

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- TITLE SHEET GENERAL NOTES, LEGEND AND DETAILS B—TAP RESERVOIR SITE IMPROVEMENT PLAN B—TAP RESERVOIR SITE SURVEY AND DETAILS

REFERENCE DRAWINGS

- 933—9 CONSTRUCTION PLANS FOR TRI—AGENCIES PIPELINE TERMINAL RESERVOIR 303—2L CALAVERA HILLS— VILLAGE 'Q' DWG -. ci

- A RIGHT-OF-WAY PERMIT FROM THE CITY ENGINEER WILL BE REQUIRED FOR ANY WORK IN THE PUBLIC RIGHT OF WAY.

 2. ACCESS FOR FIRE AND OTHER EMERGENCY VEHICLES SHALL BE MAINTAINED TO THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.

 3. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.

 4. THE CONTRACTOR SHALL CONFORM TO LABOR CODE 6705 BY SUBMITTING A DETAIL PLAN SHOWING THE DESIGN OF SHORING, BRACING SLOPING OR OTHER PROVISIONS TO BE MADE OF WORKER PROTECTION FROM THE HAZARD OF CAVING GROUND DURING THE EXCAVATION OF SUCH TRENCH OR TRENCHES OR DURING THE PIPE INSTALLATION THEREIN. THIS PLAN MUST BE PREPARED FOR ALL TRENCHES FROM THE SHORING SYSTEM STANDARDS ESTABLISHED BY THE CONSTRUCTION SAFETY ORDERS, TITLE 8 CALIFORNIA ADMINISTRATIVE CODE, THE PLAN SHALL BE PREPARED BY A REGISTERED ENGINEER AT THE CONTRACTOR'S EXPENSE. A COPY OF THE OSHA EXCAVATION.

 EXCAVATION PERMIT MUST BE SUBMITTED TO THE INSPECTOR PRIOR TO EXCAVATION.

 - AREA DURING CONSTRUCTION, OPERATIONS WILL CEASE IMMEDIATELY, AND TH CONTRACTOR WILL NOTIFY THE CITY. OPERATIONS WILL NOT RESTART UNTIL THE CONTRACTOR HAS RECEIVED WRITTEN AUTHORITY FORM THE CITY TO DO
 - 9
- 6. ALL OFF—SITE HAUL ROUTES SHALL BE SUBMITTED BY THE CONTRACTOR TO THE CITY ENGINEER FOR APPROVAL TWO FULL WORKING DAYS PRIOR TO BEGINNING OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEBRIS OR DAMAGE OCCURRING ALONG THE HAUL ROUTE OR ADJACENT STREETS AS A RESULT OF THE GRADING OPERATION.

 7. THE EXISTENCE AND LOCATION OF UTILITY STRUCTURES AND FACILITIES SHOWN ON THE CONSTRUCTION PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. ATTENTION IS CALLED TO THE POSSIBLE EXISTENCE OF OTHER UTILITY FACILITIES OR STRUCTURES NOT SHOWN OR IN A LOCATION DIFFERENT FROM THAT SHOWN ON THE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN ON THE PLANS AND ANY OTHER EXISTING FACILITIES OR STRUCTURES NOT SHOWN.

AND CONNECT

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RESERVOIR

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AND REINSTALL (E) CHAIN FENCE AS NECESSARY TO CONSTRUCT IMPROVEMENTS

REMONE LINK

GUTTER.39'

MATCH

428

HO

(F) STREETLIC (PIP)

(E) WOODEN FENCE (PIP)

TUBING

(E) 6-IN PERFORATED CORRUGATED PE TUBING TO CATCH RASINI

LICE EXISTING STREET LIGHT CONDUIT AND REROUTE TO STREET LIGHT WITH NEW CONDUIT RUN BELOW CURB OUTLET (1-INCH SCH 80 WITH 10

CLEAR AND GRUB EXISTING LANDSCAPING AS NECESSARY TO INSTALL IMPROVEMENTS. STABILIZE SLOPE WITH POST CONSTRUCTION BMPS AND RESTORE PRIVATE IRRIGATION IN-KIND.

REMOVE AND DISPOSE 50 SQ FT SIDEWALK AND 30-LF CURB AND GUTTEF

(L) (M) (W)

STORM DRAIN CONSTRUCTION NOTES

REMOVE AND DISPOSE EXISTING ELECTRICAL J-BOX. INTERCEPT AND SPI

AWG) AND TYPE 3 1/2 J-BOX PER CSD GS-21 TO EXTENTS SHOWN.

CONSTRUCT TYPE-A CURB OUTLET PER SDRSD D-25A (L=8-FT).

STORM DRAIN DETAIL

SERIES 1818 OR APPROVED EQUAL AND CONNECT INTO (P) 6-IN SD AND (E) 6-INCH CORRUGATED PE DRAINAGE TUBING

CONSTRUCT 50-LF OF 6-INCH DIA. SDR 35 PVC STORM DRAIN PER CSD DS-2.

FURNISH AND INSTALL PRECAST GRATED DROP INLET, JENSEN PRECAST

 $\boxed{4} \bigcirc \bigcirc$

CONSTRUCT 30-LF OF TYPE G CURB AND GUTTER PER SDRSD G-02.

CONSTRUCT 30 SQ FT OF SIDEWALK PER SDRSD G-07, G-09, G-10 AND G-1

- SHOWN. $\dot{\infty}$
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING FACILITIES (ABOVE GROUND AND UNDER GROUND) WITHIN THE PROJECT SITE SUFFICIENTLY AHEAD OF WORK.

 THE CONTRACTOR SHALL NOTIFY AFFECTED UTILITY COMPANIES (SEE BELOW) AT LEAST 2 FULL WORKING DAYS PRIOR TO STARTING EXCAVATION OR GRADING NEAR THEIR FACILITIES AND SHALL COORDINATE THE WORK WITH A COMPANY REPRESENTATIVE.

 UNDERGROUND SERVICE ALERT 9
 - SDG&E
 AT&T
 TIME WARNER CABLE
 COX COMMUNICATIONS
 CITY OF CARLSBAD (STREETS AND STORM DRAIN)
 CITY OF CARLSBAD (SEWER, WATER & RECLAIMED WATER)
 SAW CUT ALL TRENCH EDGES IN ASPHALT AND CONCRETE SURFACES.
 - 10.

ABBREVIATIONS

SYMBOL

LEGEND DWG. NO

DESCRIPTION

DESCRIPTION	ABBREVIATION
AGGERGATE BASE	AB
APPROXIMATE	APPROX.
ASPHALT	AC
CARLSBAD MUNICIPAL WATER DISTRICT	CMWD
CHAIN LINK	CF
CITY OF CARLSBAD STANDARD DRAWING	CSD
CURB/GUTTER	9/0
EXISTING	(E)
EXISTING GRADE	E.G.
ELEVATION	EL / ELEV.
FENCE	FNC
FINISHED GRADE	FG
FLOW LINE	FL
GATE VALVE	<i>BN</i>
HIGH POINT	НР
INCH OR INCHES	IN, "
INVERT ELEVATION	IE
LINEAL FEET	LF
LOW POINT	ГР
MANUAL AIR RELEASE VALVE	MAR
NATURAL GROUND	NG
NOT TO SCALE	N. T. S.
POLYETHYLENE	PE
POLYVINYL CHLORIDE	PVC
PROPERTY LINE	PL
PROPOSED	(P)
PROTECT IN PLACE	(PIP)
REMOVE AND REPLACE	RR
RIGHT OF WAY	R/W
SAN DIEGO REGIONAL STANDARD DRAWING	SDRSD
SQUARE FEET	SQ FT
SQUARE YARDS	SY
STORM DRAIN	SD
TOP OF BERM	1/8
TYPICAL	TYP
VERTICAL	VERT

ELEV.

SDRSD G-07 TO G-11

(E) CHAIN LINK FENCELINE

(E) WOODEN FENCELINE

(E) CURB AND GUTTER

(E) GATE

(E) R/W AND PL

(E) CONTOURS

SIDEWALK

(E) TELECOMMUNICATIONS

(E) ELECTRIC

(E) STORM DRAIN

(E) MANHOLE

SDRSD G-02

SDRSD G-05

(P) TYPE A AC BERM

(P) SEAL COAT

CURB AND GUTTER

CALTRANS SECTION 68-2.02F

(P) CONVENTIONAL ASPHALT SECTION

(P) POROUS ASPHALT SECTION

(P) CLASS 2 PERMEABLE MATERIAL

(P) STORM DRAIN

(P) ELECTRICAL

(P) CURB OUTLET

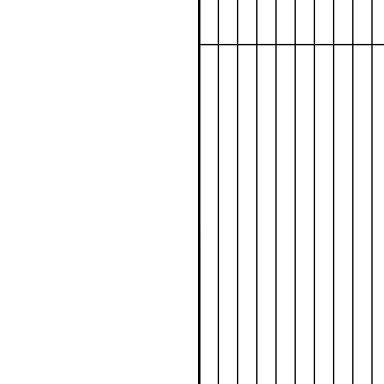
(P) DROP INLET

ELECTRIC JUNCTION BOX ADJUSTMENT TO FINAL GRADE

(P) MAR ADJUSTMENT TO FINAL GRADE

(P) GV ADJUSTMENT TO FINAL GRADE

MANHOLE FRAME AND COVER REPLACEMENT



DATE

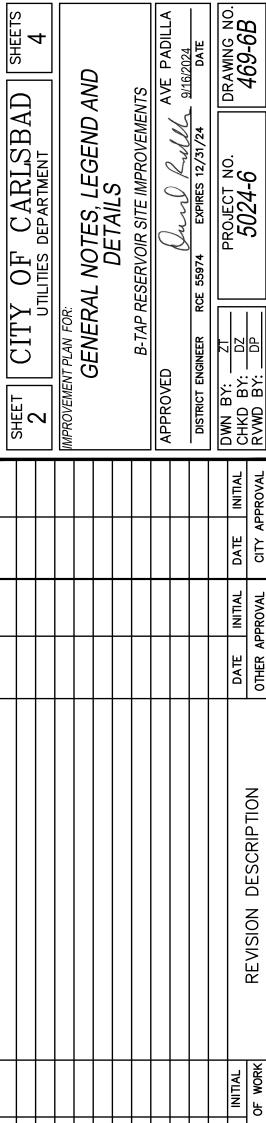
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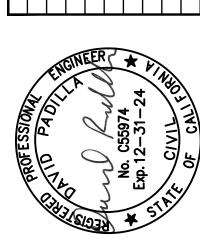
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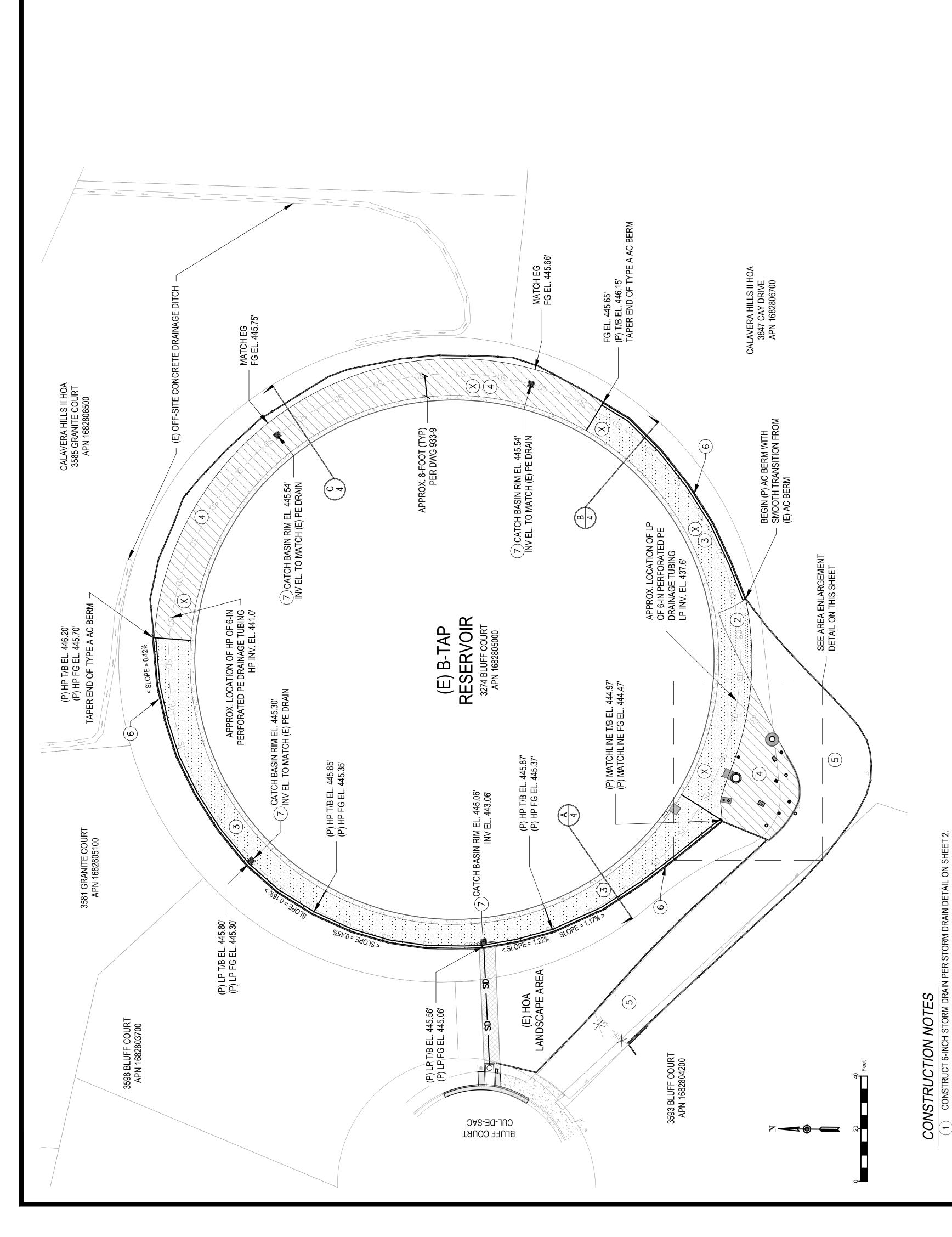


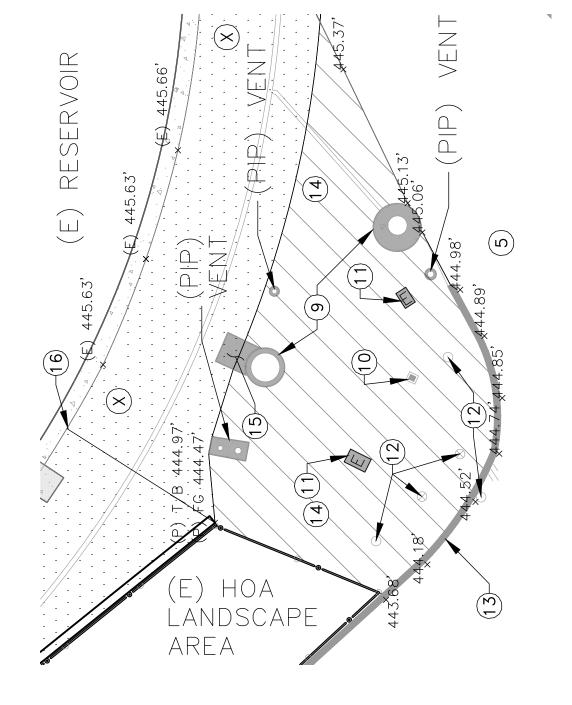


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AREA ENLARGEMENT DETAIL

SCALE: 1-IN = 10-FT

- REMOVE CONCRETE COLLARS AND INSTALL COMPOSITE 36-INCH MANHOLE FRAME AND COVER. COMPOSITE ACCESS PRODUCTS (CAP) OR APPROVED EQUAL ADJUST TO FINAL GRADE (TYP 2). 6
 - REMOVE (E) 6X6 CATCH BASIN AND SEAL (E) DRAINAGE PIPE WITH CONCRETE. REPAIR AND REGRADE SURFACE PRIOR TO (10
 - INSTALLATION OF PERVIOUS ASPHALT.
- REMOVE AND REPLACE VALVE BOX PER PER CMWD DWG W-23 AND ADJUST TO FINAL GRADE (TYP 5 2X GV AND 3X MAR LIDS). ADJUST ELECTRICAL J-BOX TO FINAL GRADE (TYP 2).
 - REMOVE 40-LF OF (E) AC BERM. (1) (2) (2)**4**
- CONSTRUCT 4-IN THICK PERVIOUS AC IN VALVE/VAULT AREA TO EXTENTS SHOWN (1,000 SQFT) SLOPING FOR POSITIVE DRAINAGE.

REMOVE EXISTING CONCRETE ACCESS PAD FROM MANHOLE PRIOR TO ASPHALT PLACEMENT.

(1) (1)

GRADE TRANSITION LINE FROM TYPICAL ACCESS ROAD SECTION A TO SECTION B ON SHEET 4. INSTALL SMOOTH TRANSITION FOR POSITIVE DRAINAGE AWAY FROM TANK FOOTING.

	DATE	
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MATERIAL PER SECTION 68-2.02F AND TYPICAL ACCESS ROAD SECTION C ON SHEET 4. PROVIDE TWO LAYERS SEAL COAT OVER (E) 530 SY ASPHALT DRIVEWAY. SEAL ALL CRACKS PRIOR TO APPLICATION. CONSTRUCT 4,020 SQ FT 3-INCH THICK PERVIOUS ASPHALT CONCRETE OVER 4-IN CALTRANS CLASS2 PERMEABLE

DEMOLISH AND REMOVE 200 SQ FT OF EXISTING ASPHALT ACCESS ROAD AND REPLACE WITH IMPERVIOUS AC PAVEMENT PER NOTE 3 BELOW.

CONSTRUCT 4,990 SQ FT OF 4-INCH C2 PG 64-10 AC PER TYPICAL ACCESS ROAD SECTIONS A AND B ON SHEET 4.

- CONSTRUCT 400-LF OF TYPE A AC BERM PER SDRSD G-05.
- SEE TYPICAL ACCESS ROAD SECTIONS B AND C ON SHEET 4. SLOPE AT 2% FOR APPROX. 8-FEET FROM TANK FOOTING TO (E) PERFORATED PE DRAINAGE TUBING FG EL. 445.54' +/-, REMIANING SURFACE
- (-) (0) (0) (0) (0) (0) (0)
- FURNISH AND INSTALL 18-IN PRECAST DROP INLET WITH HS-20 RATED TRAFFIC GRATE, JENSEN SERIES 1818 OR APPROVED EQUAL, CONNECT TO (E) CORRUGATED PE DRAIN TUBING.
 - SLOPED TO MATCH (E) GRADE OR (E) AC.

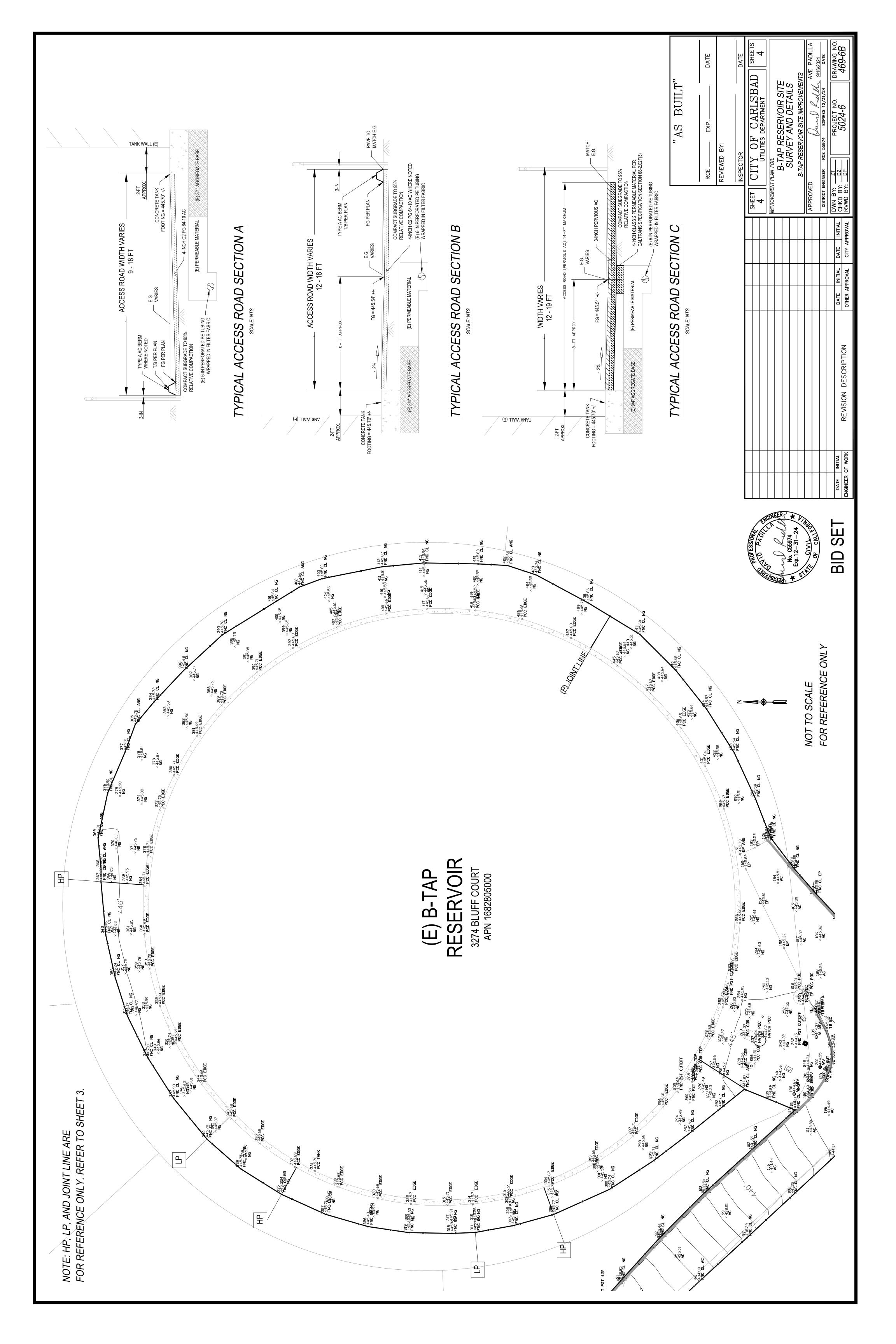
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CARLSBAD MUNICIPAL WATER DISTRICT

San Diego County

California

CONTRACT DOCUMENTS, GENERAL PROVISIONS, SUPPLEMENTAL PROVISIONS, AND TECHNICAL SPECIFICATIONS

FOR

WATER RESERVOIR IMPROVEMENT PROGRAM

B-TAP RESERVOIR SITE IMPROVEMENTS

PROJECT NO. 5024-6

BID NO. PWS24-XXXXUTIL



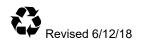
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Contract No. 5024-6

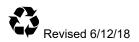
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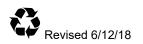


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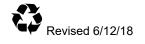
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CARLSBAD MUNICIPAL WATER DISTRICT, CALIFORNIA NOTICE INVITING BIDS

Until 11 a.m. on October 1, 2024, the Carlsbad Municipal Water District shall accept bids via electronic format via the City of Carlsbad Electronic Bidding Site, PlanetBids, which may be accessed at https://www.carlsbadca.gov/departments/finance/contracting-purchasing, for performing the work as follows: Provide all labor, materials, tools, equipment, and services to construct a new storm drain and associated catch basins; earthwork and grading; pervious and conventional asphalt concrete paving; adjust valve boxes and electrical boxes to final grade; pavement seal coat; and remove and replace asphalt berms, manhole frame and covers, sidewalk, curb and gutter, street light conduit and electrical junction box.

WATER RESERVOIR IMPROVEMENT PROGAM B-TAP RESERVOIR SITE IMPROVEMENTS PROJECT NO. 5024-6 PWS24-XXXXUTIL

ELECTRONIC FORMAT RECEIPT AND OPENING OF BIDS: Bids will be received in electronic format (eBids) EXCLUSIVELY at the City of Carlsbad's electronic bidding (eBidding) site, at: Contracting & Purchasing | Carlsbad, CA (carlsbadca.gov) and are due by the date and time shown on the cover of this solicitation.

BIDDERS MUST BE PRE-REGISTERED with the City's bidding system and possess a system-assigned Digital ID in order to submit an electronic bid.

The City's electronic bidding (eBidding) system will automatically track information submitted to the site including IP addresses, browsers being used and the URLs from which information was submitted. In addition, the City's bidding system will keep a history of every login instance including the time of login, and other information about the user's computer configuration such as the operating system, browser type, version, and more. Because of these security features, Bidders who disable their browsers' cookies will not be able to log in and use the City's bidding system.

The City's electronic bidding system is responsible for bid tabulations. Upon the bidder's or proposer's entry of their bid, the system will ensure that all required fields are entered. The system will not accept a bid for which any required information is missing. This includes all necessary pricing, subcontractor listing(s) and any other essential documentation and supporting materials and forms requested or contained in these solicitation documents.

BIDS REMAIN SEALED UNTIL DUE DATE AND TIME

eBids are transmitted into the City's bidding system via hypertext transfer protocol secure (https) mechanism using SSL 128-256-bit security certificates issued from Verisign/Thawte which encrypts data being transferred from client to server. Bids submitted prior to the Due Date and Time are not available for review by anyone other than the submitter, who will have until the Due Date and Time to change, rescind or retrieve its bid should they desire to do so.

BIDS MUST BE SUBMITTED BY DUE DATE AND TIME

Once the deadline is reached, no further submissions are accepted into the system. Once the Due Date and Time has passed, bidders, proposers, the general public, and City staff are able



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to immediately see the results online. City staff may then begin reviewing the submissions for responsiveness, compliance and other issues.

RECAPITULATION OF THE WORK

Bids shall not contain any recapitulation of the Work. Conditional Bids may be rejected as being non-responsive. Alternative proposals will not be considered unless called for.

BIDS MAY BE WITHDRAWN by the Bidder prior to, but not after, the time set as Due Date and Time.

Important Note: Submission of the electronic bid into the system may not be instantaneous. Due to the speed and capabilities of the user's internet service provider (ISP), bandwidth, computer hardware and other variables, it may take time for the bidder's submission to upload and be received by the City's eBidding system. It is the bidder's sole responsibility to ensure their bids are received on time by the City's eBidding system. The City of Carlsbad is not responsible for bids that do not arrive by the Due Date and Time.

ELECTRONIC SUBMISSIONS CARRY FULL FORCE AND EFFECT

The Bidder, by submitting their electronic proposal, agrees to and certifies under penalty of perjury under the laws of the State of California, that the certification, forms and affidavits submitted as part of this proposal are true and correct. The bidder, by submitting its electronic bid, acknowledges that doing so carries the same force and full legal effect as a paper submission with a longhand (wet) signature. By submitting an electronic bid, the bidder certifies that the bidder has thoroughly examined and understands the entire Contract Documents (which consist of the plans and specifications, drawings, forms, affidavits and the solicitation documents), and that by submitting the eBid as its bid proposal, the bidder acknowledges, agrees to and is bound by the entire Contract Documents, including any addenda issued thereto, and incorporated by reference in the Contract Documents.

BIDS ARE PUBLIC RECORDS

Upon receipt by the City, bids shall become public records subject to public disclosure. It is the responsibility of the Bidder to clearly identify any confidential, proprietary, trade secret or otherwise legally privileged information contained within the proposal's General references to sections of the California Public Records Act (PRA) will not suffice. If the Bidder does not provide applicable case law that clearly establishes that the requested information is exempt from the disclosure requirements of the PRA, the City shall be free to release the information when required in accordance with the PRA, pursuant to any other applicable law, or by order of any court or government agency, and the Bidder agrees to hold the City harmless for any such release of this information.

INSTRUCTIONS TO BIDDERS AND BID REQUIREMENTS

There are multiple bid schedules for the Work of this Contract and the Bidder shall complete all Bid Schedules for the bid to be deemed responsive. The Agency shall determine the low Bid as described in the Contractor's Proposal form.

This bid and the terms of the Contract Documents and General Provisions constitute an irrevocable offer that shall remain valid and in full force for a period of 90 days and such additional time as may be mutually agreed upon by the Carlsbad Municipal Water District and the Bidder.

This bid and the terms of the Contract Documents and General Provisions constitute an

Contract No. 5024-6 Page 7 of 130

irrevocable offer that shall remain valid and in full force for a period of 90 days and such additional time as may be mutually agreed upon by Carlsbad Municipal Water District and the Bidder.

No bid will be received unless it is made on a proposal form furnished by the Purchasing Department. Each bid must be accompanied by security in a form and amount required by law. The bidder's security of the second and third next lowest responsive bidders may be withheld until the Contract has been fully executed. The security submitted by all other unsuccessful bidders shall be returned to them, or deemed void, within ten (10) days after the Contract is awarded. Pursuant to the provisions of law (Public Contract Code section 10263), appropriate securities may be substituted for any obligation required by this notice or for any monies withheld by the District to ensure performance under this Contract. Section 10263 of the Public Contract Code requires monies or securities to be deposited with the District or a state or federally chartered bank in California as the escrow agent. The escrow agent shall maintain insurance to cover negligent acts and omissions of the agent in connection with the handling of retentions under this section in an amount not less than \$100,000 per contract.

The Carlsbad Municipal Water District may disqualify a contractor or subcontractor from participating in bidding when a contractor or subcontractor has been debarred by the City of Carlsbad or another jurisdiction in the State of California as an irresponsible bidder.

The work shall be performed in strict conformity with the plans, provisions, and specifications as approved by the City Council of the City of Carlsbad on file with the City Clerk's Office. The specifications for the work include City of Carlsbad Engineering Standards and the <u>Standard Specifications for Public Works Construction</u> all hereinafter designated "SSPWC", as amended. Specification Reference is hereby made to the plans and specifications for full particulars and description of the work. The General Provisions (Part 1) to the SSPWC do not apply.

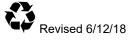
The Carlsbad Municipal Water District encourages the participation of minority and womenowned businesses.

The Carlsbad Municipal Water District encourages all bidders, suppliers, manufacturers, fabricators and contractors to utilize recycled and recyclable materials when available, appropriate and approved by the Engineer.

BID DOCUMENTS

The bid documents comprise the following documents which must be completed and properly executed including notarization, where indicated.

- 1. Contractor's Proposal
- 2. Bidder's Bond (at time of Bid submit PDF copy via PlanetBids / All Bidders). Bid Bond (Original) within two (2) business days of bid Opening / three (3) Apparent Low Bidders.
- 3. Noncollusion Declaration
- 4. Designation of Subcontractor and Amount of Subcontractor's Bid
- 5. Bidder's Statement of Technical Ability and Experience
- 6. Acknowledgement of Addendum(a)
- 7. Certificate of Insurance. The riders covering the City, its officials, employees and volunteers may be omitted at the time of bid submittal but shall be provided by the Bidder prior to award of this contract.
- 8. Bidder's Statement Re Debarment
- 9. Bidder's Disclosure of Discipline Record



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- 10. CARB Fleet Compliance Certification (Appendix A)
- 11. Escrow Agreement for Security Deposits (optional, must be completed if the Bidder wishes to use the Escrow Agreement for Security)

BIDDER'S GUARANTEE OF GOOD FAITH (BID SECURITY)

At the time of bid submission, bidders must upload d submit an electronic PDF copy of the aforementioned bid security. Whether in the form of a cashier's check, a properly certified check or an approved corporate surety bond payable to the City of Carlsbad, the bid security must be uploaded to the Carlsbad Municipal Water District's eBidding system. Within two (2) business days after the bid opening date, the first three (3) apparent low bidders must provide CMWD with the original bid security.

Failure to submit the electronic version of the bid security at time of bid submission shall cause the bid to be rejected and deemed **non-responsive**. Only the three (3) apparent low bidders are required to submit original bid security to CMWD within two (2) business days after bid opening date. Failure to provide the original within two (2) business days may deem the bidder **non-responsive**.

ENGINEER'S ESTIMATE

All bids will be compared on the basis of the Engineer's Estimate. The estimated quantities are approximate and serve solely as a basis for the comparison of bids. The Engineer's Estimate is \$210,000.

TIME OF COMPLETION

The Contractor shall complete the Work within the time set in the contract as defined in the General Provisions Section 6-7.

SPECIALTY CONTRACTORS: ACCEPTABLE LICENSE TYPES

Except as provided herein a bid submitted to the City by a Contractor who is not licensed as a contractor pursuant to the Business and Professions Code shall be considered nonresponsive and shall be rejected by the City. In all contracts where federal funds are involved, no bid submitted shall be invalidated by the failure of the bidder to be licensed in accordance with California law. Where federal funds are involved the contractor shall be properly licensed at the time the contract is awarded. In all other cases the contractor shall state their license number, expiration date and classification in the proposal, under penalty of perjury. This invitation to bid does **not** use federal funds. The following classifications are acceptable for this contract:

A - General Engineering.

ESCROW AGREEMENT

If the Contractor intends to utilize the escrow agreement included in the contract documents in lieu of the usual 5% retention from each payment, these documents must be completed and submitted with the signed contract. The escrow agreement may not be substituted at a later date.

OBTAINING PLANS AND SPECIFICATIONS

Sets of plans, various supplemental provisions, and Contract documents may be obtained from the City of Carlsbad website at https://www.carlsbadca.gov/departments/finance/contracting-purchasing Paper copies will not be sold.



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INTENT OF PLANS AND SPECIFICATIONS

Any prospective bidder who is in doubt as to the intended meaning of any part of the drawings, specifications or other contract documents, or finds discrepancies in or omissions from the drawings and specifications may submit to the Engineer a written request for clarification or correction. Any response will be made only by a written addendum duly issued by the Engineer a copy of which will be mailed or delivered to each person receiving a set of the contract documents. No oral response will be made to such inquiry. Prior to the award of the contract, no addition to, modification of or interpretation of any provision in the contract documents will be given by any agent, employee or contractor of the Carlsbad Municipal Water District as hereinbefore specified. No bidder may rely on directions given by any agent, employee or contractor of the Carlsbad Municipal Water District except as hereinbefore specified.

BIDDER'S INQUIRIES

Questions on the bid documents during the bid period shall be submitted in writing, via the eBidding website.

Questions shall be definite and certain and shall reference applicable drawing sheets, notes, details or specification sheets.

The deadline to submit questions is **September 20, 2024, at 5 p.m.** No questions will be entertained after that date.

The answers to questions submitted during the bidding period will be published in an addendum and provided to those bidding on the project no later than **September 24, 2024**.

REJECTION OF BIDS

The City of Carlsbad reserves the right to reject any or all bids and to waive any minor irregularity or informality in such bids.

PREVAILING WAGE TO BE PAID

The general prevailing rate of wages for each craft or type of worker needed to execute the Contract shall be those as determined by the Director of Industrial Relations pursuant to the sections 1770, 1773, and 1773.1 of the Labor Code. Pursuant to section 1773.2 of the Labor Code, a current copy of applicable wage rates is on file in the Office of the City Engineer. The Contractor to whom the Contract is awarded shall not pay less than the said specified prevailing rates of wages to all workers employed by him or her in the execution of the Contract.

The Prime Contractor shall be responsible for insuring compliance with provisions of section 1777.5 of the Labor Code and section 4100 et seq. of the Public Contracts Code, "Subletting and Subcontracting Fair Practices Act." The City Engineer is the City's "duly authorized officer" for the purposes of section 4107 and 4107.5.

The provisions of Part 7, Chapter 1, of the Labor Code commencing with section 1720 shall apply to the Contract for work.

A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code or engage in the performance of any contract for public work, unless currently registered and qualified to perform public work



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pursuant to Section 1725.5. This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

The Prime Contractor and all subcontractors shall comply with Section 1776 of the Labor Code, which generally requires keeping accurate payroll records, verifying and certifying payroll records, and making them available for inspection. Contractor shall require all subcontractors to comply with Section 1776.

CALIFORNIA AIR RESOURCES BOARD (CARB) ADVANCED CLEAN FLEETS REGULATIONS

Contractor's vehicles with a gross vehicle weight rating greater than 8,500 lbs. and light-duty package delivery vehicles operated in California may be subject to the California Air Resources Board (CARB) Advanced Clean Fleets regulations. Such vehicles may therefore be subject to requirements to reduce emissions of air pollutants. For more information, please see Appendix A and visit the CARB Advanced Clean Fleets webpage at https://ww2.arb.ca.gov/our-work/programs/advanced-clean-fleets.

MANDATORY PRE BID MEETING

A <u>mandatory</u> pre-bid meeting will be held on **September 18, 2024 at 10:00 AM**. The project site is located within a secured area that is not publicly accessible. The pre-bid meeting will be the only opportunity for prospective bidders to visit the site.

Attendees will assemble at the cul-de-sac of Bluff Court as shown in Appendix B.

Attendees will be required to sign-in on the meeting attendance log upon arriving at the water reservoir property. A signature from at least one staff member representing the bidder's company is required to provide proof of attendance. Bids will not be accepted from any bidder who does not have a company representative in attendance at the mandatory pre-bid meeting.

UNIT PRICES AND COMPUTATION OF BIDS

All bids are to be computed on the basis of the given estimated quantities of work, as indicated in this proposal, times the unit price as submitted by the bidder.

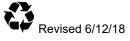
ADDENDA

Bidders are advised to verify the issuance of all addenda and receipt thereof one day prior to bidding. Submission of bids without acknowledgment of addenda may be cause of rejection of bid.

BOND AND INSURANCE REQUIREMENTS

The Contractor shall provide bonds to secure faithful performance and warranty of the work in an amount equal to one hundred percent (100%) of the Contract price on this project. The Contractor shall provide bonds to secure payment of laborers and materials suppliers, in an amount equal to one hundred percent (100%) of the total amount payable by the terms of the contract. These bonds shall be kept in full force and effect during the course of this project and shall extend in full force and effect and be retained by CMWD until they are released as stated in the General Provisions section of this contract. All bonds are to be placed with a surety insurance carrier admitted and authorized to transact the business of insurance in California and whose assets exceed their liabilities in an amount equal to or in excess of the amount of the bond. The bonds are to be accompanied by the following documents:

1) An original, or a certified copy, of the unrevoked appointment, power of attorney, by laws, or other instrument entitling or authorizing the person who executed the bond to do so.



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2) A certified copy of the certificate of authority of the insurer issued by the insurance commissioner.

If the bid is accepted, CMWD may require copies of the insurer's most recent annual statement and quarterly statement filed with the Department of Insurance pursuant to Article 10 (commencing with section 900) of Chapter 1 of Part 2 of Division 1 of the Insurance Code, within 10 calendar days of the insurer's receipt of a request to submit the statements.

Insurance is to be placed with insurers that:

- 1. Have a rating in the most recent Best's Key Rating Guide of at least A-:VII
- 2. Are admitted and authorized to transact the business of insurance in the State of California by the Insurance Commissioner.

Auto policies offered to meet the specification of this contract must:

- 1. Meet the conditions stated above for all insurance companies.
- 2. Cover <u>any vehicle</u> used in the performance of the contract, used onsite or offsite, whether owned, non-owned or hired, and whether scheduled or non-scheduled.

Workers' compensation insurance required under this contract must be offered by a company meeting the above standards with the exception that the Best's rating condition is waived. CMWD does accept policies issued by the State Compensation Fund meeting the requirement for workers' compensation insurance.

The Contractor shall be required to maintain insurance as specified in the Contract. Any additional cost of said insurance shall be included in the bid price.

The award of the contract by CMWD is contingent upon the Contractor submitting the required bonds and insurance, as described in the contract, within twenty days of bid opening. If the Contractor fails to comply with these requirements, CMWD may award the contract to the second or third lowest bidder and the bid security of the lowest bidder may be forfeited.

BUSINESS LICENSE

The prime contractor and all subcontractors are required to have and maintain a valid City of Carlsbad Business License for the duration of the contract.

Approved by the by the Board of Directors of the Carlsbad Municipal Water District, California,

by Resolution No. 2024-XXX, adopted of	on the <mark>18th day of August 2024</mark> .
Date	Graham Jordan, Deputy Clerk



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CARLSBAD MUNICIPAL WATER DISTRICT

WATER RESERVOIR IMPROVEMENT PROGRAM B-TAP RESERVOIR SITE IMPROVEMENTS PROJECT NO. 5024-6

CONTRACTOR'S PROPOSAL

Board of Directors Carlsbad Municipal Water District 1200 Carlsbad Village Drive Carlsbad, California 92008

The undersigned declares he/she has carefully examined the location of the work, read the Notice Inviting Bids, examined the Plans, Specifications, General Provisions, Contract Documents, and addenda thereto, and hereby proposes to furnish all labor, materials, equipment, transportation, and services required to do all the work to complete Contract No. 5024-6 in accordance with the Plans, Specifications, General Provisions, Contract Documents, and addenda thereto and that he/she will take in full payment therefore the following unit prices for each item complete, to wit (refer to Section 9-4 for bid item descriptions):

SCHEDULE A

Item				Unit	Total
No.	Item Description	Unit	Quantity	Price	Amount
A-1	Mobilization (not to exceed 10% of Total Bid Price)	LS	1		
A-2	Tier 1 SWPPP Preparation, Implementation and Maintenance	LS	1		
A-3	Clear, Grub and Restore Slope	LS	1		
A-4	Remove and Replace Curb and Gutter	LF	30		
A-5	Construct Curb Outlet, Type A, SDRSD D-25A	LS	1		
A-6	Remove and Replace Street Light Junction Box and Associated Conduit	LS	1		
A-7	Remove Sidewalk	SF	50		
A-8	Replace Sidewalk	SF	30		
A-9	Construct 6-inch PVC Storm Drain	LF	50		
A-10	Construct Drainage Catch Basin, 18"x18"	EA	4		
A-11	Remove Existing Catch Basin	LS	1		
A-12	Roadway Excavation	CY	170		
A-13	Furnish and Install Caltrans Class 2 Permeable Material	Ton	95		



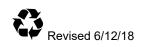
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A-14	Remove Asphalt Concrete Berm	LF	40	
A-15	Construct Asphalt Concrete Paving, C2 PG64-10	Ton	130	
A-16	Construct Porous Asphalt Paving	Ton	120	
A-17	Construct AC Berm, Type A, SDRSD G-05	LF	400	
A-18	Adjust Valve and Electrical Junction Boxes to Final Grade	EA	7	
A-19	Modify Manhole Lid	EA	2	
A-20	Seal Coat Existing AC Pavement and Berms	SY	530	

Total amount of bid (in figures) for Schedule "A": \$
Total amount of bid (in words) for Schedule "A":
Duiss (s) vives above one fine for 00 days often the date of hid on oning
Price(s) given above are firm for 90 days after the date of bid opening.
Addendum(a) No(s) has/have been received and is/are included in thi proposal.
The Undersigned has carefully checked all of the above figures and understands that th District will not be responsible for any error or omission on the part of the Undersigned i preparing this bid.
The Undersigned agrees that in case of default in executing the required Contract wit necessary bonds and insurance policies within twenty (20) days from the date of award contract by the Board of Directors of the Carlsbad Municipal Water District, the District manadministratively authorize award of the contract to the second or third lowest bidder and the bisecurity of the lowest bidder may be forfeited.
The Undersigned bidder declares, under penalty of perjury, that the undersigned is licensed to business or act in the capacity of a contractor within the State of California, validly license under license number, classification whice expires on, and Department of Industrial Relations PWG registration number which expires on
and that this statement is true and correct and has the legal effect of an affidavit.

A bid submitted to the District by a Contractor who is not licensed as a contractor pursuant to the Business and Professions Code shall be considered nonresponsive and shall be rejected by the District § 7028.15(e). In all contracts where federal funds are involved, no bid submitted shall be invalidated by the failure of the bidder to be licensed in accordance with California law. However, at the time the contract is <u>awarded</u>, the contractor shall be properly licensed.

The Undersigned bidder hereby represents as follows:



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- 1. That no Board member, officer agent, or employee of the City of Carlsbad is personally interested, directly or indirectly, in this Contract, or the compensation to be paid hereunder; that no representation, oral or in writing, of the Board of Directors, its officers, agents, or employees has inducted him/her to enter into this Contract, excepting only those contained in this form of Contract and the papers made a part hereof by its terms; and
- 2. That this bid is made without connection with any person, firm, or corporation making a bid for the same work, and is in all respects fair and without collusion or fraud.

Accompanying this proposal is	(Cash,	Certified	Check
Bond or Cashier's Check) for ten percent (10%) of the amount bid.			

The Undersigned is aware of the provisions of section 3700 of the Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code and agrees to comply with such provisions before commencing the performance of the work of this Contract and continue to comply until the contract is complete.

The Undersigned is aware of the provisions of the Labor Code, Part 7, Chapter 1, Article 2, relative to the general prevailing rate of wages for each craft or type of worker needed to execute the Contract and agrees to comply with its provisions.

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IF A SOLE OWNER OR SOLE CONTRACTOR SIGN HERE:

Name under which business is conducted
2) Signature (given and surname) of proprietor
3) Place of Business(Street and Number) City and State
4) Zip Code Telephone No
5) E-Mail
F A PARTNERSHIP, SIGN HERE:
Name under which business is conducted
2) Signature (given and surname and character of partner) (Note: Signature must be made by a general partne
3) Place of Business(Street and Number)
City and State
4) Zip Code Telephone No
5) F-Mail

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IF A CORPORATION, SIGN HERE:	
(1) Name under which business is conducted	
(2)	
(2)(Signature)	
(Title)	
Impress Corporate	Seal here
(3) Incorporated under the laws of the State of	
(4) Place of Business (Street and Number)	
(Street and Number) City and State	
(5) Zip Code Telephone No	
(6) E-Mail	
NOTARIAL ACKNOWLEDGMENT OF EXECUTION BY ALL SIGNATORIES M ATTACHED	UST BE
List below names of president, vice president, secretary and assistant secretary corporation; if a partnership, list names of all general partners, and managing partners	



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BID SECURITY FORM

(Check to Accompany Bid)

WATER RESERVOIR IMPROVEMENT PROGAM B-TAP RESERVOIR SITE IMPROVEMENTS PROJECT NO. 5024-6

(NOTE: The following form shall be used if check accompanies bid.)

Accompanying this proposal is a *Certified *Ca MUNICIPAL WATER DISTRICT, in the sum of	shier's check payable to the order of CARLSBAD
dollars (\$), this amount be bid. The proceeds of this check shall become shall be accepted by the District through actio and the undersigned shall fail to execute a Warranty and Payment Bonds and proof of otherwise, the check shall be returned to the unbecome the property of the District if the undersigned shall be returned to the unbecome the property of the District if the undersigned shall be returned to the unbecome the property of the District if the undersigned shall be returned to the unbecome the property of the District if the undersigned shall be returned to the unbecome the property of the District if the undersigned shall be returned to the unbecome the property of the District if the undersigned shall be returned to the unbecome the property of the District if the undersigned shall be returned to the unbecome the property of the District if the undersigned shall be returned to the unbecome the property of the District if the undersigned shall be returned to the unbecome the property of the District if the undersigned shall be returned to the unbecome the property of the District if the undersigned shall be returned to the unbecome the property of the District if the undersigned shall be returned to the unbecome the property of the District if the undersigned shall be returned to the unbecome the property of the District if the undersigned shall be returned to the unbecome the property of the District if the undersigned shall be returned to the unbecome the property of the District if the undersigned shall be returned to the unbecome the property of the District if the undersigned shall be returned to the unbecome the unbecome the property of the District if the undersigned shall be returned to the unbecome the u	ting ten percent (10%) of the total amount of the the property of the District provided this proposal on of its legally constituted contracting authorities contract and furnish the required Performance, insurance coverage within the stipulated time; indersigned. The proceeds of this check shall also ersigned shall withdraw his or her bid within the or the opening thereof, unless otherwise required
	BIDDER

(NOTE: If the Bidder desires to use a bond instead of check, the Bid Bond form on the following pages shall be executed--the sum of this bond shall be not less than ten percent (10%) of the total amount of the bid.)

Revised 6/12/18

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^{*}Delete the inapplicable word.

BIDDER'S BOND TO ACCOMPANY PROPOSAL

WATER RESERVOIR IMPROVEMENT PROGAM B-TAP RESERVOIR SITE IMPROVEMENTS PROJECT NO. 5024-6

KNOW ALL PERSONS BY THESE PRESENTS: ___, as Principal, and ______, as Surety are held and firmly bound unto the Carlsbad Municipal Water District, California, in an amount as follows: (must be at least ten percent (10%) of the bid amount) for which payment, well and truly made, we bind ourselves, our heirs, executors and administrators, successors or assigns, jointly and severally, firmly by these presents. THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH that if the proposal of the above-bounden Principal for: WATER RESERVOIR IMPROVEMENT PROGAM **B-TAP RESERVOIR SITE IMPROVEMENTS PROJECT NO. 5024-6** in the City of Carlsbad, is accepted by the Board of Directors, and if the Principal shall duly enter into and execute a Contract including required bonds and insurance policies within twenty (20) days from the date of award of Contract by the Board of Directors of the Carlsbad Municipal Water District of the City of Carlsbad, being duly notified of said award, then this obligation shall become null and void; otherwise, it shall be and remain in full force and effect, and the amount specified herein shall be forfeited to the said District. In the event Principal executed this bond as an individual, it is agreed that the death of Principal shall not exonerate the Surety from its obligations under this bond. SIGNED AND SEALED, this ______ day of ______, 20_____ ____(SEAL) ____(Surety) By: _____(Signature) (Signature) (Print Name/Title) (Print Name/Title) (SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY - ATTACH ATTORNEY-IN-FACT CERTIFICATE) APPROVED AS TO FORM: CINDIE K. McMAHON General Counsel



Assistant General Counsel

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GUIDE FOR COMPLETING THE "DESIGNATION OF SUBCONTRACTORS" FORM

REFERENCES Prior to preparation of the following "Subcontractor Disclosure Form" Bidders are urged to review the definitions in section 1-2 of the General Provisions to this Contract, especially, "Bid", "Bidder", "Contract", "Contractor", "Contract Price", "Contract Unit Price", "Engineer", "Own Organization", "Subcontractor", and "Work". Bidders are further urged to review sections 2-3 SUBCONTRACTS of the General Provisions.

CAUTIONS This form will be used by the Agency to determine the percentage of work that the Bidder proposes to perform. Bidders are cautioned that failure to provide complete and correct information may result in rejection of the bid as non-responsive. Any bid that proposes performance of more than 50 percent of the work by subcontractors or otherwise to be performed by forces other than the Bidder's own organization will be rejected as non-responsive. Specialty items of work that may be so designated by the Engineer on the "Contractor's Proposal" are not included in computing the percentage of work proposed to be performed by the Bidder.

INSTRUCTIONS The Bidder shall set forth the name and location of business of each and every subcontractor whom the Bidder proposes to perform work or labor or render service in or about the work or improvement, and every subcontractor licensed as a contractor by the State of California whom the Bidder proposes to specially fabricate and install any portion of the work or improvement according to detailed drawings contained in the plans and specifications in excess of one-half of one percent (0.5%) of the Bidder's total bid or, in the case of bids or offers for the construction of streets and highways, including bridges, in excess of one-half of one percent (0.5%) or ten thousand dollars (\$10,000) whichever is greater. Said name(s) and location(s) of business of subcontractor(s) shall be set forth and included as an integral part of the bid offer.

The Designation of Subcontractors form must be submitted as a part of the Bidder's sealed bid. Failure to provide complete and correct information may result in rejection of the bid as non-responsive.

Suppliers of materials from sources outside the limits of work are not subcontractors. The value of materials and transport of materials from sources outside the limits of work, as shown on the plans, shall be assigned to the Contractor or the Subcontractor as the case may be, that the Bidder proposes as installer of said materials. The value of material incorporated in any Subcontractor-installed bid item that is supplied by the Bidder shall be included as a part of the work that the Bidder proposes to be performed by the Subcontractor installing said item.

When a Subcontractor has a Carlsbad business license, the number must be entered on the proper form. If the Subcontractor does not have a valid business license, enter "NONE" in the appropriate space.

When the Bidder proposes using a Subcontractor to construct or install less than 100 percent of a bid item, the Bidder shall attach an explanation sheet to the Designation of Subcontractor form. The explanation sheet shall clearly apprise the District of the specific facts that show the Bidder proposes to perform no less than fifty percent (50%) of the work with its own forces.



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Determination of the subcontract amounts for purposes of award of the contract shall be determined by the Board of Directors in conformance with the provisions of the contract documents and the various supplemental provisions. The decision of the Board of Directors shall be final.

Contractor is prohibited from performing any work on this project with a subcontractor who is ineligible to perform work on a public works project pursuant to Labor Code Sections 1771.1 or 1777.7.

Bidders shall make any additional copies of the disclosure forms as may be necessary to provide the required information. The page number and total number of additional form pages shall be entered in the location provided on each type of form so duplicated.

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DESIGNATION OF SUBCONTRACTOR AND AMOUNT OF SUBCONTRACTOR'S BID ITEMS

(To Accompany Proposal)

B-TAP RESERVOIR SITE IMPROVEMENTS PROJECT NO. 5024-6

The Bidder certifies that it has used the sub-bid of the following listed subcontractors in preparing this bid for the Work and that the listed subcontractors will be used to perform the portions of the Work as designated in this list in accordance with applicable provisions of the specifications and section 4100 et seq. of the Public Contract Code, "Subletting and Subcontracting Fair Practices Act." The Bidder further certifies that no additional subcontractor will be allowed to perform any portion of the Work in excess of one-half of one percent (0.5%) of the Bidder's total bid, or in the case of bids or offers for construction of streets and highways, including bridges, in excess of one-half of one percent (0.5%) or ten thousand dollars (\$10,000), whichever is greater, and that no changes in the subcontractors listed work will be made except upon the prior approval of the Agency.

SUBCONTRACTOR'S BID ITEMS

SUBCONTRACTOR'S BID ITEMS					
Portion of Work	Subcontractor Name and Location of Business	Phone No. and Email Address	DIR Registration No.	Subcontractor's License No. and Classification*	Amount of Work by Subcontractor in Dollars*
		_			

_	_		
Page	of	pages of this Subcontractor	Designation form
. ugc		pages of this caboonitation	Dooignation form

^{*} Pursuant to section 4104 (a)(3)(A) California Public Contract Code, receipt of the information preceded by an asterisk may be submitted by the Bidder up to 24 hours after the deadline for submitting bids contained in the "Notice Inviting Bids."



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BIDDER'S STATEMENT OF TECHNICAL ABILITY AND EXPERIENCE

(To Accompany Proposal)

WATER RESERVOIR IMPROVEMENT PROGAM B-TAP RESERVOIR SITE IMPROVEMENTS PROJECT NO. 5024-6

The Bidder is required to state what work of a similar character to that included in the proposed Contract he/she has successfully performed and give references, with telephone numbers, which will enable the City to judge his/her responsibility, experience and skill. An attachment can be used.

The bidder shall demonstrate at least five years of experience successfully completing general civil site improvements similar in scope to the Work of the proposed Contract. Bidder must also submit the qualifications of its Representatives in accordance with Section 7-6. The proposal shall be deemed non-responsive if the required technical ability and experience for the Bidder or its representative is not demonstrated.

Date Contract Completed	Name and Address of the Employer	Name and Phone No. of Person to Contract	Type of Work	Amount of Contract

BIDDER'S CERTIFICATE OF INSURANCE FOR GENERAL LIABILITY, EMPLOYERS' LIABILITY, AUTOMOTIVE LIABILITY AND WORKERS' COMPENSATION

(To Accompany Proposal)

WATER RESERVOIR IMPROVEMENT PROGAM B-TAP RESERVOIR SITE IMPROVEMENTS PROJECT NO. 5024-6

As a required part of the Bidder's proposal the Bidder must attach either of the following to this page.

1) Certificates of insurance showing conformance with the requirements herein for each of:

٠,	•	
		Comprehensive General Liability
		Automobile Liability
		Workers Compensation
		Employer's Liability
2)	upon pay	t with an insurance carrier's notarized signature stating that the carrier can, and ment of fees and/or premiums by the Bidder, will issue to the Bidder Policies of for Comprehensive General Liability, Automobile Liability, Workers Compensation

All certificates of insurance and statements of willingness to issue insurance for auto policies offered to meet the specification of this contract must:

insurance to the Agency showing conformance with the requirements herein.

and Employer's Liability in conformance with the requirements herein and Certificates of

- 1) Meet the conditions stated in The Notice Inviting Bids and the General Provisions for this project for each insurance company that the Contractor proposes.
- 2) Cover <u>any vehicle</u> used in the performance of the contract, used onsite or offsite, whether owned, non-owned or hired, and whether scheduled or non-scheduled.

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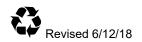
Contract No. 5024-6 Page 24 of 130

BIDDER'S STATEMENT RE DEBARMENT

(To Accompany Proposal)

WATER RESERVOIR IMPROVEMENT PROGAM B-TAP RESERVOIR SITE IMPROVEMENTS PROJECT NO. 5024-6

Have you or any of your subcontractors evaluate another jurisdiction in the State of California	ver been debarred as an irresponsible bidder by a?
yes no	
	agency(ies) and what was/were the period(s) of of this page to accommodate more than two
party debarred	party debarred
agency	agency
period of debarment	period of debarment
BY CONTRACTOR:	
(name of Contractor) By:	_
(sign here)	_
(print name/title)	_
Page of page	es of this Re Debarment form



BIDDER'S DISCLOSURE OF DISCIPLINE RECORD

(To Accompany Proposal)

WATER RESERVOIR IMPROVEMENT PROGAM B-TAP RESERVOIR SITE IMPROVEMENTS PROJECT NO. 5024-6

Contractors are required by law to be licensed and regulated by the Contractors' State License Board which has jurisdiction to investigate complaints against contractors if a complaint regarding a patent act or omission is filed within four years of the date of the alleged violation. A complaint regarding a latent act or omission pertaining to structural defects must be filed within 10 years of the date of the alleged violation. Any questions concerning a contractor may be referred to the Registrar, Contractors' State License Board, P.O. Box 26000, Sacramento, California 95826.

1)	Have you ever had your contractor's license suspended or revoked by the California Contractors' State License Board two or more times within an eight year period?				
	yes no				
2)	Has the suspension or revocation of your contractor's license ever been stayed?				
	yes no				
3)	Have any subcontractors that you propose to perform any portion of the Work ever had their contractor's license suspended or revoked by the California Contractors' State License Board two or more times within an eight year period?				
	yes no				
4)	Has the suspension or revocation of the license of any subcontractor's that you propose to perform any portion of the Work ever been stayed?				
	yes no				
5)	If the answer to either of 1. or 3. above is yes fully identify, in each and every case, the party disciplined, the date of and violation that the disciplinary action pertains to, describe the nature of the violation and the disciplinary action taken therefore.				
(If	needed attach additional sheets to provide full disclosure.)				
(11	needed attach additional sheets to provide full disclosure.)				
	Page of pages of this Disclosure of Discipline form				



Contract No. 5024-6 Page 26 of 130

BIDDER'S DISCLOSURE OF DISCIPLINE RECORD

(CONTINUED)

(To Accompany Proposal)

WATER RESERVOIR IMPROVEMENT PROGAM B-TAP RESERVOIR SITE IMPROVEMENTS PROJECT NO. 5024-6

6) If the answer to either of 2, or 4, above is yes fully identify, in each and every case, the party whose discipline was stayed, the date of the violation that the disciplinary action pertains to, describe the nature of the violation and the condition (if any) upon which the disciplinary action was stayed.
(If needed attach additional sheets to provide full disclosure.)
BY CONTRACTOR:
(name of Contractor)
By:
(sign here)
(print name/title)
Page of pages of this Disclosure of Discipling form



Contract No. 5024-6

NONCOLLUSION DECLARATION TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

PUBLIC CONTRACT CODE SECTION 7106

WATER RESERVOIR IMPROVEMENT PROGAM B-TAP RESERVOIR SITE IMPROVEMENTS PROJECT NO. 5024-6

I am the	of	, the party making the foregoing bid.
company, associated sham. The bidder false or sham be agreed with any bidder has not inconference with overhead, profit, contained in the price or any breathereto, to any coto any member of shame in the shame of the t	ciation, organization or has not directly or id. The bidder has bidder or anyone anyone to fix the or cost element of bid are true. The biakdown thereof, or teorporation, partners	of, or on behalf of, any undisclosed person, partnership, or corporation. The bid is genuine and not collusive or indirectly induced or solicited any other bidder to put in not directly or indirectly colluded, conspired, connived, colluded to put in a sham bid, or to refrain from bidding. The otly or indirectly, sought by agreement, communication, or bid price of the bidder or any other bidder, or to fix and the bid price, or of that of any other bidder. All statement doer has not, directly or indirectly, submitted his or her bid he contents thereof, or divulged information or data relative thip, company, association, organization, bid depository, of effectuate a collusive or sham bid, and has not paid, and with purpose.
joint venture, lim	nited liability compa he or she has full	on on behalf of a bidder that is a corporation, partnership ny, limited liability partnership, or any other entity, hereb power to execute, and does execute, this declaration o
true and correct		nder the laws of the State of California that the foregoing i aration is executed on [state].
Signature of Bidder		



The undersigned declares:

Contract No. 5024-6 Page 28 of 130

CONTRACT PUBLIC WORKS

This agreement is made this	day of			, 2024
by and between the Carlsbad Muni	icipal Water District	of the City of	f Carlsbad,	California, a
municipal corporation, (hereinafter ca	alled "District"), and			
whose principal place of business is				
(hereinafter called "Contractor").				

District and Contractor agree as follows:

1. Description of Work. Contractor shall perform all work specified in the Contract documents for:

WATER RESERVOIR IMPROVEMENT PROGAM B-TAP RESERVOIR SITE IMPROVEMENTS PROJECT NO. 5024-6

(hereinafter called "project")

- **2. Provisions of Labor and Materials.** Contractor shall provide all labor, materials, tools, equipment, and personnel to perform the work specified by the Contract Documents.
- 3. Contract Documents. The Contract Documents consist of this Contract, Notice Inviting Bids, Contractor's Proposal, Bidder's Bond, Noncollusion Declaration, Designation of Subcontractors, Technical Ability and Experience, Bidder's Statement Re Debarment, Escrow Agreement, Release Form, the Plans and Specifications, the General Provisions, addendum(s) to said Plans and Specifications and General Provisions, and all proper amendments and changes made thereto in accordance with this Contract or the Plans and Specifications, and all bonds for the project; all of which are incorporated herein by this reference.

Contractor, her/his subcontractors, and materials suppliers shall provide and install the work as indicated, specified, and implied by the Contract Documents. Any items of work not indicated or specified, but which are essential to the completion of the work, shall be provided at the Contractor's expense to fulfill the intent of said documents. In all instances through the life of the Contract, the District will be the interpreter of the intent of the Contract Documents, and the District's decision relative to said intent will be final and binding. Failure of the Contractor to apprise subcontractors and materials suppliers of this condition of the Contract will not relieve responsibility of compliance.

- **4. Payment.** For all compensation for Contractor's performance of work under this Contract, District shall make payment to the Contractor per section 9-3 PAYMENT of the General Provisions section of this contract. The Engineer will close the estimate of work completed for progress payments on the last working day of each month. The District shall withhold retention as required by Public Contract Code Section 9203.
- **5. Independent Investigation.** Contractor has made an independent investigation of the jobsite, the soil conditions at the jobsite, and all other conditions that might affect the progress of the work and is aware of those conditions. The Contract price includes payment for all work that may be done by Contractor, whether anticipated or not, in order to overcome underground

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conditions. Any information that may have been furnished to Contractor by District about underground conditions or other job conditions is for Contractor's convenience only, and District does not warrant that the conditions are as thus indicated. Contractor is satisfied with all job conditions, including underground conditions and has not relied on information furnished by District.

- **6. Hazardous Waste or Other Unusual Conditions.** If the contract involves digging trenches or other excavations that extend deeper than four feet below the surface Contractor shall promptly, and before the following conditions are disturbed, notify District, in writing, of any:
- **A.** Hazardous Waste. Material that 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.
- **B. Differing Conditions.** Subsurface or latent physical conditions at the site differing from those indicated.
- **C. Unknown Physical Conditions.** Unknown physical conditions at the site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the contract.

District 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 contractor's costs of, or the time required for, performance of any part of the work shall issue a change order under the procedures described in this contract.

In the event that a dispute arises between District and 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, 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. 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.

- 7. Immigration Reform and Control Act. Contractor certifies it is aware of the requirements of the Immigration Reform and Control Act of 1986 (8 USC sections 1101-1525) and has complied and will comply with these requirements, including, but not limited to, verifying the eligibility for employment of all agents, employees, subcontractors, and consultants that are included in this Contract.
- 8. Prevailing Wage. Pursuant to the California Labor Code, the director of the Department of Industrial Relations has determined the general prevailing rate of per diem wages in accordance with California Labor Code, section 1773 and a copy of a schedule of said general prevailing wage rates is on file in the office of the City Engineer and is incorporated by reference herein. Pursuant to California Labor Code, section 1775, Contractor shall pay prevailing wages. Contractor shall post copies of all applicable prevailing wages on the job site. Contractor shall comply with California Labor Code, section 1776, which generally requires keeping accurate payroll records, verifying and certifying payroll records, and making them available for inspection. Contractor shall require all subcontractors to comply with Section 1776.

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9. Indemnification. Contractor shall assume the defense of, pay all expenses of defense, and indemnify and hold harmless the District, and its officers and employees, from all claims, loss, damage, injury and liability of every kind, nature and description, directly or indirectly arising from or in connection with the performance of the Contract or work; or from any failure or alleged failure of Contractor to comply with any applicable law, rules or regulations including those relating to safety and health; and from any and all claims, loss, damages, injury and liability, howsoever the same may be caused, resulting directly or indirectly from the nature of the work covered by the Contract, except for loss or damage caused by the sole or active negligence or willful misconduct of the District. The expenses of defense include all costs and expenses including attorneys' fees for litigation, arbitration, or other dispute resolution method.

Contractor shall also defend and indemnify the District against any challenges to the award of the contract to Contractor, and Contractor will pay all costs, including defense costs for the District. Defense costs include the cost of separate counsel for District, if District requests separate counsel.

Contractor shall also defend and indemnify the District against any challenges to the award of the contract to Contractor, arising in whole or in part from alleged inaccuracies or misrepresentation by the Contractor, whether intentional or otherwise, and Contractor will pay all costs, including defense costs for the District. Defense costs include the cost of separate counsel for District, if District requests separate counsel.

- **10. Insurance.** Contractor shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damage to property which may arise from or in connection with the performance of the work hereunder by the Contractor, his or her agents, representatives, employees or subcontractors. Said insurance shall meet the City of Carlsbad's policy for insurance as stated in <u>City Council Policy # 70</u>.
- **(A)** Coverages and Limits Contractor shall maintain the types of coverages and minimum limits indicted herein:
- a. **Commercial General Liability (GLC) Insurance**: Insurance written on an "occurrence" basis, including products-completed operations, personal & advertising injury, with limits no less than **\$2,000,000** per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit.
- b. **Business Automobile Liability Insurance**: \$2,000,000 combined single limit per accident for bodily injury and property damage. In addition, the auto policy must cover any vehicle used in the performance of the contract, used onsite or offsite, whether owned, non-owned or hired, and whether scheduled or non-scheduled.
- c. **Workers' Compensation and Employers' Liability Insurance:** Workers' compensation limits as required by the Labor Code of the State of California and Employers' Liability limits of \$1,000,000 per incident. Workers' compensation offered by the State Compensation Insurance Fund is acceptable to the District.
- **(B)** Additional Provisions: Contractor shall ensure that the policies of insurance required under this agreement with the exception of Workers' Compensation and Business Automobile Liability Insurance contain, or are endorsed to contain, the following provisions.

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- a. The District, its officials, employees and volunteers are to be covered as additional insured as respects: liability arising out of activities performed by or on behalf of the Contractor; products and completed operations of the contractor; premises owned, leased, hired or borrowed by the contractor. The coverage shall contain no special limitations on the scope of protection afforded to the District, its officials, employees or volunteers. All additional insured endorsements must be evidenced using separate documents attached to the certificate of insurance; one for each company affording general liability, and employers' liability coverage.
- b. The Contractor's insurance coverage shall be primary insurance as respects the District, its officials, employees and volunteers. Any insurance or self-insurance maintained by the District, its officials, employees or volunteers shall be in excess of the contractor's insurance and shall not contribute with it.
- c. Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the District, its officials, employees or volunteers.
- d. Coverage shall state that the contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
- **(C) Notice of Cancellation.** Each insurance policy required by this agreement shall be endorsed to state that coverage shall not be nonrenewed, suspended, voided, canceled, or reduced in coverage or limits except after ten (10) days' prior written notice has been sent to the District by certified mail, return receipt requested.
- **(D)** Deductibles and Self-Insured Retention (S.I.R.) Levels. Any deductibles or self-insured retention levels must be declared to and approved by the District. At the option of the District, either: the insurer shall reduce or eliminate such deductibles or self-insured retention levels as respects the District, its officials and employees; or the contractor shall procure a bond guaranteeing payment of losses and related investigation, claim administration and defense expenses.
- **(E) Waiver of Subrogation.** All policies of insurance required under this agreement shall contain a waiver of all rights of subrogation the insurer may have or may acquire against the District or any of its officials or employees.
- **(F) Subcontractors.** Contractor shall include all subcontractors as insured under its policies or shall furnish separate certificates and endorsements for each subcontractor. Coverages for subcontractors shall be subject to all of the requirements stated herein.
- **(G)** Acceptability of Insurers. Insurance is to be placed with insurers that have a rating in Best's Key Rating Guide of at least A-:VII. Insurers must also be authorized to transact the business of insurance by the State of California Insurance Commissioner as admitted carriers as evidenced by a listing in the official publication of the Department of Insurance of the State of California and/or under the standards specified by City Council Policy # 70.
- **(H) Verification of Coverage.** Contractor shall furnish the District with certificates of insurance and original endorsements affecting coverage required by this clause. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates and endorsements are to be in forms

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approved by the District and are to be received and approved by the District before the Contract is executed by the District.

- (I) Cost of Insurance. The Cost of all insurance required under this agreement shall be included in the Contractor's bid.
- 11. Claims and Lawsuits. All claims by Contractor shall be resolved in accordance with Public Contract Code section 9204, which is incorporated by reference. A copy of Section 9204 is included in Section 3 of the General Provisions. In addition, all claims by Contractor for \$375,000 or less shall be resolved in accordance with the provisions in the Public Contract Code, Division 2, Part 3, Chapter 1, Article 1.5 (commencing with section 20104) which are incorporated by reference. A copy of Article 1.5 is included in Section 3 of the General Provisions. In the event of a conflict between Section 9204 and Article 1.5, Section 9204 shall apply. Notwithstanding the provisions of this section of the contract, all claims shall comply with the Government Tort Claim Act (section 900 et seq., of the California Government Code) for any claim or cause of action for money or damages prior to filing any lawsuit for breach of this agreement.
- (A) Assertion of Claims. Contractor hereby agrees that any contract claim submitted to the District must be asserted as part of the contract process as set forth in this agreement and not in anticipation of litigation or in conjunction with litigation.
- **(B) False Claims.** Contractor acknowledges that if a false claim is submitted to the District, it may be considered fraud and the Contractor may be subject to criminal prosecution.
- **(C) Government Code.** Contractor acknowledges that California Government Code sections 12650 et seq., the False Claims Act, provides for civil penalties where a person knowingly submits a false claim to a public entity. These provisions include false claims made with deliberate ignorance of the false information or in reckless disregard of the truth or falsity of the information.
- **(D) Penalty Recovery.** If the Carlsbad Municipal Water District seeks to recover penalties pursuant to the False Claims Act, it is entitled to recover its litigation costs, including attorney's fees.
- **(E) Debarment for False Claims.** Contractor hereby acknowledges that the filing of a false claim may subject the Contractor to an administrative debarment proceeding wherein the Contractor may be prevented from further bidding on public contracts for a period of up to five years.
- **(F) Carlsbad Municipal Code.** The provisions of Carlsbad Municipal Code sections 3.32.025, 3.32.026, 3.32.027 and 3.32.028 pertaining to false claims are incorporated herein by reference.
- **(G) Debarment from Other Jurisdictions.** Contractor hereby acknowledges that debarment by another jurisdiction is grounds for the Board of Directors of the Carlsbad Municipal Water District of the City of Carlsbad to disqualify the Contractor or subcontractor from participating in future contract bidding.

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(H) Jurisdiction. Contractor agrees and hereby stipulates that the proper venue and jurisdiction for resolution of any disputes between the parties arising out of this agreement is San Diego County, California.

I have read and understand all provisions of Section 11 above.	init	ini
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- **12. Maintenance of Records.** Contractor shall maintain and make available at no cost to the District, upon request, records in accordance with sections 1776 and 1812 of Part 7, Chapter 1, Article 2, of the Labor Code. If the Contractor does not maintain the records at Contractor's principal place of business as specified above, Contractor shall so inform the District by certified letter accompanying the return of this Contract. Contractor shall notify the District by certified mail of any change of address of such records.
- **13. Labor Code Provisions.** The provisions of Part 7, Chapter 1, commencing with section 1720 of the Labor Code are incorporated herein by reference.
- **14. Security.** Securities in the form of cash, cashier's check, or certified check may be substituted for any monies withheld by the District to secure performance of this contract for any obligation established by this contract. Any other security that is mutually agreed to by the Contractor and the District may be substituted for monies withheld to ensure performance under this Contract.
- 15. Unfair Business Practices. In entering into a public works contract or a subcontract to supply goods, services, or materials pursuant to a public works contract, the contractor or subcontractor offers and agrees to assign to the awarding body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 (commencing with Section 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works contract or the subcontract. This assignment shall be made and become effective at the time the awarding body tenders final payment to the contractor, without further acknowledgment by the parties.
- 16. Provisions Required by Law Deemed Inserted. Each and every provision of law and clause required by law to be inserted in this Contract shall be deemed to be inserted herein and included herein, and if, through mistake or otherwise, any such provision is not inserted, or is not correctly inserted, then upon application of either party, the Contract shall forthwith be physically amended to make such insertion or correction.
- **17. Additional Provisions.** Any additional provisions of this agreement are set forth in the "General Provisions" or "Supplemental Provisions" attached hereto and made a part hereof.

[signatures on the following page]

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NOTARIAL ACKNOWLEDGMENT OF EXECUTION BY ALL SIGNATORIES MUST BE ATTACHED

(CORPORATE SEAL)	
CONTRACTOR: (name of Contractor)	CARLSBAD MUNICIPAL WATER DISTRICT a municipal corporation of the State of California
(name or contractor)	Ву:
By: (sign here)	By:KEITH BLACKBURN, President
	ATTEST:
(print name and title)	
By:(sign here)	SHERRY FREISINGER, Secretary
(print name and title)	
	assistant secretary must sign for corporations. If attach a resolution certified by the secretary or appowering that officer to bind the corporation.
APPROVED AS TO FORM:	
CINDIE K. McMAHON General Counsel	
Bv:	

Assistant General Counsel

Contract No. 5024-6 Page 35 of 130

LABOR AND MATERIALS BOND

WHEREAS, the Board of Directors of the Carlsbad Municipal Water District located in the State of California has awarded to ______ (hereinafter designated as the "Principal"), a Contract for:

WATER RESERVOIR IMPROVEMENT PROGAM B-TAP RESERVOIR SITE IMPROVEMENTS PROJECT NO. 5024-6

in the City of Carlsbad, in strict conformity with the drawings and specifications, and other Contract Documents now on file in the Office of the Secretary of the Carlsbad Municipal Water District and all of which are incorporated herein by this reference.

WHEREAS, Principal has executed or is about to execute said Contract and the terms thereof require the furnishing of a bond, providing that if Principal or any of their subcontractors shall fail to pay for any materials, provisions, provender or other supplies or teams used in, upon or about the performance of the work agreed to be done, or for any work or labor done thereon of any kind, the Surety on this bond will pay the same to the extent hereinafter set forth.

NOW, THEREFORE, WE,	
as Principal, (hereinafter designated as	s the "Contractor"), and
	as Surety, are held firmly bound unto the Carlsbac
Municipal Water District in the sum of _	
	Dollars (\$)
said sum being an amount equal to: (One hundred percent (100%) of the total amount payable
under the terms of the contract by the	Carlsbad Municipal Water District, and for which paymen
well and truly to be made we bin	d ourselves, our heirs, executors and administrators
successors, or assigns, jointly and sev	erally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that if the Contractor or his/her subcontractors fail to pay for any materials, provisions, provender, supplies, or teams used in, upon, for, or about the performance of the work contracted to be done, or for any other work or labor thereon of any kind, consistent with California Civil Code section 9100, or for amounts due under the Unemployment Insurance Code with respect to the work or labor performed under this Contract, or for any amounts required to be deducted, withheld, and paid over to the Employment Development Department from the wages of employees of the contractor and subcontractors pursuant to section 13020 of the Unemployment Insurance Code with respect to the work and labor, that the Surety will pay for the same, and, also, in case suit is brought upon the bond, reasonable attorney's fees, to be fixed by the court consistent with California Civil Code section 9554.

This bond shall inure to the benefit of any of the persons named in California Civil Code section 9100, so as to give a right of action to those persons or their assigns in any suit brought upon the bond.

Surety stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract, or to the work to be performed hereunder or the specifications accompanying the same shall affect its obligations on this bond, and it does hereby waive notice

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of any change, extension of time, alterations or addition to the terms of the contract or to the work or to the specifications.

In the event that Contractor is an individual, it is agreed that the death of any such Contractor shall not exonerate the Surety from its obligations under this bond.

SIGNED AND SEALED, this	day of	, 20
(Principal)	(SEAL) (Surety)	(SEAL)
Ву:	By:	
(Signature)	(Signatu	ıre)
(Print Name & Title)	(Print Nan	ne & Title)
(SEAL AND NOTARIAL ACKNOWLEDGEMENT	OF SURETY – ATTACH ATTORNEY-IN-F	FACT CERTIFICATE)
APPROVED AS TO FORM:		
CINDIE K. McMAHON General Counsel		
Ву:		
Assistant General Counsel		

Contract No. 5024-6 Page 37 of 130

FAITHFUL PERFORMANCE/WARRANTY BOND

WHEREAS, the Board of Directors of the Carlsbad Municipal Water District located in the State of California has awarded to _____ (hereinafter designated as the "Principal"), a Contract for:

WATER RESERVOIR IMPROVEMENT PROGAM B-TAP RESERVOIR SITE IMPROVEMENTS PROJECT NO. 5024-6

in the City of Carlsbad, in strict conformity with the contract, the drawings and specifications, and other Contract Documents now on file in the Office of the Secretary of the Carlsbad Municipal Water District, all of which are incorporated herein by this reference.

WHEREAS, Principal has executed or is about to execute said Contract and the terms thereof require the furnishing of a bond for the faithful performance and warranty of said Contract;

NOW, THEREFORE, WE,	
as Principal, (hereinafter designated as the	"Contractor"), and
	as Surety, are held firmly bound unto the Carlsbac
Municipal Water District in the sum of	-
	Dollars (\$)
said sum being an amount equal to: One h	nundred percent (100%) of the total amount payable

said sum being an amount equal to: One hundred percent (100%) of the total amount payable under the terms of the contract by the Carlsbad Municipal Water District, and for which payment well and truly to be made we bind ourselves, our heirs, executors and administrators, successors, or assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH that if the above bounden Contractor, their heirs, executors, administrators, successors or assigns, shall in all things stand to and abide by, and well and truly keep and perform the covenants, conditions, and agreements in the Contract and any alteration thereof made as therein provided on their part, to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall indemnify and save harmless the Carlsbad Municipal Water District, its officers, employees and agents, as therein stipulated, then this obligation shall become null and void; otherwise it shall remain in full force and effect.

As a part of the obligation secured hereby and in addition to the face amount specified therefore, there shall be included costs and reasonable expenses and fees, including reasonable attorney's fees, incurred by the District in successfully enforcing such obligation, all to be taxed as costs and included in any judgment rendered.

Surety stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract, or to the work to be performed there under or the specifications accompanying the same shall affect its obligations on this bond, and it does hereby waive notice of any change, extension of time, alterations or addition to the terms of the contract or to the work or to the specifications.



Contract No. 5024-6 Page 38 of 130

In the event that Contractor is an individual, is shall not exonerate the Surety from its obligation			Contractor
SIGNED AND SEALED, this	_day of		, 20
(SEAL) (Principal)		(Surety)	_(SEAL)
By:(Signature)	Ву:	(Signature)	
(Print Name & Title)		(Print Name & Title)	
(SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SU	RETY – ATTACH A	ATTORNEY-IN-FACT CERTIFI	CATE)
APPROVED AS TO FORM:			
CINDIE K. McMAHON General Counsel			
By:Assistant General Counsel			

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OPTIONAL ESCROW AGREEMENT FOR SECURITY DEPOSITS IN LIEU OF RETENTION

This Escrow Agreement is made and entered into by and between the Ca Water District whose address is 5950 El Camino Real, Carlsbad, California, 9	•
called "District" andwhose address is	hereinafter
called "Contractor" and	whose
address iscalled "Escrow Agent."	hereinafter

For the consideration hereinafter set forth, the District, Contractor and Escrow Agent agree as follows:

1. Pursuant to section 22300 of the Public Contract Code of the State of California, the Contractor has the option to deposit securities with the Escrow Agent as a substitute for retention earnings required to be withheld by the District pursuant to the Construction Contract entered into between the City and Contractor for

WATER RESERVOIR IMPROVEMENT PROGAM B-TAP RESERVOIR SITE IMPROVEMENTS PROJECT NO. 5024-6

in the amount of	dated	(hereinafter referred
to as the "Contract"). Alternatively, on writ	ten request of the Cor	ntractor, the District shall make
payments of the retention earnings directly	to the Escrow Agent.	When the Contractor deposits
the securities as a substitute for Contract	earnings, the Escrow	Agent shall notify the District
within 10 days of the deposit. The market	value of the securities	at the time of the substitution
shall be a least equal to the cash amount	t then required to be v	vithheld as retention under the
terms of the contract between the District a	and Contractor. Securit	ies shall be held in the name of
the District and shall designate the Contract	ctor as the beneficial ov	wner.

- 2. The District shall make progress payments to the Contractor for such funds which otherwise would be withheld from progress payments pursuant to the Contract provisions, provided that the Escrow Agent holds securities in the form and amount specified above.
- 3. When the District makes payment of retentions earned directly to the Escrow Agent, the Escrow Agent shall hold them for the benefit of the Contractor until such time as the escrow created under this contract is terminated. The Contractor may direct the investment of the payments into securities. All terms and conditions of this agreement and the rights and responsibilities of the parties shall be equally applicable and binding when the District pays the Escrow Agent directly.
- 4. The Contractor shall be responsible for paying all fees for the expenses incurred by the Escrow Agent in administering the Escrow Account and all expenses of the District. These expenses and payment terms shall be determined by the District, Contractor and Escrow Agent.
- 5. The interest earned on the securities or the money market accounts held in escrow and all interest earned on that interest shall be for the sole account of Contractor and shall be

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subject to withdrawal by Contractor at any time and from time to time without notice to the District.

- 6. Contractor shall have the right to withdraw all or any part of the principal in the Escrow Account only by written notice to Escrow Agent accompanied by written authorization from District to the Escrow Agent that District consents to the withdrawal of the amount sought to be withdrawn by Contractor.
- 7. The District shall have a right to draw upon the securities in the event of default by the Contractor. Upon seven days' written notice to the Escrow Agent from the District of the default, the Escrow Agent shall immediately convert the securities to cash and shall distribute the cash as instructed by the District.
- 8. Upon receipt of written notification from the City certifying that the Contract is final and complete and that the Contractor has complied with all requirements and procedures applicable to the Contract, the Escrow Agent shall release to Contractor all securities and interest on deposit less escrow fees and charges of the Escrow Account. The escrow shall be closed immediately upon disbursement of all moneys and securities on deposit and payments of fees and charges.
- 9. The Escrow Agent shall rely on the written notifications from the District and the Contractor pursuant to sections (1) to (8), inclusive, of this agreement and the District and Contractor shall hold Escrow Agent harmless from Escrow Agent's release, conversion and disbursement of the securities and interest as set forth above.
- 10. The names of the persons who are authorized to give written notices or to receive written notice on behalf of the District and on behalf of Contractor in connection with the foregoing, and exemplars of their respective signatures are as follows:

For District:	Title FINANCE DIRECTOR
	Name
	Signature
	Address 1635 Faraday Avenue, Carlsbad, CA 92008
For Contractor:	Title
	Name
	Signature
	Address
For Escrow Agent:	Title
	Name
	Signature
	Address



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At the time the Escrow Account is opened, the City and Contractor shall deliver to the Escrow Agent a fully executed counterpart of this Agreement.

IN WITNESS WHEREOF, the parties have executed this Agreement by their proper officers on the date first set forth above.

For District:	TitlePRESIDENT
	Name
	Signature
	Address <u>1200 Carlsbad Village Drive, Carlsbad, CA</u> <u>92008</u>
For Contractor:	Title
	Name
	Signature
	Address
For Foreign Agents	Title
For Escrow Agent:	Title
	Name
	Signature
	Address

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GENERAL PROVISIONS FOR WATER RESERVOIR IMPROVEMENT PROGRAM B-TAP RESERVOIR SITE IMPROVEMENTS

CONTRACT NO. 5024-6

CARLSBAD MUNICIPAL WATER DISTRICT

BIDDERS ARE ADVISED THAT THIS SECTION REPLACES PART 1, GENERAL PROVISIONS, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

SECTION 1 -- TERMS, DEFINITIONS, ABBREVIATIONS, AND SYMBOLS

- **1-1 TERMS**. Unless otherwise stated, the words *directed, required, permitted, ordered, instructed, designated, considered necessary, prescribed, approved, acceptable, satisfactory,* or words of like meaning, refer to actions, expressions, and prerogatives of the Engineer.
- **1-1.1 Reference to Drawings.** Where words "shown", "indicated", "detailed", "noted", "scheduled", or words of similar import are used, it shall be understood that reference is made to the plans accompanying these provisions, unless stated otherwise.
- **1-1.2 Directions.** Where words "directed", "designated", "selected", or words of similar import are used, it shall be understood that the direction, designation or selection of the Engineer is intended, unless stated otherwise. The word "required" and words of similar import shall be understood to mean "as required to properly complete the work as required and as approved by the Engineer," unless stated otherwise.
- **1-1.3** Equals and Approvals. Where the words "equal", "approved equal", "equivalent", and such words of similar import are used, it shall be understood such words are followed by the expression "in the opinion of the Engineer", unless otherwise stated. Where the words "approved", "approval", "acceptance", or words of similar import are used, it shall be understood that the approval, acceptance, or similar import of the Engineer is intended.
- **1-1.4 Perform.** The word "perform" shall be understood to mean that the Contractor, at its expense, shall perform all operations, labor, tools and equipment, and further, including the furnishing and installing of materials that are indicated, specified or required to mean that the Contractor, at its expense, shall furnish and install the work, complete and in-place and ready to use, including furnishing of necessary labor, materials, tools, equipment, and transportation.
- **1-2 DEFINITIONS**. The following words, or groups of words, shall be exclusively defined by the definitions assigned to them herein.

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Addendum – Written or graphic instrument issued prior to the opening of Bids which clarifies, corrects, or changes the bidding or Contract Documents. The term Addendum shall include bulletins and all other types of written notices issued to potential bidders prior to opening of Bids.

Agency – The City of Carlsbad, California and/or the Carlsbad Municipal Water District.

Agreement – See Contract.

Assessment Act Contract – A Contract financed by special assessments authorized under a State Act or procedural ordinance of a City or County.

Average Sound Level – The level, in decibels, of the mean-square A-weighted sound pressure during a stated time period, with reference to the square of the standard reference sound pressure of 20 micropascals. The "average sound level" is equivalent to the industry standard Leq. See Equivalent Continuous Sound Level.

Base – A layer of specified material of planned thickness placed immediately below the pavement or surfacing.

 ${\bf Bid}$ – The offer or proposal of the Bidder submitted on the prescribed form setting forth the prices for the Work.

Bidder – Any individual, firm, partnership, corporation, or combination thereof, submitting a Bid for the Work, acting directly or through a duly authorized representative.

Board – The officer or body constituting the awarding authority of the Agency, which is the City Council for the City of Carlsbad or the Board of Directors of Carlsbad Municipal Water District.

Bond – Bid, performance, and payment bond or other instrument of security.

Caltrans – The State of California, Department of Transportation.

Cash Contract – A Contract financed by means other than special assessments.

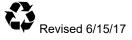
Certificate of Compliance – A written document signed and submitted by a supplier or manufacturer that certifies that the material or assembled material supplied to the Work site conforms to the requirements of the Contract Documents.

Change Order – A written order to the Contractor signed by the Agency directing an addition, deletion, or revision in the Work, or an adjustment in the Contract Price or the Contract time issued after the effective date of the Contract. A Change Order may or may not also be signed by the Contractor.

Code – The terms *Government Code*, *Labor Code*, etc., refer to codes of the State of California.

Construction Manager– the Project Inspector's immediate supervisor and first level of appeal for informal dispute resolution.

Contract – The written agreement between the Agency and the Contractor covering the Work.



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Contract Documents – Including but not limited to; the Contract, any Addendum (which pertain to the Contract Documents), Notice Inviting Bids, Instructions to Bidders; Bid (including documentation accompanying the Bid and any post-bid documentation submitted prior to the Notice of Award) when attached as an exhibit to the Contract, the Bonds, the General Provisions, permits, the Technical Specifications, the Supplemental Provisions, the Plans, Standard Plans, Standard Specifications, Reference Specifications, and all Modifications issued after the execution of the Contract.

Contractor – The individual, partnership, corporation, joint venture, or other legal entity having a Contract with the Agency to perform the Work. In the case of work being done under permit issued by the Agency, the permittee shall be constructed to be the Contractor. The term "prime contractor" shall mean Contractor.

Contract Time - The number of Working Days to complete the Work as specified in the Contract Documents.

Contract Price – The total amount of money for which the Contract is awarded.

Contract Unit Price – The amount stated in the Bid for a single unit of an item of work.

County Sealer – The Sealer of Weights and Measures of the county in which the Contract is let.

Critical Path – In the construction schedule, the sequence of activities that represents the longest path through the Project network of activities and the shortest possible Project duration.

Days – Days shall mean consecutive calendar's days unless otherwise specified.

Decibel – A unit for measuring the amplitude of sound, equal to 20 times the logarithm to the base 10 of the ratio of the pressure of the sound measured to the reference pressure, which is 20 micropascals.

Defective Work - Work that does not conform to the requirements of the Contract Documents.

Deputy City Engineer – The Engineering Manager of the Construction Management & Inspection Department, the Construction Manager's immediate supervisor and the Engineer's designated representative. The Deputy City Engineer is the second level of appeal for informal dispute resolution.

Dispute Board – Persons designated by the City Manager of the City of Carlsbad or Executive Manager of the Carlsbad Municipal Water District, to hear and advise the City Manager on claims submitted by the Contractor. The City Manager for the City of Carlsbad or the Executive Manager for the Carlsbad Municipal Water District is the last appeal level for informal dispute resolution.

Disputed Work – Work in which the Agency and the Contractor are in disagreement.

Electrolier – Street light assembly complete, including foundation, standard, luminaire arm, luminaire, etc.



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Engineer – The City Engineer of the City of Carlsbad or his/her approved representative. The Engineer is the third level of appeal for informal dispute resolution.

Engineer of Record/Design Engineer – A registered professional engineer licensed in the State of California who is qualified to act as an agent of a project owner or to prepare plans for facilities to be accepted by the City of Carlsbad. The term includes persons licensed in the State of California as Civil Engineers or Structural Engineers.

Equivalent Continuous Sound Level (Leq) – The average sound level which, over a given period of time, has the same total energy as the fluctuating noise and is also known as the time-average sound level.

Extra Work – New or unforeseen work not covered by a Contract Unit Price or Stipulated Unit Price.

Float – The number of days by which an activity in the construction schedule may be delayed from either its earliest start date or earliest completion date without extending the Contract Time (total float). Total float belongs to the Project and to any Party to accommodate changes in the Work or to mitigate the effect of events which may delay completion.

Holiday – Holidays and the days observed are listed below. If a holiday falls on a Saturday, the holiday is observed on the preceding Friday. If the holiday falls on a Sunday, it is observed the following Monday. Unless specified otherwise in the Contract Documents or authorized by the Engineer, do not work on holidays.

New Year's Day January 1

Martin Luther King Day
Presidents' Day
Memorial Day

3rd Monday in January
3rd Monday in February
Last Monday in May

Independence Day July 4

Labor Day 1st Monday in September Columbus Day 2nd Monday in October

Veteran's Day November 11

Thanksgiving Day 4th Thursday in November Thanksgiving Friday Day after Thanksgiving

Christmas Day December 25

House Connection Sewer – A sewer, within a public street or right-of-way, proposed to connect any parcel, lot, or part of a lot with a mainline sewer.

House Sewer – A sewer, wholly within private property, proposed to connect any building to a house connection sewer.

Luminaire – The lamp housing including the optical and socket assemblies (and ballast if so specified).

Luminaire Arm - The structural member, bracket, or mast arm, which, mounted on the standard, supports the luminaire.

Minor Bid Item – a single contract item constituting less than 10 percent (10%) of the original Contract Price bid.

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Modification – Includes Change Orders and Supplemental Agreements. A Modification may only be used after the effective date of the Contract.

Night Work – See Working Night.

Notice of Award – The written notice by the Agency to the successful Bidder stating that upon compliance by it with the required conditions, the Agency will execute the Contract.

Notice to Proceed – A written notice given by the Agency to the Contractor fixing the date on which the Contract time will start.

Own Organization - When used in Sections 2-3.1 and 2-3.2 – Employees of the Contractor who are hired, directed, supervised and paid by the Contractor to accomplish the completion of the Work. Further, such employees have their employment taxes, State disability insurance payments, State and Federal income taxes paid and administered, as applicable, by the Contractor. Further, "own organization" means construction equipment that the Contractor owns or leases and uses to accomplish the Work. Equipment that is owner operated or leased equipment with an operator is not part of the Contractor's Own Organization and will not be included for the purpose of compliance with Sections 2-3.1 and 2-3.2.

Person – Any individual, firm, association, partnership, corporation, trust, joint venture, or other legal entity.

Plans – The drawings, profiles, cross sections, working drawings, and supplemental drawings, or reproductions thereof, approved by the Engineer, which show the location, character, dimensions, or details of the Work.

Private Contract – Work subject to Agency inspection, control, and approval, involving private funds, not administered by the Agency.

Project Inspector – the Engineer's designated representative for inspection, contract administration and first level for informal dispute resolution.

Proposal – See Bid.

Reference Specifications – Those bulletins, standards, rules, methods of analysis or test, codes, and specifications of other agencies, engineering societies, or industrial associations referred to in the Contract Documents. These refer to the latest edition, including amendments in effect and published at the time of advertising the project or issuing the permit, unless specifically referred to by edition, volume, or date.

Roadway – The portion of a street reserved for vehicular use.

Service Connection – Service connections are all or any portion of the conduit, cable, or duct, including meter, between a utility distribution line and an individual consumer.

Sewer – Any conduit intended for the reception and transfer of sewage and fluid industrial waste.



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Shop Drawings – Drawings showing the details of manufactured or assembled products proposed to be incorporated into the Work.

Sound Level – The weighted sound pressure level obtained using a sound level meter and frequency weighting network as provided in the American National Standards Institute (ANSI) specifications for sound level meters. "Sound level" means the same as "noise level."

Special Provisions – Revisions to the Standard Specifications setting forth conditions and requirements peculiar to the Work.

Specifications – General Provisions, Standard Specifications, Technical Specifications, Reference Specifications, Supplemental Provisions, and specifications in Supplemental Agreements between the Contractor and the Board.

Standard – The shaft or pole used to support street lighting luminaire, traffic signal heads, mast arms, etc.

Standard Plans – Details of standard structures, devices, or instructions referred to on the Plans or in Specifications by title or number.

Standard Specifications – The Standard Specifications for Public Works Construction (SSPWC), the "Greenbook".

State – State of California.

Stipulated Unit Price – Unit prices established by the Agency in the Contract Documents.

Storm Drain – Any conduit and appurtenances intended for the reception and transfer of storm water.

Street – Any road, highway, parkway, freeway, alley, walk, or way.

Subbase – A layer of specified material of planned thickness between a base and the subgrade.

Subcontractor – An individual, firm, or corporation having a direct contract with the Contractor or with any other Subcontractor for the performance of a part of the Work.

Subgrade – For roadways, that portion of the roadbed on which pavement, surfacing, base, subbase, or a layer of other material is placed. For structures, the soil prepared to support a structure.

Supervision – Supervision, where used to indicate supervision by the Engineer, shall mean the performance of obligations, and the exercise of rights, specifically imposed upon and granted to the Agency in becoming a party to the Contract. Except as specifically stated herein, supervision by the Agency shall not mean active and direct superintendence of details of the Work.

Supplemental Agreement – A written amendment of the Contract Documents signed by both parties.



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Supplemental Provisions – See Special Provisions.

Surety – Any individual, firm, or corporation, bound with and for the Contractor for the acceptable performance, execution, and completion of the Work, and for the satisfaction of all obligations incurred.

Tonne – Also referred to as "metric ton". Represents a unit of measure in the International System of Units equal to 1,000 kilograms.

Utility – Tracks, overhead or underground wires, pipelines, conduits, ducts, or structures, sewers, or storm drains owned, operated, or maintained in or across a public right of way or easement.

Work – That which is proposed to be constructed or done under the Contract or permit, including the furnishing of all labor, materials, equipment, and services.

Working Drawings – Drawings showing the details not shown on the Plans which are required to be designed by the Contractor.

Working Night – A period of night-time work, allowed only on Sunday through Thursday, excluding holidays.

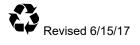
1-3 ABBREVIATIONS.

1-3.1 General. The abbreviation herein, together with others in general use, are applicable to these Standard Specifications and to project Plans or other Contract Documents.

All abbreviations and symbols used on Plans for structural steel construction shall conform to those given by the "Manual of Steel Construction" published by the American Institute of Steel Construction, Inc.

1-3.2 Common Usage

<u>Abbreviation</u>	Word or Words	<u>Abbreviation</u>	Word or Words
	Abandon	CAL/OSHA	California Occupational Safety and
	Abandoned		Health Administration
	Acrylonitrile – butadiene – styrene		alifornia Department of Transportation
	Asphalt Concrete		Corrugated aluminum pipe
ACP	Asbestos cement pipe	CB	Catch Basin
ACWS	Asphalt concrete wearing surface	Cb	Curb
ALT	Alternate	CBP	Catch Basin Connection Pipe
APTS	Apartment and Apartments	CBR	California Bearing Ratio
AMER STD	American Standard	CCR	California Code of Regulations
AWG	American Wire Gage (nonferrous wire)	CCTV	Closed Circuit TV
BC	Beginning of curve	CES	Carlsbad Engineering Standards
BCR	Beginning of curb return	CF	Curb face
BDRY	Boundary		Cubic foot
BF	Bottom of footing	C&G	Curb and gutter
BLDG	Building and Buildings	CFR	Code of Federal Regulations
	Benchmark		Cubic Feet per Second
BVC	Beginning of vertical curve	CIP	Cast iron pipe
B/W	Back of wall		Cast-in place pipe
C/C	Center to center	CL	Clearance, center line
	Crushed aggregate base		Chain link fence



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CMBCrushed miscellaneous base
CMCCement mortar-coated
CML Cement mortar-lined
CMWD Carlsbad Municipal Water District
COCleanout (Sewer)
COLColumn
COMMCommercial
CONC Concrete
CONNConnection
CONST Construct, Construction
COORDCoordinate
CSPCorrugated steel pipe
CSD Carlsbad Standard Drawings
CTB Cement treated base
CV Check valve
CYCubic yard
DLoad of pipe
dBDecibels
DBL Double
DF
DIA Diameter
DIP
DLDead load
DRDimension Ratio
DTDrain Tile
DWGDrawing
DWYDriveway
DWY APPR Driveway approach
Electric
EAEach
EC End of curve
ECR End of curb return
EF Each face
EG Edge of gutter
EGL Energy grade line
ELC Electrolier lighting conduit
ELT Extra long ton
ENGR Engineer, Engineering
EP Edge of pavement
ESMT Easement
ETB Emulsion-treated base
EVC End of vertical curb
EWA Encina Wastewater Authority
EXC
EXP JT Expansion joint
EXST Existing
FFahrenheit
F&CFrame and cover
F&IFurnish and install
FABFabricate
FASFlashing arrow sign
FDFloor drain
FDNFoundation
FED SPEC Federal Specification
FGFinished grade
FHFire hydrant
FLFlow line
FS Finished surface
FT-LBFoot-pound
FTGFooting
FWFace of wall

G Gas
GAGauge
GAL Gallon and Gallons
GALVGalvanized
GAR Garage and Garages
GIP Galvanized iron pipe
GL Ground line or grade line
GM Gas meter
GNV Ground Not Visible
GPGuy pole
GPMgallons per minute
GRGrade
GRTGGrating
GSPGalvanized steel pipe
HHigh or height
HBHose bib
HCHouse connection
HDWL Headwall
HGLHydraulic grade line
HORIZHorizontal
HPHorsepower
HPGHigh pressure gas
HPSHigh pressure sodium (Light)
HYDRHydraulic
IEInvert Elevation
ID Inside diameter
INCLIncluding
INSPInspection
INVInvert
IPIron pipe
JCJunction chamber
JCTJunction
JSJunction structure
JT Joint
LLength
LABLaboratory
LATLateral
LBPound
LDLocal depression
LFLinear foot
LH Lamp hole
LLLive load
LOLLayout line
LONGLongitudinal
LPLamp post
LPSLow pressure sodium (Light)
LSLump sum
LTSLime treated soil
LWDLeucadia Wastewater District MAINTMaintenance
MAX Maximum
MCD Middle of our broturn
MCRMiddle of curb return
MEAS
MHManhole, maintenance hole MIL SPECMilitary specification
MISC Miscellaneous
MOD
MONMonument
MSL Mean Sea Level (Reg. Standard Drawing M-12)
MTBMMicrotunneling Boring Machine
MULTMultiple
MUTCDManual on Uniform Traffic Control Devices
MVL Mercury vapor light
NCTD
,



NRCP	
	Nonreinforced concrete pipe
OBS	Obsolete
	On center
OD	Outside diameter
	Outer edge
OHE	Overhead Electric
OMWD	Olivenhain Municipal Water District
OPP.	Opposite
OFF	Opposite
ORIG	Ôriginal
PB	Pull box
PC	Point of curvature
PCC	Portland cement concrete or point
	of compound curvaturePoint of compound vertical curve
PCVC	Point of compound vertical curve
DE	Polyethylene
F E	Polyetrylene
PI	Point of intersection
PL	Property line
	Processed miscellaneous base
POC	Point on curve
	Point on tangent
	Power pole
FF	Power pole
PRC	Point of reverse curve
PRVC	Point of reverse vertical curve
PSI	Pounds per square inch
PT	Point of tangency
DVC	Polyvinyl chloride
PVC	Polyvinyi chioride
PVM1	Pavement
PVT R/V	VPrivate right-of-way
Q	Rate of flow in cubic feet per second
OLIAD	Quadrangle, Quadrant
	Radius
R&O	Rock and oil
R/W	Right-of-way
RA	Recycling agent
RAC	
	Recycled asphalt concrete
RAP	Recycled asphalt concrete
RAP	Recycled asphalt concreteReclaimed asphalt pavement
RAP RBAC	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete
RAP RBAC RC	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete
RAP RBAC RC RCB	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box
RAP RBAC RC RCB	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Registered civil engineer
RAP RBAC RC RCB RCE	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe
RAP RBAC RC RCB RCE	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe
RAP RBAC RC RCE RCF RCV	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve
RAP RBAC RC RCB RCE RCP RCV REF	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference
RAP RBAC RC RCB RCE RCP RCV REF REINF	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement
RAP RBAC RCB RCE RCP RCV REF REINF	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir
RAP RBAC RCB RCE RCP RCV REF REINF RES	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Registered geotechnical engineer
RAP RBAC RCB RCE RCP RCV REF REINF RES	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement
RAP RBAC RCB RCE RCP RCV REF REINF RES RGE	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Registered geotechnical engineer Right-of-Way
RAP RBAC RCB RCE RCP REF REINF RES RGE ROW	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Registered geotechnical engineer Right-of-Way Railroad
RAP RBAC RCB RCP RCY REF REINF RES RGE RGE ROW RR RSE	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Registered geotechnical engineer Railroad Registered structural engineer
RAP RBAC RCB RCE RCP REF REINF RES ROW RR.	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Registered geotechnical engineer Railroad Registered structural engineer Registered traffic engineer
RAP RBAC RCB RCE RCP REF RES RES ROW RR. RSE RSE RSE RSE RSE	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Registered geotechnical engineer Railroad Registered structural engineer Registered traffic engineer Sewer or Slope, as applicable
RAP RBAC RCB RCE RCP REF REINF RES RGE ROW RR. RR. RR. RSE ROW RSE	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Registered geotechnical engineer Railroad Registered structural engineer Registered traffic engineer Sewer or Slope, as applicable Steel cylinder concrete pipe
RAP RBAC RCB RCE RCP REF REINF RES RGE ROW RR. RR. RR. RSE ROW RSE	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Registered geotechnical engineer Railroad Registered structural engineer Registered traffic engineer Sewer or Slope, as applicable Steel cylinder concrete pipe
RAP RBAC RCB RCP RCY REF RES RGE RGE RGE RGE ROW RR RSE RSE SCCP SD	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Registered geotechnical engineer Railroad Registered structural engineer Registered traffic engineer Sewer or Slope, as applicable Steel cylinder concrete pipe Storm drain
RAP RBAC RCB RCP RCY REF RES RGE RSE RSE RSE SCCP SDNR	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Registered geotechnical engineer Registered structural engineer Registered traffic engineer Sewer or Slope, as applicable Steel cylinder concrete pipe Storm drain San Diego Northern Railway
RAP RBAC RCB RCP RCY REF RES RGE RSE RSE RSE SCCP SDNR	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Registered geotechnical engineer Railroad Registered structural engineer Registered traffic engineer Sewer or Slope, as applicable Steel cylinder concrete pipe Storm drain San Diego Northern Railway
RAP RBAC RCB RCP RCY REF RES RGE RSE RSE RSE SCCP SDNR SDR	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Registered geotechnical engineer Registered structural engineer Registered traffic engineer Sewer or Slope, as applicable Steel cylinder concrete pipe Storm drain San Diego Northern Railway Standard thermoplastic pipe dimension ratio (ratio of pipe O.D. to minimum wall thickness)
RAP RBAC RCB RCE RCP RCV REF RES RGE RSE RSE RSE SCCP SDNR SDRSD	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Registered geotechnical engineer Registered structural engineer Registered traffic engineer Sewer or Slope, as applicable Steel cylinder concrete pipe Storm drain San Diego Northern Railway Standard thermoplastic pipe dimension ratio (ratio of pipe O.D. to minimum wall thickness) San Diego Regional Standard Drawings
RAP RBAC RCB RCP RCY REF RES RGE RSE RSE RSE SCCP SDNR SDRSD SE	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Reservoir Registered geotechnical engineer Registered structural engineer Registered traffic engineer Sewer or Slope, as applicable Steel cylinder concrete pipe Storm drain San Diego Northern Railway Standard thermoplastic pipe dimension ratio (ratio of pipe O.D. to minimum wall thickness) San Diego Regional Standard Drawings Sand Equivalent
RAP RBAC RCB RCP RCY REF RES RGE RSE ROW RSE SCCP SDNR SDRSD SDRSD SE SEC	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Registered geotechnical engineer Right-of-Way Railroad Registered structural engineer Registered traffic engineer Sewer or Slope, as applicable Steel cylinder concrete pipe Storm drain San Diego Northern Railway Standard thermoplastic pipe dimension ratio (ratio of pipe O.D. to minimum wall thickness) San Diego Regional Standard Drawings Sand Equivalent Section
RAP RBAC RCB RCP RCY REF RES RGE RSE ROW RSE SCP SDR SDRSD SE SEC SF	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Registered geotechnical engineer Right-of-Way Railroad Registered structural engineer Registered traffic engineer Sewer or Slope, as applicable Steel cylinder concrete pipe Storm drain San Diego Northern Railway Standard thermoplastic pipe dimension ratio (ratio of pipe O.D. to minimum wall thickness) San Diego Regional Standard Drawings Sand Equivalent Section Square foot
RAP RBAC RCB RCP RCY REF RES RGE RSE ROW RSE SCP SDR SDRSD SE SEC SF	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Registered geotechnical engineer Right-of-Way Railroad Registered structural engineer Registered traffic engineer Sewer or Slope, as applicable Steel cylinder concrete pipe Storm drain San Diego Northern Railway Standard thermoplastic pipe dimension ratio (ratio of pipe O.D. to minimum wall thickness) San Diego Regional Standard Drawings Sand Equivalent Section Square foot
RAP RBAC RCB RCP RCY REF RES RGE ROW RTE SCP SDNR SDRSD SDRSD SEC SFM	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Registered geotechnical engineer Right-of-Way Railroad Registered structural engineer Registered traffic engineer Sewer or Slope, as applicable Steel cylinder concrete pipe Storm drain San Diego Northern Railway Standard thermoplastic pipe dimension ratio (ratio of pipe O.D. to minimum wall thickness) San Diego Regional Standard Drawings Sand Equivalent Section Square foot Sewer Force Main
RAP RBAC RCB RCF RCP REF REINF RES RGE RSE RSE SCP SDNR SDRSD SDRSD SEC SFM SI	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Registered geotechnical engineer Right-of-Way Registered structural engineer Registered traffic engineer Registered traffic engineer Sewer or Slope, as applicable Steel cylinder concrete pipe Storm drain San Diego Northern Railway Standard thermoplastic pipe dimension ratio (ratio of pipe O.D. to minimum wall thickness) San Diego Regional Standard Drawings Sand Equivalent Section Square foot Sewer Force Main International System of Units (Metric)
RAP RBAC RCB RCP RCY REF RES RGE RSE RSE RSE SCCP SDNR SDNR SDRSD SEC SFM SPEC	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Registered geotechnical engineer Right-of-Way Railroad Registered structural engineer Registered traffic engineer Sewer or Slope, as applicable Steel cylinder concrete pipe Storm drain San Diego Northern Railway Standard thermoplastic pipe dimension ratio (ratio of pipe O.D. to minimum wall thickness) San Diego Regional Standard Drawings San Diego Regional Standard Drawings Sand Equivalent Section Square foot Sewer Force Main International System of Units (Metric)
RAP RBAC RCB RCP RCY REF RES RGE RSE RSE RSE SCCP SDNR SDNR SDRSD SDRSD SEC SFM SPEC SPPWC	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Registered geotechnical engineer Right-of-Way Railroad Registered structural engineer Registered traffic engineer Sewer or Slope, as applicable Steel cylinder concrete pipe Storm drain San Diego Northern Railway Standard thermoplastic pipe dimension ratio (ratio of pipe O.D. to minimum wall thickness) San Diego Regional Standard Drawings Sand Equivalent Section Square foot Sewer Force Main International System of Units (Metric) Specifications Standard Plans for
RAP RBAC RCB RCP RCY REF RES RGE RSE RSE RSE SCCP SDNR SDNR SDRSD SDRSD SEC SFM SPEC SPPWC	Recycled asphalt concrete Reclaimed asphalt pavement Rubberized asphalt concrete Reinforced concrete Reinforced concrete box Registered civil engineer Reinforced concrete pipe Remote control valve Reference Reinforced or reinforcement Reservoir Registered geotechnical engineer Right-of-Way Railroad Registered structural engineer Registered traffic engineer Sewer or Slope, as applicable Steel cylinder concrete pipe Storm drain San Diego Northern Railway Standard thermoplastic pipe dimension ratio (ratio of pipe O.D. to minimum wall thickness) San Diego Regional Standard Drawings San Diego Regional Standard Drawings Sand Equivalent Section Square foot Sewer Force Main International System of Units (Metric)

SSPWC	Standard Specifications for
	Public Works Construction
ST HWY	State highway
	Station
	Standard
SIR	Straight
STR GR	Straight grade
STRUC	Structural/Structure
SW	Sidewalk
SWD	Sidewalk drain
87	Square yard
T	Telephone
TANK	reiepnone
IAN	Tangent
TC	Top of curb
TEL	Telephone
TF	Top of footing
TOPO	Topography
TR	Tract
	Transition
T9 T	raffic signal or transition structure
TOC	Traffic signal or transition structure
750	Traffic signal conduit
188	Traffic signal standard
1 VV	Top_of wall
TYP	Typical
UE	Underground Electric
USA	Underground Service Alert
VAR	Varies, Variable
VB	Valve box
	Vertical curve
VCP	Vitrified clay pipe
VEDT	Vitilied day pipe
VOI	Volume
VOL	volume
VVVD	Vallecitos Water District
WWa	ter, Wider or Width, as applicable
	ork Area Traffic Control Handbook
WI	Wrought iron
WM	Water meter
WPJ	Weakened plane joint
XCONN	Cross connection
	Cross section
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	01033 3001011



1-3.3 Institutions.

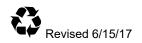
<u>Abbreviation</u> <u>Word or Words</u>

AASHTO	American Association of State Highway and Transportation Officials
	American Concrete Institute
	American Institute of Steel Construction
ANSI	American National Standards Institute
AREA	American Railway Engineering Association
	American Society of Mechanical Engineers
ASQ	American Society for Quality
ASTM	American Society for Testing and Materials
AWPA	American Wood Preservers Association
AWS	American Welding Society
AWWA	American Water Works Association
EEI	Edison Electric Institute
EIA	Electronic Industries Alliance
EPA	Environmental Protection Agency
	Electrical Testing Laboratories
FCC	Federal Communications Commission
FHWA	Federal Highway Administration
GRI	Geosynthetic Research Institute
IEEE	Institute of Electrical and Electronics Engineers
	International Municipal Signal Association
ISSA	International Slurry Surfacing Association
ITE	Institute of Transportation Engineers
NCHRP	National Cooperative Highway Research Program
NEMA	National Electrical Manufacturers Association
NSF	National Science Foundation
OSHA	Occupational Safety and Health Administration
PPI	Plastics Pipe Institute
	Rural Utilities Service
SAE	Society of Automotive Engineers
SSPC	Society for Protective Coatings
UL	

1-4 UNITS OF MEASURE.

1-4.1 General. U.S. Standard Measures, also called U.S. Customary System, are the principal measurement system in these specifications. However, certain material specifications and test requirements contained herein use SI units specifically and conversions to U.S. Standard Measures may or may not have been included in these circumstances. When U.S. Standard Measures are not included in parenthesis, then the SI units shall control. S.I. units and U.S. Standard Measures in parenthesis may or may not be exactly equivalent.

Reference is also made to ASTM E 380 for definitions of various units of the SI system and a more extensive set of conversion factors.



1-4.2 Units of Measure and Their Abbreviations.

U.S. Customary Unit (Abbreviations)	(Equal To)	SI Unit (Abbreviations)
1 mil (=0.001 in)		25.4 micrometer (µm)
1 inch (in)		25.4 millimeter (mm)
1 inch (in)		
1 foot (ft)		0.3048 meter (m)
1 yard (ýd)		
1 mile (mi)		1.6093 kilometer (km)
1 square foot (ft²)		0.0929 square meter (m²)
1 square yard (yd²)		0.8361 square meter (m²)
1 cubic foot (ft ³)		0.0283 cubic meter (m ³)
1 cubic yard (yd³)		0.7646 cubic meter (m³)
1 acre		0.4047 hectare (ha)
1 U.S. gallon (gal)		3.7854 Liter (L)
1 fluid ounce (fl. oz.)		29.5735 millileter (mL)
1 pound mass (lb) (avoirdupois)		0.4536 kilogram (kg)
1 ounce mass (oź)		0.02835 Kilogram (Kg)
1 Ton (=2000 lb avoirdupois)		0.9072 Tonne (= 907 kg)
1 Poise		0.1 pascal second (Pa s)
1 centistoke (cs)		
1 married force (llef)		second (mm²/s)
1 pound force (lbf) 1 pounds per square inch (psi)	•••••	4.4402 NEWIOH (N)
1 pound force per foot (lbf/ft)		0.0940 Kilopascai (KPa)
r pourid force per foot (ibi/it)	•••••	
1 foot pound force (ft lbf)		meter (N/m)
1 foot-pound force (ft-lbf)		1 2559 Matt (M)
1 foot-pound force per second ([ft-lbf]/s 1 part per million (ppm)	>)	1 milligram/liter (mg/L)
r part per million (ppm)		i illilligraffi/liter (flig/L)
Tamanayatuwa Unita and Abbyovia	41	
Temperature Units and Abbrevia	tions	D (0-1-i (00)-
Degree Fahrenheit (°F):°F = (1.8 x °C) + 32		Degree Ceisius (°C):
F = (1.8 x °C) + 32		$^{3}C = (^{3}F - 32)/1.8$
SI Units (abbreviation) Common 1 Ampere (A) 1 Volt (V) 1 Candela (cd) 1 Lumen (lm) 1 second (s)	ly Used in Both Systems	
Common Metric Prefixes		
kilo (k)		10 ³
centì (c)		10-2
milli (m)		
micro (μ)		
nano (n)		10 ⁻⁹
pico (p) [']		10 ⁻¹²
SYMBOLS.		

1-5

- Delta, the central angle or angle between tangents Angle Percent Δ
- ∠ %
- Feet or minutes
- Inches or seconds
 per or (between words)
 Degree
 Property line
 Centerline
 Survey line or station line

- PL CL SL



SECTION 2 – SCOPE AND CONTROL OF WORK

- **2-1 AWARD AND EXECUTION OF CONTRACT.** Award and execution of Contract will be as provided for in the Specifications, Instruction to Bidders, or Notice Inviting Bids.
- **2-2 ASSIGNMENT.** No Contract or portion thereof may be assigned without consent of the board, except that the contractor may assign money due or which will accrue to it under the contract. If given written notice, such assignment will be recognized by the Board to the extent permitted by law. Any assignment of money shall be subject to all proper withholdings in favor of the Agency and to all deductions provided for in the Contract. All money withheld, whether assigned or not, shall be subject to being used by the Agency for completion of the work, should the Contractor be in default.

2-3 SUBCONTRACTS.

2-3.1 General. Each Bidder shall comply with the Chapter of the Public Contract Code including Sections 4100 through 4113. The following excerpts or summaries of some of the requirements of this Chapter are included below for information:

The Bidder shall set forth in the Bid, as provided in 4104:

- "(a) 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 improvements, 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, or, in the case of bids or offers for the construction of streets or highways, including bridges, in excess of one-half of 1 percent of the prime contractor's total bid or ten thousand dollars (\$10,000), whichever is greater."
- "(b) The portion of the work which will be done by each such subcontractor under this act. The prime contractor shall list only one subcontractor for each such portion as is defined by the prime contractor in his bid."

If the Contractor fails to specify a Subcontractor or specifies more than one Subcontractor for the same portion of the work to be performed under the Contract (in excess of one-half of 1 percent of the Contractor's total Bid), the Contractor shall be qualified to perform that portion itself, and shall perform that portion itself, except as otherwise provided in the Code.

As provided in Section 4107, no Contractor whose Bid is accepted shall substitute any person as Subcontractor in place of the Subcontractor listed in the original Bid, except for causes and by procedures established in Section 4107.5. This section provides procedures to correct a clerical error in the listing of a Subcontractor.

Section 4110 provides that a Contractor violating any of the provisions of the Chapter violates the Contract and the Board may exercise the option either to cancel the Contract or assess the Contractor a penalty in an amount of not more than 10 percent of the subcontract involved, after a public hearing.

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Should the Contractor fail to adhere to the provisions requiring the Contractor to complete **50 percent** of the contract price with its own organization, the Agency may at its sole discretion elect to cancel the contract or deduct an amount equal to 10 percent of the value of the work performed in excess of **50 percent** of the contract price by other than the Contractor's own organization. The Board shall be the sole body for determination of a violation of these provisions. In any proceedings under this section, the prime contractor shall be entitled to a public hearing before the Board and shall be notified ten (10) days in advance of the time and location of said hearing. The determination of the Board shall be final.

2-3.2 Additional Responsibility. The Contractor shall give personal attention to the fulfillment of the Contract and shall keep the Work under its control.

The Contractor shall perform, with its own organization, Contract work amounting to at least 50 percent of the Contract Price except that any designated "Specialty Items" may be performed by subcontract, and the amount of any such "Specialty Items" so performed may be deducted from the Contract Price before computing the amount required to be performed by the Contractor with its own organization. "Specialty Items" will be identified by the Agency in the Bid or Proposal. Where an entire item is subcontracted, the value of work subcontracted will be based on the Contract Unit Price. When a portion of an item is subcontracted, the value of work subcontracted will be based on the estimated percentage of the Contract Unit Price. This will be determined from information submitted by the Contractor, and subject to approval by the Engineer.

Before the work of any Subcontractor is started, the Contractor shall submit to the Engineer for approval a written statement showing the work to be subcontracted giving the name and business of each Subcontractor and description and value of each portion of the work to be so subcontracted.

- **2-3.3 Status of Subcontractors.** Subcontractors shall be considered employees of the Contractor, and the Contractor shall be responsible for their work.
- **2-4 CONTRACT BONDS.** Before execution of the Contract, the Bidder shall file surety bonds with the Agency to be approved by the Board in the amounts and for the purposes noted below. Bonds issued by a surety, who is authorized to issue bonds in California, and whose bonding limitation shown in said circular is sufficient to provide bonds in the amount required by the Contract shall be deemed to be approved unless specifically rejected by the Agency. Bonds from all other sureties shall be accompanied by all of the documents enumerated in Code of Civil Procedure 995.660 (a). The Bidder shall pay all bond premiums, costs, and incidentals.

Before execution of the Contract, the Bidder shall file surety bonds with the Agency to be approved by the Board in the amounts and for the purposes noted below. Bonds issued by a surety, who is authorized to issue bonds in California, and whose bonding limitation shown in said circular is sufficient to provide bonds in the amount required by the Contract shall be deemed to be approved unless specifically rejected by the Agency. Bonds from all other sureties shall be accompanied by all of the documents enumerated in Code of Civil Procedure 995.660 (a). The Bidder shall pay all bond premiums, costs, and incidentals.

Each bond shall incorporate, by reference, the Contract and be signed by both the Bidder and Surety and the signature of the authorized agent of the Surety shall be notarized.

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The Contractor shall provide a faithful performance/warranty bond and payment bond (labor and materials bond) for this contract. The faithful performance/warranty bond shall be in a sum not less than one hundred percent of the total amount payable by the terms of this contract. The Contractor shall provide bonds to secure payment of laborers and materials suppliers in a sum not less than one hundred percent of the total amount payable by the terms of this contract.

Both bonds shall extend in full force and effect and be retained by the Agency during this project until they are released according to the provisions of this section.

The faithful performance/warranty bond will be reduced to 25 percent of the original amount 30 days after recordation of the Notice of Completion and will remain in full force and effect for the one-year warranty period and until all warranty repairs are completed to the satisfaction of the Engineer. The bonds to secure payment of laborers and materials suppliers shall be released six months plus 30 days after recordation of the Notice of Completion if all claims have been paid.

All bonds are to be placed with a surety insurance carrier admitted and authorized to transact the business of insurance in California and whose assets exceed their liabilities in an amount equal to or in excess of the amount of the bond. The bonds are to contain the following documents:

- 1. An original, or a certified copy, of the un-revoked appointment, power of attorney, by laws, or other instrument entitling or authorizing the person who executed the bond to do so.
- 2. A certified copy of the certificate of authority of the insurer issued by the insurance commissioner.

If the bid is accepted, the Agency may require a financial statement of the assets and liabilities of the insurer at the end of the quarter calendar year prior to 30 days next preceding the date of the execution of the bond. The financial statement shall be made by an officer's certificate as defined in Section 173 of the Corporations Code. In the case of a foreign insurer, the financial statement may be verified by the oath of the principal officer or manager residing within the United States.

Should any bond become insufficient, the Contractor shall renew the bond within 10 days after receiving notice from the Agency.

Should any Surety at any time be unsatisfactory to the Board, notice will be given the Contractor to that effect. No further payments shall be deemed due or will be made under the contract until a new Surety shall qualify and be accepted by the Board.

Changes in the Work or extensions of time, made pursuant to the Contract, shall in no way release the Contractor or Surety from its obligations. Notice of such changes or extensions shall be waived by the Surety.

2-5 PLANS AND SPECIFICATIONS.

2-5.1 General. The Contractor shall keep at the Work site a copy of the Plans and Specifications, to which the Engineer shall have access at all times.

The specifications for the work include the General Provisions, Supplemental Provisions, Project Technical Specifications, Carlsbad Engineering Standards (CES), Standard Specifications for Public Works Construction (SSPWC) and the latest supplements thereto,

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2024 edition as published by the "Greenbook" Committee of Public Works Standards, Inc., hereinafter designated "SSPWC", as amended.

The Plan set for the contract consists of Drawing Number 469-6B and includes three sheets.

The Standard Drawings consist of the latest edition of the San Diego Area Regional Standard Drawings, hereinafter designated SDRSD, as issued by the San Diego County Department of Public Works, together with the most recent editions of the City of Carlsbad Engineering Standards and Carlsbad Standard Drawings, as issued by the City of Carlsbad and the Carlsbad Municipal Water District, hereinafter designated as CES and CSD, respectively. Modified standard drawings, if applicable, are enclosed in the appendices to these General Provisions.

The Plans, Specifications, and other Contract Documents shall govern the Work. The Contract Documents are intended to be complementary and cooperative. Anything specified in the Specifications and not shown on the Plans or shown on the Plans and not specified in the Specifications, shall be as though shown on or specified in both.

The Plans shall be supplemented by such working drawings and shop drawings as are necessary to adequately control the Work.

The Contractor shall ascertain the existence of any conditions affecting the cost of the Work through a reasonable examination of the Work site prior to submitting the Bid.

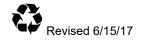
Existing improvements visible at the Work site, for which no specific disposition is made on the Plans, but which interfere with the completion of the Work, shall be removed and disposed of by the Contractor.

The Contractor shall, upon discovering any error or omission in the Plans or Specifications, immediately call it to the attention of the Engineer.

2-5.2 Precedence of Contract Documents.

If there is a conflict in the Contract Documents, the document highest in precedence shall control. The precedence shall be the most recent edition of the following documents listed in order of highest to lowest precedence:

- 1. Permits from other agencies as may be required by law.
- 2. Change orders, whichever occurs last.
- 3. Contract addenda, whichever occurs last.
- 4. Contract.
- 5. Technical Specifications.
- 6. Carlsbad General and Supplemental Provisions.
- 7. Carlsbad Engineering Standards.
- 8. Technical Specifications.
- 9. Plans.
- 10. Standards Plans.
 - a. City of Carlsbad Standard Drawings.
 - b. City of Carlsbad Standard Drawings.
 - c. City of Carlsbad modifications to the San Diego Area Regional Standard Drawings.
 - d. San Diego Area Regional Standard Drawings.



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- e. Traffic Signal Design Guidelines and Standards.
- f. State of California Department of Transportation Standard Plans.
- g. State of California Department of Transportation Standard Specifications.
- h. California Manual on Uniform Traffic Control Devices (CA MUTCD).
- 10. Standard Specifications for Public Works Construction, as amended.
- 11. Reference Specifications.
- 12. Manufacturer's Installation Recommendations

Detail drawings shall take precedence over general drawings.

Detailed plans and plan views shall have precedence over general plans.

2-5.2.1 Precedence of Caltrans Specifications. Where Caltrans specifications are used to modify the SSPWC or are added to the SSPWC by the Contract Documents, the Caltrans specifications shall have precedence only in reference to the materials referred to in the Caltrans specifications. The documents listed in Section 2-5.2 above, in their order of precedence above, shall prevail over the Caltrans specifications in all other matters.

2-5.3 Submittals.

2-5.3.1 General. Submittals shall be provided, at the Contractor's expense, as required in 2-5.3.2, 2-5.3.3 and 2-5.3.4, when required by the Plans or Special Provisions, or when requested by the Engineer.

One electronic (PDF) file shall be submitted. If revisions are required, the Engineer will return one redlined copy for resubmission. Upon acceptance, the Engineer will return one electronic copy to the Contractor.

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 Contract Documents, 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 of the submittals.

The Contractor shall allow a minimum of 20 working days for review of submittals unless otherwise specified in the Special Provisions. Each submittal shall be accompanied by a letter of transmittal.

Each submittal shall be consecutively numbered. Resubmittals shall be labeled with the number of the original submittal followed by an ascending alphabetical designation (e.g. The label '4-C' would indicate the third instance that the fourth submittal had been given to the Engineer). Each sheet of each submittal shall be consecutively numbered. Each set of shop drawings and submittals shall be accompanied by a letter of transmittal on the Contractor's letterhead. The letter of transmittal shall contain the following:

- 1. Project title and Agency contract number.
- 2. Number of complete sets.
- 3. Contractor's certification statement.
- 4. Specification section number(s) pertaining to material submitted for review.

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- 5. Submittal number (Submittal numbers shall be consecutive including subsequent submittals for the same materials.)
- 6. Description of the contents of the submittal.
- 7. Identification of deviations from the Contract Documents.
- 8. The signature, printed name, title and company name of the Contractor's representative.

The Contractor shall subscribe to and shall place the following certification on all submittals:

	"I hereby certify that the (equipment, material, procedure(s)) shown and marked in this submittal is that proposed to be incorporated into this Project, is in compliance with the Contract Documents, can be installed in the allocated spaces, and is submitted for approval."
Or	
	I hereby certify that the (equipment, material, procedure(s)) contained herein meet all requirements shown or specified in the Contract Documents, except for the following deviation(s):

2-5.3.2 Working Drawings. Working drawings are drawings showing details not shown on the Plans which are required to be designed by the Contractor. Working drawings shall be of a size and scale to clearly show all necessary details.

Working drawings are required in the following sections:

TABLE 2-5.3.2

TABLE 2-0.0.2			
Item	Section Number	Title	Subject
1	7-8.6.1	Dewatering	Excavation Dewatering
2	7-10.4.1	Safety Orders	Trench Shoring
3	7-10.4.8	Steel Plate Covers	Steel Plate Bridging
4	300-3.2	Cofferdams	Structure Excavation & Backfill
5	300-12.1	SWPPP	SWPPP
6	303-1.6.1	General	Falsework
7	303-1.7.1	General	Placing Reinforcement
8	303-3.1	General	Prestressed Concrete Construction
9	304-1.1.2	Falsework Plans	Structural Steel
10	307-1.1	General	Jacking Operations
11	307-2.1	General	Tunneling Operations
12	306-8	Microtunneling	Microtunneling Operations
13	601-2	Temporary Traffic Control Plan	Traffic Control
14	02690	Temporary Sewer Bypass Pumping	Sewer Bypassing

Working drawings listed above as Items 2, 3, 4, 7, 8, 9, 10, 11, 12, and 13 shall be prepared by a Civil or Structural Engineer registered by the State of California.

2-5.3.3 Shop Drawings. Shop drawings are drawings showing details of manufactured or assembled products proposed to be incorporated into the Work. Shop drawings are required in the following sections and as specified in the Special Provisions:

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TABLE 2-5.3.3

Item	Section Number	Title	Subject
1	207-2.5	Joints	Reinforced Concrete Pipe
2	207-8.4	Joints	Vitrified Clay Pipe
3	304-1.1.1	Shop Drawings	Structural Steel
4	304-2.1	General	Metal Hand Railings

2-5.3.4 Supporting Information. Supporting information is information required by the Specifications for the purposes of administration of the Contract, analysis for verification of conformance with the Specifications, the operation and maintenance of a manufactured product or system to be constructed as part of the Work, and other information as may be required by the Engineer. Three hard copies and one electronic (PDF) file of the supporting information shall be submitted to the Engineer prior to the start of the Work unless otherwise specified in the Special Provisions or directed by the Engineer. Supporting information for systems shall be bound together and include all manufactured items for the system. If resubmittal is not required, one red lined copy will be returned to the Contractor. Supporting information shall consist of the following and is required unless otherwise specified in the Special Provisions:

- 1. List of Subcontractors per 2-3.2.
- 2. List of Materials per 4-1.4.
- 3. Certifications per 4-1.5.
- 4. Construction Schedule per 6-1 and Work Plan per 6-2.
- 5. Confined Space Entry Program per 7-10.4.4.
- 6. Concrete mix designs per 201-1.1.
- 7. Asphalt concrete mix designs per 203-6.1.
- 8. Controller Cabinet Wiring Diagrams per 701-17.2.2
- 9. Data, including, but not limited to, catalog sheets, manufacturer's brochures, technical bulletins, specifications, diagrams, product samples, and other information necessary to describe a system, product or item. This information is required for irrigation systems, street lighting systems, and traffic signals, and may also be required for any product, manufactured item, or system.
- 10. Temporary highline plan per Carlsbad Engineering Standards.
- **2-5.4 Record Drawings.** The Contractor shall maintain a complete "as-built" record set of blue-line prints, which shall be corrected in red ink daily and show every change from the original drawings and specifications and the exact "as-built" locations, sizes and kinds of equipment, underground piping, conduits, valves, and all other work not visible at surface grade. Prints for this purpose may be obtained from the Agency at cost. The official record drawing shall accurately reflect all changes and modifications to the original plan. The Contractor shall formally submit the final record drawing at the final walk-through meeting. At the direction of the Engineer, the Contractor shall correct and revise the Record Drawings to accurately reflect field conditions. Re-submittal of the Record Drawings shall be completed within ten (10) working days of the final walk-through meeting date and shall reflect any additional punch list items. Payment for the upkeep, revision, and submittal of the record drawings shall be included in the lump sum price for mobilization.
- **2-5.5 Project Management and Document Control.** The Contractor shall utilize the Agency's standardized online project management and document control platform: Procore (www.procore.com). The Contractor is required to create a free, web-based, user account(s) and utilize web-based training / tutorials (as needed) to become familiar with the system. Unless the Engineer approves otherwise, the Contractor shall process all project documents through



Procore. If unfamiliar or not otherwise trained with Procore, the Contractor and applicable team members shall complete a free training certification course at the following site: http://learn.procore.com/procore-certification-subcontractor. The Contractor is responsible for obtaining their own technical support, as needed, either through online training or by contacting the Procore support team. The Contractor shall regularly check Procore and review updated documents as they are added. There will be no cost to the Contractor for the use of Procore.

The Contractor shall provide at least one on-site individual with mobile access to the Procore App to provide real-time access to current and updated drawings, specifications, RFIs, submittals, schedules, change orders, and other project documents as well as any deficient observations or punch list items. The Contractor shall post all communications addressed to the Engineer, and shall review and act on all communications addressed to the Contractor, in the Procore App. The use of Procore does not relieve the contractor of any other requirements as may be specified in the Contract Documents.

Procore for Windows, iOS: https://apps.apple.com/us/app/procore-construction-management/id374930542

Procore for Android: https://play.google.com/store/apps/details?id=com.procore.activities

- **2-6 WORK TO BE DONE.** The Contractor shall perform all work necessary to complete the Contract in a satisfactory manner. Unless otherwise provided, the Contractor shall furnish all materials, equipment, tools, labor, and incidentals necessary to complete the Work.
- **2-7 SUBSURFACE DATA.** All soil and test hole data, water table elevations, and soil or groundwater analyses shown on the drawings or included in the Specifications apply only at the location of the test holes and to the depths indicated. Soil test reports for test holes which have been drilled are available for inspection at the office of the Engineer.

The Contractor may make independent investigations of the project site, including evaluation of the soil or groundwater conditions and/or the presence of rock, in order to characterize the subsurface conditions that may be encountered to the Contractor's satisfaction. The costs for such investigations shall be considered included in the bid price and no additional compensation will be made therefor.

The indicated elevation of the water table is that which existed on the date when test hole data was determined. It is the Contractor's responsibility to determine and allow for the elevation of groundwater at the time of project construction. A difference in elevation between groundwater shown in soil boring logs and groundwater actually encountered during construction will not be considered as a basis for extra work.

2-8 RIGHT-OF-WAY. Rights-of-way, easements, or rights-of-entry for the Work, when indicated on the Plans, will be provided by the Agency. Unless otherwise provided, the Contractor shall make arrangements, pay for, and assume all responsibility for acquiring, using, and restoring additional work areas and removing and/or disposing of facilities temporarily required. The Contractor shall indemnify and hold the agency harmless from all claims for damages caused by such actions.

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2-9 SURVEYING.

2-9.1 General. The Contractor will perform and be responsible for the accuracy of surveying adequate for construction. The Contractor shall set and preserve construction survey stakes and marks for the duration of their usefulness. If any construction survey stakes are lost or disturbed and need to be replaced, such replacement shall be performed at the expense of the Contractor.

The Contractor shall notify the Engineer in writing at least 2 Working Days before survey services in connection with the laying out of any portion of the Work. The Contractor shall set all stakes for line and grade. Setting tolerances for construction staking shall conform with Chapter 12, Construction Surveys of the Caltrans Surveys Manual. Surveying to determine the boundaries of the public right-of-way or easements shall conform with Chapter 10, Right-of-Way Surveys.

Unless otherwise specified in the Special Provisions, stakes will be set and stationed for alignments for pipelines (sewers, storm drains, potable water, recycled water) and their appurtenances, curbs, headers, structures, rough grade, finish grade and right-of-way or easement boundaries. A corresponding cut or fill to finished grade (or flowline) will be indicated on a grade sheet.

2-9.2 Permanent Survey Markers. The Contractor shall not cover or disturb permanent survey monuments or benchmarks without the consent of the Engineer. Where the Engineer concurs, in writing, with the Contractor that protecting an existing monument in place is impractical, the Contractor shall employ a licensed land surveyor or a registered civil engineer authorized to practice land surveying within the State of California, hereinafter Surveyor, to establish the location of the monument before it is disturbed. The Contractor shall have the monument replaced by the Surveyor no later than thirty (30) days after construction at the site of the replacement is completed. The Surveyor shall file corner record(s) as required by §§ 8772 and 8773, et seq. of the California Business and Professions Code.

The Contractor shall have a Record of Survey prepared by the Surveyor and file it in conformance with §8700 - 8805 of the State of California Business and Professions Code when the Surveyor performs any surveying that such map is required under §8762 of the State of California Business and Professions Code and whenever the Surveyor shall establish, set or construct any permanent survey monument. SDRS Drawing No. M-10 type monuments, bolts, spikes, leaded tacks and nails (when set in concrete), iron pipes, reinforcing steel and all monuments and marks that are at, or accessory to, property corners and street centerlines are permanent survey monuments. The Record of Survey shall show all monuments set, control monuments used, the basis of bearings and all other data needed to determine the procedure of survey and the degree of accuracy attained by the field surveying including the unadjusted ratio of closure. The unadjusted ratio of closure shall not exceed 1 part in 40,000. The Record of Survey shall show the location and justification of location of all permanent monuments set and their relation to the street right-of-way. Record(s) of Survey(s) shall be submitted for the Engineer's review and approval before submittal to the County Recorder.

When a change is made in the finished elevation of the pavement of any roadway in which a permanent survey monument is located, the Contractor shall adjust the monument frame and cover to the new grade within 7 days of paving unless the Engineer shall approve otherwise.



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Monument frames and covers shall be protected during street sealing or painting projects or be cleaned to the satisfaction of the Engineer.

2-9.3 Line and Grade. All work shall conform to the lines, elevations, and grades shown on the Plans.

Three consecutive points set on the same slope shall be used together so that any variation from a straight grade can be detected. Any such variation shall be reported to the Engineer. In the absence of such report, the Contractor shall be responsible for any error in the grade of the Work.

Grades for underground conduits will be set at the surface of the ground. The Contractor shall transfer them to the bottom of the trench.

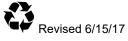
2-9.4 Payment for Survey, Payment for survey work shall be included in the bid items requiring the survey work and no additional payment will be made. Extension of unit prices for extra work shall include full compensation for attendant survey work and no additional payment will be made.

Payment for the replacement of disturbed monuments and the filing of records of survey and/or corner records, including filing fees, shall be included in the contract price for Replace Survey Monument. If no such bid item is listed in the bid, payment shall be considered incidental to the Work necessitating the disturbance of said monuments and no additional payment will be made.

2-10 AUTHORITY OF BOARD AND ENGINEER. The Board has the final authority in all matters affecting the Work. Within the scope of the Contract, the Engineer has the authority to enforce compliance with the Plans and Specifications. The Contractor shall promptly comply with instructions from the Engineer or an authorized representative.

The decision of the Engineer is final and binding on all questions relating to: quantities; acceptability of material, equipment, or work; execution, progress or sequence of work; and interpretation of the Plans, Specifications, or other drawings. This shall be precedent to any payment under the Contract, unless otherwise ordered by the Board.

- **2-10.1 Availability of Records,** The Contractor shall, at no charge to the Agency, provide copies of all records in the Contractor's or subcontractor's possession pertaining to the work that the Engineer may request.
- **2-10.2 Audit and Inspection,** Contractor agrees to maintain and/or make available, to the Engineer, within San Diego County, accurate books and accounting records relative to all its activities and to contractually require all subcontractors to this Contract to do the same. The Engineer shall have the right to monitor, assess, and evaluate Contractor's and its subcontractors' performance pursuant to this Agreement, said monitoring, assessments, and evaluations to include, but not be limited to, audits, inspection of premises, reports, contracts, subcontracts and interviews of Contractor's staff and the staff of all subcontractors to this contract. At any time during normal business hours and as often as the Engineer may deem necessary, upon reasonable advance notice, Contractor shall make available to the Engineer for examination, all of its, and all subcontractors to this contract, records with respect to all matters covered by this Contract and will permit the Engineer to audit, examine, copy and make excerpts or transcripts from such data and records, and to make audits of all invoices, materials, payrolls, records of personnel, and other data relating to all matters covered by this Contract.



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However, any such activities shall be carried out in a manner so as to not unreasonably interfere with Contractor's ongoing business operations. Contractor and all subcontractors to this contract shall maintain such data and records for as long as may be required by applicable laws and regulations.

2-11 INSPECTION. The Work is subject to inspection and approval by the Engineer. The Contractor shall notify the Engineer before noon of the working day before inspection is required. Work shall be done only in the presence of the Engineer, unless otherwise authorized. Any work done without proper inspection will be subject to rejection. The Engineer and any authorized representatives shall at all times have access to the Work during its construction at shops and yards as well as the project site. The Contractor shall provide every reasonable facility for ascertaining that the materials and workmanship are in accordance with these Specifications. Inspection of the Work shall not relieve the Contractor of the obligation to fulfill all conditions of the Contract.

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SECTION 3 – CHANGES IN WORK

3-1 CHANGES REQUESTED BY THE CONTRACTOR.

- **3-1.1 General.** Changes in the Plans and Specifications, requested in writing by the Contractor, which do not materially affect the Work and which are not detrimental to the Work or to the interests of the Agency, may be granted by the Engineer. Nothing herein shall be construed as granting a right to the Contractor to demand acceptance of such changes.
- **3-1.2 Payment for Changes Requested by the Contractor.** If such changes are granted, they shall be made at a reduction in cost or no additional cost to the Agency.

3-2 CHANGES INITIATED BY THE AGENCY.

3-2.1 General. The Agency may change the Plans, Specifications, character of the work, or quantity of work provided the total arithmetic dollar value of all such changes, both additive and deductive, does not exceed 25 percent of the Contract Price. Should it become necessary to exceed this limitation, the change shall be by written Supplemental Agreement between the Contractor and Agency, unless both parties agree to proceed with the change by Change Order.

Change Orders shall be in writing and state the dollar value of the change or established method of payment, any adjustment in contract time of completion, and when negotiated prices are involved, shall provide for the Contractor's signature indicating acceptance.

3-2.2 Payment.

3-2.2.1 Contract Unit Prices. If a change is ordered in an item of work covered by a Contract Unit Price, and such change does not involve substantial change in character of the work from that shown on the Plans or specified in the Specifications, then an adjustment in payment will be made. This adjustment will be based upon the increase or decrease in quantity and the Contract Unit Price.

If the actual quantity of an item of work covered by a Contract Unit Price and constructed in conformance with the Plans and Specifications varies from the Bid quantity by 50 percent or less, payment will be made at the Contract Unit Price. If the actual quantity of said item of work varies from the Bid quantity by more than 50 percent, payment will be made per Section 3-2.2.2 or 3-2.2.3 as appropriate.

If a change is ordered in an item of work covered by a Contract Unit Price, and such change does involve a substantial change in the character of the work from that shown on the Plans or specified in the Specifications, an adjustment in payment will be made per Section 3-2.4.

3-2.2.2 Increases of More Than 50 Percent. Should the actual quantity of an item of work covered by a Contract Unit Price and constructed in conformance with the Plans and Specifications, exceed the Bid quantity by more than 50 percent, payment for the quantity in excess of 150 percent of the Bid quantity will be made on the basis of an adjustment in the Contract Unit Price mutually agreed to by the Contractor and the Agency, or at the option of the Engineer, on the basis of Extra Work per Section 3-3. The Extra Work per Section 3-3, basis of payment, shall not include fixed costs. Fixed costs shall be deemed to have been recovered by the Contractor through payment for 150 percent of the Bid quantity at the Contract Unit Price.

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- **3-2.2.3 Decreases of More Than 50 Percent.** Should the actual quantity of an item of work covered by a Contract Unit Price, and constructed in conformance with the Plans and Specifications, be less than 50 percent of the Bid quantity, an adjustment in payment will not be made unless so requested in writing by the Contractor. If the Contractor so requests, payment will be made on the basis of an adjustment in the Contract Unit Price mutually agreed to by the Contractor and the Agency, or at the option of the Engineer, on the basis of Extra Work per Section 3-3; however, in no case will payment be less than would be made for the actual quantity at the Contract Unit Price nor more than would be made for 50 percent of the Bid quantity at the Contract Unit Price.
- **3-2.3 Stipulated Unit Prices.** Stipulated Unit Prices are unit prices established by the Agency in the Contract Documents as distinguished from Contract Unit Prices submitted by the Contractor. Stipulated Unit Prices may be used for the adjustment of Contract changes when so specified in the Special Provisions.
- **3-2.4 Agreed Prices.** Agreed Prices are prices for new or unforeseen work, or adjustments in Contract Unit Prices per Section 3-2.2, established by mutual agreement between the Contractor and the Agency. If mutual agreement cannot be reached, the Engineer may direct the Contractor to proceed on the basis of Extra Work in accordance per Section 3-3, except as otherwise specified in Sections 3-2.2.2 and 3-2.2.3.
- **3.2.4.1 Schedule of Values.** Prior to construction, Contractor shall provide a schedule of values for all lump sum bid items that shall be used for the purpose of progress payments. The prices shall be valid for the purpose of change orders to the project.
- **3.2.5 Eliminated Items.** Should any Bid item be eliminated in its entirety, payment will be made to the Contractor for its actual costs incurred in connection with the eliminated item prior to notification in writing from the Engineer so stating its elimination. If material conforming to the Plans and Specifications is ordered by the Contractor for use in the eliminated item prior to the date of notification of elimination by the Engineer, and if the order for that material cannot be canceled, payment will be made to the Contractor for the actual cost of the material. In this case, the material shall become the property of the Agency. Payment will be made to the Contractor for its actual costs for any further handling. If the material is returnable, the material shall be returned and payment will be made to the Contractor for the actual cost of charges made by the supplier for returning the material and for handling by the Contractor. Actual costs, as used herein, shall be computed on the basis of Extra Work per Section 3-3.

3-3 EXTRA WORK.

3-3.1 General. New or unforeseen work will be classified as "extra work" when the Engineer determines that it is not covered by Contract Unit Prices or stipulated unit prices.

3-3.2 Payment.

3-3.2.1 General. When the price for the extra work cannot be agreed upon, the Agency will pay for the extra work based on the accumulation of costs as provided herein.

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3-3.2.2 Basis for Establishing Costs.

(a) **Labor.** The costs of labor will be the actual cost for wages of workers performing the extra work at the time the extra work is done, plus employer payments of payroll taxes, workers compensation insurance, liability insurance, health and welfare, pension, vacation, apprenticeship funds, and other direct costs, resulting from Federal, State, or local laws, as well as assessments or benefits required by lawful collective bargaining agreements.

The use of a labor classification which would increase the extra work cost will not be permitted unless the Contractor establishes the necessity for such additional costs. Labor costs for equipment operators and helpers shall be reported only when such costs are not included in the invoice for equipment rental. The labor cost for foremen shall be proportioned to all of their assigned work and only that applicable to extra work will be paid.

Nondirect labor costs, including superintendence, shall be considered part of the markup of Section 3-3.2.3 (a).

(b) **Materials.** The cost of materials reported shall be at invoice or lowest current price at which such materials are locally available and delivered to the job site in the quantities involved, plus sales tax, freight, and delivery.

The Agency reserves the right to approve materials and sources of supply, or to supply materials to the Contractor if necessary, for the progress of the Work. No markup shall be applied to any material provided by the Agency.

(c) **Tool and Equipment Rental.** No payment will be made for the use of tools which have a replacement value of \$200 or less.

Regardless of ownership, the rates and right-of-way delay factors to be used in determining rental and delay costs shall be the edition of the, "Labor Surcharge and Equipment Rental Rates" published by Caltrans, current at the time of the actual use of the tool or equipment. The right-of-way delay factors therein shall be used as multipliers of the rental rates for determining the value of costs for delay to the Contractor and subcontractors, if any. The labor surcharge rates published therein are not a part of this contract.

The rental rates paid shall include the cost of fuel, oil, lubrication, supplies, small tools, necessary attachments, repairs and maintenance of any kind, depreciation, storage, insurance, and all incidentals. Necessary loading and transportation costs for equipment used on the extra work shall be included.

If equipment is used intermittently and, when not in use, could be returned to its rental source at less expense to the Agency than holding it at the Work site, it shall be returned, unless the Contractor elects to keep it at the Work site, at no expense to the Agency.

All equipment shall be acceptable to the Engineer, in good working condition, and suitable for the purpose for which it is to be used. Manufacturer's ratings and approved modifications shall be used to classify equipment and it shall be powered by a unit of at least the minimum rating recommended by the manufacturer.



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The reported rental time for equipment already at the Work site shall be the duration of its use on the extra work. This time begins when equipment is first put into actual operation on the extra work, plus the time required to move it from its previous site and back, or to a closer site.

(d) **Other Items.** The Agency may authorize other items which may be required on the extra work, including labor, services, material, and equipment. These items must be different in their nature from those required for the Work and be of a type not ordinarily available from the Contractor or Subcontractors.

Invoices covering all such items in detail shall be submitted with the request for payment.

(e) **Invoices.** Vendors' invoices for material, equipment rental and other expenditures shall be submitted with the request for payment. If the request for payment is not substantiated by invoices or other documentation, the Agency may establish the cost of the item involved at the lowest price which was current at the time of the report.

3-3.2.3 Markup.

(a) **Work by Contractor.** The following percentages shall be added to the Contractor's costs and shall constitute the markup for all overhead and profits:

1.	Labor	. 20
2.	Materials	15
3.	Equipment Rental	15
4	Other Items and Expenditures	15

To the sum of the costs and markups provided for in this section, 1 percent shall be added as compensation for bonding.

- (b) **Work by Subcontractor.** When all or any part of the extra work is performed by a Subcontractor, the markup established in Section 3-3.2.3(a) shall be applied to the Subcontractor's actual cost of such work. A markup of 10 percent on the first \$5,000 of the subcontracted portion of the extra work and a markup of 5 percent on work added in excess of \$5,000 of the subcontracted portion of the extra work may be added by the Contractor.
- **3-3.3 Daily Reports by Contractor.** When the price for the extra work cannot be agreed upon, the Contractor shall submit a daily report to the Engineer on forms approved by the Agency. Included are applicable delivery tickets, listing all labor, materials, and equipment involved for that day, and other services and expenditures when authorized. Payment for extra work will not be made until such time that the Contractor submits completed daily reports and all supporting documents to the Engineer. Failure to submit the daily report by the close of the next working day may waive any rights for that day. An attempt shall be made to reconcile the report daily, and it shall be signed by the Engineer and the Contractor. In the event of disagreement, pertinent notes shall be entered by each party to explain points which cannot be resolved immediately. Each party shall retain a signed copy of the report. Reports by Subcontractors or others shall be submitted through the Contractor.

The report shall:

- 1. Show names of workers, classifications, and hours worked.
- 2. Describe and list quantities of materials used.

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- 3. Show type of equipment, size, identification number, and hours of operation, including loading and transportation, if applicable.
- 4. Describe other services and expenditures in such detail as the Agency may require.
- **3-4 CHANGED CONDITIONS.** The Contractor shall promptly notify the Engineer of the following work site conditions (hereinafter called changed conditions), in writing, upon their discovery and before they are disturbed:
 - 1. Subsurface or latent physical conditions differing materially from those represented in the Contract Documents;
 - 2. Unknown physical conditions of an unusual nature differing materially from those ordinarily encountered and generally recognized as inherent in work of the character being performed; and
 - 3. Material differing from that represented in the Contract which the Contractor believes may be 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.

The Engineer will promptly investigate conditions which appear to be changed conditions. If the Engineer determines that conditions are changed conditions and they will materially affect performance time, the Contractor, upon submitting a written request, will be granted an extension of time subject to the provisions of 6-6.

If the Engineer determines that the conditions do not justify an adjustment in compensation, the Contractor will be notified in writing. This notice will also advise the Contractor of its obligation to notify the Engineer in writing if the Contractor disagrees.

The Contractor's failure to give notice of changed conditions promptly upon their discovery and before they are disturbed shall constitute a waiver of all claims in connection therewith.

The Contractor shall not be entitled to the payment of any additional compensation for any act, or failure to act, by the Engineer, including failure or refusal to issue a change order, or for the happening of any event, thing, occurrence, or other cause, unless the Contractor shall have first given the Engineer due written notice of potential claim as hereinafter specified. Compliance with this section shall not be required as a prerequisite to notice provisions in Section 6-7.3 Contract Time Accounting, nor to any claim that is based on differences in measurement or errors of computation as to contract quantities. The written notice of potential claim for changed conditions shall be submitted by the Contractor to the Engineer upon their discovery and prior to the time that the Contractor performs the work giving rise to the potential claim. The Contractor's failure to give written notice of potential claim for changed conditions to the agency upon their discovery and before they are disturbed shall constitute a waiver of all claims in connection therewith.

The Contractor shall provide the City with a written document containing a description of the particular circumstances giving rise to the potential claim, the reasons for which the Contractor believes additional compensation may be due and nature of any and all costs involved within 20 working days of the date of service of the written notice of potential claim for changed conditions. Verbal notifications are disallowed.

The potential claim shall include the following certification relative to the California False Claims Act, Government Code Sections 12650-12655:

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"The undersigned certifies that the above statements are made in full cognizance of the California False Claims Act, Government Code Sections 12650-12655. The undersigned further understands and agrees that this potential claim, unless resolved, must be restated as a claim in response to the City's proposed final estimate in order for it to be further considered."

Ву:	_ Title:
Date:	-
Company Name:	

The Contractor's estimate of costs may be updated when actual costs are known. The Contractor shall submit substantiation of its actual costs to the Engineer within 20 working days after the affected work is completed. Failure to do so shall be sufficient cause for denial of any claim subsequently filed on the basis of said notice of potential claim.

It is the intention of this section that differences between the parties arising under and by virtue of the contract be brought to the attention of the Engineer at the earliest possible time in order that such matters be settled, if possible, or other appropriate action promptly taken.

3-5 DISPUTED WORK. The Contractor shall give the Agency written notice of potential claim prior to commencing any disputed work. Failure to give said notice shall constitute a waiver of all claims in connection therewith. If the Contractor and the Agency are unable to reach agreement on disputed work, the Agency may direct the Contractor to proceed with the Work.

Prior to proceeding with dispute resolution pursuant to Public Contract Code provisions specified hereinafter, the contractor shall attempt to resolve all disputes informally through the following dispute resolution chain of command:

- 1. Project Inspector
- 2. Construction Manager
- 3. Deputy City Engineer
- 4. City Engineer
- 5. Executive Manager, Carlsbad Municipal Water District

The Contractor shall submit a complete report within 20 working days after completion of the disputed work stating its position on the claim, the contractual basis for the claim, along with all documentation supporting the costs and all other evidentiary materials. At each level of claim or appeal of claim the District will, within 10 working days of receipt of said claim or appeal of claim, review the Contractor's report and respond with a position, request additional information or request that the Contractor meet and present its report. When additional information or a meeting is requested, the District will provide its position within 10 working days of receipt of said additional information or Contractor's presentation of its report. The Contractor may appeal each level's position up to the Executive Manager after which the Contractor may proceed under the provisions of the Public Contract Code.

The authority within the dispute resolution chain of command is limited to recommending a resolution to a claim to the Executive Manager. Actual approval of the claim is subject to the change order provisions in the contract.

All claims by the -Contractor shall be resolved in accordance with Public Contract Code section 9204, which is set forth below:

- 9204. (a) The Legislature finds and declares that it is in the best interests of the state and its citizens to ensure that all construction business performed on a public works project in the state that is complete and not in dispute is paid in full and in a timely manner.
- (b) Notwithstanding any other law, including, but not limited to, Article 7.1 (commencing with Section 10240) of Chapter 1 of Part 2, Chapter 10 (commencing with Section 19100) of Part 2, and Article 1.5 (commencing with Section 20104) of Chapter 1 of Part 3, this section shall apply to any claim by a contractor in connection with a public works project.
- (c) For purposes of this section:
- (1) "Claim" means a separate demand by a contractor sent by registered mail or certified mail with return receipt requested, for one or more of the following:
- (A) A time extension, including, without limitation, for relief from damages or penalties for delay assessed by a public entity under a contract for a public works project.
- (B) Payment by the public entity of money or damages arising from work done by, or on behalf of, the contractor pursuant to the contract for a public works project and payment for which is not otherwise expressly provided or to which the claimant is not otherwise entitled.
- (C) Payment of an amount that is disputed by the public entity.
- (2) "Contractor" means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who has entered into a direct contract with a public entity for a public works project.
- (3) (A) "Public entity" means, without limitation, except as provided in subparagraph (B), a state agency, department, office, division, bureau, board, or commission, the California State University, the University of California, a city, including a charter city, county, including a charter county, city and county, including a charter city and county, district, special district, public authority, political subdivision, public corporation, or nonprofit transit corporation wholly owned by a public agency and formed to carry out the purposes of the public agency.
- (B) "Public entity" shall not include the following:
- (i) The Department of Water Resources as to any project under the jurisdiction of that department.
- (ii) The Department of Transportation as to any project under the jurisdiction of that department.
- (iii) The Department of Parks and Recreation as to any project under the jurisdiction of that department.
- (iv) The Department of Corrections and Rehabilitation with respect to any project under its jurisdiction pursuant to Chapter 11 (commencing with Section 7000) of Title 7 of Part 3 of the Penal Code.
- (v) The Military Department as to any project under the jurisdiction of that department.
- (vi) The Department of General Services as to all other projects.
- (vii) The High-Speed Rail Authority.
- (4) "Public works project" means the erection, construction, alteration, repair, or improvement of any public structure, building, road, or other public improvement of any kind.
- (5) "Subcontractor" means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who either is in direct contract with a contractor or is a lower tier subcontractor.
- (d) (1) (A) Upon receipt of a claim pursuant to this section, the public entity to which the claim applies shall conduct a reasonable review of the claim and, within a period not to exceed 45 days, shall provide the claimant a written statement identifying what portion of the claim is



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disputed and what portion is undisputed. Upon receipt of a claim, a public entity and a contractor may, by mutual agreement, extend the time period provided in this subdivision.

- (B) The claimant shall furnish reasonable documentation to support the claim.
- (C) If the public entity needs approval from its governing body to provide the claimant a written statement identifying the disputed portion and the undisputed portion of the claim, and the governing body does not meet within the 45 days or within the mutually agreed to extension of time following receipt of a claim sent by registered mail or certified mail, return receipt requested, the public entity shall have up to three days following the next duly publicly noticed meeting of the governing body after the 45-day period, or extension, expires to provide the claimant a written statement identifying the disputed portion and the undisputed portion.
- (D) Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. If the public entity fails to issue a written statement, paragraph (3) shall apply.
- (2) (A) If the claimant disputes the public entity's written response, or if the public entity fails to respond to a claim issued pursuant to this section within the time prescribed, the claimant may demand in writing an informal conference to meet and confer for settlement of the issues in dispute. Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, the public entity shall schedule a meet and confer conference within 30 days for settlement of the dispute.
- (B) Within 10 business days following the conclusion of the meet and confer conference, if the claim or any portion of the claim remains in dispute, the public entity shall provide the claimant a written statement identifying the portion of the claim that remains in dispute and the portion that is undisputed. Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. Any disputed portion of the claim, as identified by the contractor in writing, shall be submitted to nonbinding mediation, with the public entity and the claimant sharing the associated costs equally. The public entity and claimant shall mutually agree to a mediator within 10 business days after the disputed portion of the claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the claim. Each party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the claim remaining in dispute shall be subject to applicable procedures outside this section.
- (C) For purposes of this section, mediation includes any nonbinding process, including, but not limited to, neutral evaluation or a dispute review board, in which an independent third party or board assists the parties in dispute resolution through negotiation or by issuance of an evaluation. Any mediation utilized shall conform to the timeframes in this section.
- (D) Unless otherwise agreed to by the public entity and the contractor in writing, the mediation conducted pursuant to this section shall excuse any further obligation under Section 20104.4 to mediate after litigation has been commenced.
- (E) This section does not preclude a public entity from requiring arbitration of disputes under private arbitration or the Public Works Contract Arbitration Program, if mediation under this section does not resolve the parties' dispute.
- (3) Failure by the public entity to respond to a claim from a contractor within the time periods described in this subdivision or to otherwise meet the time requirements of this section shall result in the claim being deemed rejected in its entirety. A claim that is denied by reason of the public entity's failure to have responded to a claim, or its failure to otherwise meet the time requirements of this section, shall not constitute an adverse finding with regard to the merits of the claim or the responsibility or qualifications of the claimant.
- (4) Amounts not paid in a timely manner as required by this section shall bear interest at 7 percent per annum.



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- (5) If a subcontractor or a lower tier subcontractor lacks legal standing to assert a claim against a public entity because privity of contract does not exist, the contractor may present to the public entity a claim on behalf of a subcontractor or lower tier subcontractor. A subcontractor may request in writing, either on his or her own behalf or on behalf of a lower tier subcontractor, that the contractor present a claim for work which was performed by the subcontractor or by a lower tier subcontractor on behalf of the subcontractor. The subcontractor requesting that the claim be presented to the public entity shall furnish reasonable documentation to support the claim. Within 45 days of receipt of this written request, the contractor shall notify the subcontractor in writing as to whether the contractor presented the claim to the public entity and, if the original contractor did not present the claim, provide the subcontractor with a statement of the reasons for not having done so.
- (e) The text of this section or a summary of it shall be set forth in the plans or specifications for any public works project that may give rise to a claim under this section.
- (f) A waiver of the rights granted by this section is void and contrary to public policy, provided, however, that (1) upon receipt of a claim, the parties may mutually agree to waive, in writing, mediation and proceed directly to the commencement of a civil action or binding arbitration, as applicable; and (2) a public entity may prescribe reasonable change order, claim, and dispute resolution procedures and requirements in addition to the provisions of this section, so long as the contractual provisions do not conflict with or otherwise impair the timeframes and procedures set forth in this section.
- (g) This section applies to contracts entered into on or after January 1, 2017.
- (h) Nothing in this section shall impose liability upon a public entity that makes loans or grants available through a competitive application process, for the failure of an awardee to meet its contractual obligations.
- (i) This section shall remain in effect only until January 1, 2020, and as of that date is repealed, unless a later enacted statute, that is enacted before January 1, 2020, deletes or extends that date.

In addition, all claims by Contractor for \$375,000 or less shall be resolved in accordance with the procedures in the Public Contract Code, Division 2, Part 3, Chapter 1, Article 1.5 (commencing with Section 20104) which is set forth below

ARTICLE 1.5 RESOLUTION OF CONSTRUCTION CLAIMS

- **20104.** (a)(1) This article applies to all public works claims of three hundred seventy-five thousand dollars (\$375,000) or less which arise between a contractor and a local agency.
- (2) This article shall not apply to any claims resulting from a contract between a contractor and a public agency when the public agency has elected to resolve any disputes pursuant to Article 7.1 (commencing with Section 10240) of Chapter 1 of Part 2.
- (b)(1) "Public work" has the same meaning as in Sections 3100 and 3106 of the Civil Code, except that "public work" does not include any work or improvement contracted for by the state or the Regents of the University of California.
- (2) "Claim" means a separate demand by the contractor for (A) a time extension, (B) payment of money or damages arising from work done by, or on behalf of, the contractor pursuant to the contract for a public work and payment of which is not otherwise expressly provided for or the

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claimant is not otherwise entitled to, or (C) an amount the payment of which is disputed by the local agency.

- (c) The provisions of this article or a summary thereof shall be set forth in the plans or specifications for any work which may give rise to a claim under this article.
- (d) This article applies only to contracts entered into on or after January 1, 1991.

20104.2. For any claim subject to this article, the following requirements apply:

- (a) The claim shall be in writing and include the documents necessary to substantiate the claim. Claims must be filed on or before the date of final payment. Nothing in this subdivision is intended to extend the time limit or supersede notice requirements otherwise provided by contract for the filing of claims.
- (b)(1) For claims of less than fifty thousand dollars (\$50,000), the local agency shall respond in writing to any written claim within 45 days of receipt of the claim, or may request, in writing, within 30 days of receipt of the claim, any additional documentation supporting the claim or relating to defenses to the claim the local agency may have against the claimant.
- (2) If additional information is thereafter required, it shall be requested and provided pursuant to this subdivision, upon mutual agreement of the local agency and the claimant.
- (3) The local agency's written response to the claim, as further documented, shall be submitted to the claimant within 15 days after receipt of the further documentation or within a period of time no greater than that taken by the claimant in producing the additional information, whichever is greater.
- (c)(1) For claims of over fifty thousand dollars (\$50,000) and less than or equal to three hundred seventy-five thousand dollars (\$375,000), the local agency shall respond in writing to all written claims within 60 days of receipt of the claim, or may request, in writing, within 30 days of receipt of the claim, any additional documentation supporting the claim or relating to defenses to the claim the local agency may have against the claimant.
- (2) If additional information is thereafter required, it shall be requested and provided pursuant to this subdivision, upon mutual agreement of the local agency and the claimant.
- (3) The local agency's written response to the claim, as further documented, shall be submitted to the claimant within 30 days after receipt of the further documentation, or within a period of time no greater than that taken by the claimant in producing the additional information or requested documentation, whichever is greater.
- (d) If the claimant disputes the local agency's written response, or the local agency fails to respond within the time prescribed, the claimant may so notify the local agency, in writing, either within 15 days of receipt of the local agency's response or within 15 days of the local agency's failure to respond within the time prescribed, respectively, and demand an informal conference to meet and confer for settlement of the issues in dispute. Upon a demand, the local agency shall schedule a meet and confer conference within 30 days for settlement of the dispute.
- (e) Following the meet and confer conference, if the claim or any portion remains in dispute, the claimant may file a claim as provided in Chapter 1 (commencing with Section 900) and Chapter 2 (commencing with Section 910) of Part 3 of Division 3.6 of Title 1 of the Government Code. For purposes of those provisions, the running of the period of time within which a claim must be filed shall be tolled from the time the claimant submits his or her written claim pursuant to subdivision (a) until the time that claim is denied as a result of the meet and confer process, including any period of time utilized by the meet and confer process.
- (f) This article does not apply to tort claims and nothing in this article is intended nor shall be construed to change the time periods for filing tort claims or actions specified by Chapter 1 (commencing with Section 900) and Chapter 2 (commencing with Section 910) of Part 3 of Division 3.6 of Title 1 of the Government Code.



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- **20104.4.** The following procedures are established for all civil actions filed to resolve claims subject to this article:
- (a) Within 60 days, but no earlier than 30 days, following the filing or responsive pleadings, the court shall submit the matter to non-binding mediation unless waived by mutual stipulation of both parties. The mediation process shall provide for the selection within 15 days by both parties of a disinterested third person as mediator, shall be commenced within 30 days of the submittal, and shall be concluded within 15 days from the commencement of the mediation unless a time requirement is extended upon a good cause showing to the court or by stipulation of both parties. If the parties fail to select a mediator within the 15-day period, any party may petition the court to appoint the mediator.
- (b)(1) If the matter remains in dispute, the case shall be submitted to judicial arbitration pursuant to Chapter 2.5 (commencing with Section 1141.10) of Title 3 of Part 3 of the Code of Civil Procedure, notwithstanding Section 1141.11 of that code. The Civil Discovery Act of 1986 (Article 3 (commencing with Section 2016) of Chapter 3 of Title 3 of Part 4 of the Code of Civil procedure) shall apply to any proceeding brought under the subdivision consistent with the rules pertaining to judicial arbitration.
- (2) Notwithstanding any other provision of law, upon stipulation of the parties, arbitrators appointed for purposes of this article shall be experienced in construction law, and, upon stipulation of the parties, mediators and arbitrators shall be paid necessary and reasonable hourly rates of pay not to exceed their customary rate, and such fees and expenses shall be paid equally by the parties, except in the case of arbitration where the arbitrator, for good cause, determines a different division. In no event shall these fees or expenses be paid by state or county funds.
- (3) In addition to Chapter 2.5 (commencing with Section 1141.10) Title 3 of Part 3 of the Code of Civil Procedure, any party who after receiving an arbitration award requests a trial de novo but does not obtain a more favorable judgment shall, in addition to payment of costs and fees under that chapter, pay the attorney's fees of the other party arising out of the trial de novo.
- (c) The court may, upon request by any party, order any witnesses to participate in the mediation or arbitration process.
- **20104.6.** (a) No local agency shall fail to pay money as to any portion of a claim which is undisputed except as otherwise provided in the contract.
- (b) In any suit filed under Section 20104.4, the local agency shall pay interest at the legal rate on any arbitration award or judgment. The interest shall begin to accrue on the date the suit is filed in a court of law.

Although not to be construed as proceeding under extra work provisions, the Contractor shall keep and furnish records of disputed work in accordance with Section 3-3.



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SECTION 4 – CONTROL OF MATERIALS

4-1 MATERIALS AND WORKMANSHIP.

4-1.1. General. All materials, parts, and equipment furnished by the Contractor in the Work shall be new, high grade, and free from defects. Quality of work shall be in accordance with the generally accepted standards. Material and work quality shall be subject to the Engineer's approval.

Materials and work quality not conforming to the requirements of the Specifications shall be considered defective and will be subject to rejection. Defective work or material, whether in place or not, shall be removed immediately from the site by the Contractor, at its expense, when so directed by the Engineer.

If the Contractor fails to replace any defective or damaged work or material after reasonable notice, the Engineer may cause such work or materials to be replaced. The replacement expense will be deducted from the amount to be paid to the Contractor.

Used or secondhand materials, parts, and equipment may be used only if permitted by the Specifications.

4-1.2 Protection of Work and Materials. The Contractor shall provide and maintain storage facilities and employ such measures as will preserve the specified quality and fitness of materials to be used in the Work. Stored materials shall be reasonably accessible for inspection. The Contractor shall also adequately protect new and existing work and all items of equipment for the duration of the Contract.

The Contractor shall not, without the Agency's consent, assign, sell, mortgage, hypothecate, or remove equipment or materials which have been installed or delivered and which may be necessary for the completion of the Contract.

4-1.3 Inspection Requirements.

4-1.3.1 General. Unless otherwise specified, inspection is required at the source for such typical materials and fabricated items as bituminous paving mixtures, structural concrete, metal fabrication, metal casting, welding, concrete pipe manufacture, protective coating application, and similar shop or plant operations.

Steel pipe in sizes less than 6 inches and vitrified clay and cast-iron pipe in all sizes are acceptable upon certification as to compliance with the Specifications, subject to sampling and testing by the Agency. Standard items of equipment such as electric motors, conveyors, elevators, plumbing fixtures, etc., are subject to inspection at the job site only. Special items of equipment such as designed electrical panel boards, large pumps, sewage plant equipment, etc., are subject to inspection at the source, normally only for performance testing. The Specifications may require inspection at the source for other items not typical of those listed in this section.

The Contractor shall provide the Engineer free and safe access to any and all parts of work at any time. Such free and safe access shall include means of safe access and egress, ventilation, lighting, shoring, dewatering and all elements pertaining to the safety of persons as contained in

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the State of California, California Code of Regulations, Title 8, Industrial Relations, Chapter 4, Division of Industrial Safety, Subchapter 4, Construction Safety Orders and such other safety regulations as may apply. Contractor shall furnish Engineer with such information as may be necessary to keep the Engineer fully informed regarding progress and manner of work and character of materials. Inspection or testing of the whole or any portion of the work or materials incorporated in the work shall not relieve Contractor from any obligation to fulfill this Contract.

- **4-1.3.2** Inspection of Materials Not Locally Produced. When the Contractor intends to purchase materials, fabricated products, or equipment from sources located more than 50 miles outside the geographical limits of the Agency, an inspector or accredited testing laboratory (approved by the Engineer), shall be engaged by the Contractor at its expense, to inspect the materials, equipment or process. This approval shall be obtained before producing any material or equipment. The inspector or representative of the testing laboratory shall judge the materials by the requirements of the Plans and Specifications. The Contractor shall forward reports required by the Engineer. No material or equipment shall be shipped nor shall any processing, fabrication or treatment of such materials be done without proper inspection by the approved agent. Approval by said agent shall not relieve the Contractor of responsibility for complying with the Contract requirements.
- **4-1.3.3 Inspection by the Agency.** The Agency will provide all inspection and testing laboratory services within 50 miles of the geographical limits of the Agency. For private contracts, all costs of inspection at the source, including salaries and mileage costs, shall be paid by the permittee.
- **4-1.4 Test of Material.** Before incorporation in the Work, the Contractor shall submit samples of materials, as the Engineer may require, at no cost to the Agency. The Contractor, at its expense, shall deliver the materials for testing to the place and at the time designated by the Engineer. Unless otherwise provided, all initial testing will be performed under the direction of the Engineer, and at no expense to the Contractor. If the Contractor is to provide and pay for testing, it will be stated in the Specifications. For private contracts, the testing expense shall be borne by the permittee.

The Contractor shall notify the Engineer in writing, at least 15 days in advance, of its intention to use materials for which tests are specified, to allow sufficient time to perform the tests. The notice shall name the proposed supplier and source of material.

If the notice of intent to use is sent before the materials are available for testing or inspection or is sent so far in advance that the materials on hand at the time will not last but will be replaced by a new lot prior to use on the Work, it will be the Contractor's responsibility to renotify the Engineer when samples which are representative may be obtained.

Except as specified in these Provisions, the Agency will bear the cost of testing of locally produced materials and/or on-site workmanship where the results of such tests meet or exceed the requirements indicated in the Standard Specifications, Technical Specification, and any Supplemental Provisions. The cost of all other tests shall be borne by the Contractor.

At the option of the Engineer, the source of supply of each of the materials shall be approved by the Engineer before the delivery is started. All materials proposed for use may be inspected or tested at any time during their preparation and use. If, after incorporating such materials into the Work, it is found that sources of supply that have been approved do not furnish a uniform product, or if the product from any source proves unacceptable at any time, the Contractor shall

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furnish approved material from other approved sources. If any product proves unacceptable after improper storage, handling or for any other reason it shall be rejected, not incorporated into the work and shall be removed from the project site all at the Contractor's expense.

Compaction tests may be made by the Engineer and all costs for tests that meet or exceed the requirements of the specifications shall be borne by the Agency. Said tests may be made at any place along the work as deemed necessary by the Engineer. The costs of any retests made necessary by noncompliance with the specifications shall be borne by the Contractor.

- **4-1.5 Certification.** The Engineer may waive materials testing requirements of the Specifications and accept the manufacturer's written certification that the materials to be supplied meet those requirements. Material test data may be required as part of the certification.
- **4-1.6 Trade Names or Equals.** The Contractor may supply any of the materials specified or offer an equivalent. The Engineer shall determine whether the material offered is equivalent to that specified. Adequate time shall be allowed for the Engineer to make this determination.

Whenever any particular material, process, or equipment is indicated by patent, proprietary or brand name, or by name of manufacturer, such wording is used for the purpose of facilitating its description and shall be deemed to be followed by the words "**or equal**". A listing of materials is not intended to be comprehensive, or in order of preference. The Contractor may offer any material, process, or equipment considered to be equivalent to that indicated. The substantiation of offers shall be submitted as provided in the Contract Documents.

The Contractor shall, at its expense, furnish data concerning items offered by it as equivalent to those specified. The Contractor shall have the material tested as required by the Engineer to determine that the quality, strength, physical, chemical, or other characteristics, including durability, finish, efficiency, dimensions, service, and suitability are such that the item will fulfill its intended function.

Test methods shall be subject to the approval of the Engineer. Test results shall be reported promptly to the Engineer, who will evaluate the results and determine if the substitute item is equivalent. The Engineer's findings shall be final. Installation and use of a substitute item shall not be made until approved by the Engineer.

If a substitute offered by the Contractor is not found to be equal to the specified material, the Contractor shall furnish and install the specified material.

The specified Contract completion time shall not be affected by any circumstance developing from the provisions of this section.

The Contractor is responsible for the satisfactory performance of substituted items. If, in the sole opinion of the Engineer, the substitution is determined to be unsatisfactory in performance, appearance, durability, compatibility with associated items, availability of repair parts and suitability of application the Contractor shall remove the substituted item and replace it with the originally specified item at no cost to the Agency.

4-1.7 Weighing and Metering Equipment. All scales and metering equipment used for proportioning materials shall be inspected for accuracy and certified within the past 12 months by the State of California Bureau of Weights and Measures, by the County Director or Sealer of Weights and Measures, or by a scale mechanic registered with or licensed by the County.

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The accuracy of the work of a scale service agency, except as stated herein, shall meet the standards of the California Business and Professions Code and the California Code of Regulations pertaining to weighing devices. A certificate of compliance shall be presented, prior to operation, to the Engineer for approval and shall be renewed whenever required by the Engineer at no cost to the Agency.

All scales shall be arranged so they may be read easily from the operator's platform or area. They shall indicate the true net weight without the application of any factor. The figures of the scales shall be clearly legible. Scales shall be accurate to within 1 percent when tested with the plant shut down. Weighing equipment shall be so insulated against vibration or moving of other operating equipment in the plant area that the error in weighing with the entire plant running will not exceed 2 percent for any setting nor 1.5 percent for any batch.

- **4-1.8 Calibration of Testing Equipment.** Testing equipment, such as, but not limited to pressure gages, metering devices, hydraulic systems, force (load) measuring instruments, and strain-measuring devices shall be calibrated by a testing agency acceptable to the Engineer at intervals not to exceed 12 months and following repairs, modification, or relocation of the equipment. Calibration certificates shall be provided when requested by the Engineer.
- 4-1.9 Construction Materials Dispute Resolution (Soils, Rock Materials, Concrete, Mortar and Related Materials, Masonry Materials, Bituminous Materials, Rock Products, and Modified Asphalts). In the interest of safety and public value, whenever credible evidence arises to contradict the test values of materials, the Agency and the Contractor will initiate an immediate and cooperative investigation. Test values of materials are results of the materials' tests, as defined by these Specifications or by the special provisions, required to accept the Work. Credible evidence is process observations or test values gathered using industry accepted practices. A contradiction exists whenever test values or process observations of the same or similar materials are diverse enough such that the work acceptance or performance becomes suspect. The investigation shall allow access to all test results, procedures, and facilities relevant to the disputed work and consider all available information and, when necessary, gather new and additional information in an attempt to determine the validity, the cause, and if necessary, the remedy to the contradiction. If the cooperative investigation reaches any resolution mechanism acceptable to both the Agency and the Contractor, the contradiction shall be considered resolved and the cooperative investigation concluded. Whenever the cooperative investigation is unable to reach resolution, the investigation may then either conclude without resolution or continue by written notification of one party to the other requesting the implementation of a resolution process by committee. The continuance of the investigation shall be contingent upon recipient's agreement and acknowledged in writing within 3 calendar days after receiving a request. Without acknowledgement, the investigation shall conclude without resolution. The committee shall consist of three State of California Registered Civil Engineers. Within 7 calendar days after the written request notification, the Agency and the Contractor will each select one engineer. Within 14 calendar days of the written request notification, the two selected engineers will select a third engineer. The goal in selection of the third member is to complement the professional experience of the first two engineers. Should the two engineers fail to select the third engineer, the Agency and the Contractor shall each propose 2 engineers to be the third member within 21 calendar days after the written request notification. The first two engineers previously selected shall then select one of the four proposed engineers in a blind draw. The committee shall be a continuance of the cooperative investigation and will re-consider all available information and if necessary, gather new and additional information to determine the validity, the cause, and if necessary, the remedy to the contradiction. The committee will focus upon the performance adequacy of the material(s) using



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standard engineering principles and practices and to ensure public value, the committee may provide engineering recommendations as necessary. Unless otherwise agreed, the committee will have 30 calendar days from its formation to complete their review and submit their findings. The final resolution of the committee shall be by majority opinion, in writing, stamped and signed. Should the final resolution not be unanimous, the dissenter may attach a written, stamped, and signed minority opinion. Once started, the resolution process by committee shall continue to full conclusion unless:

- 1. Within 7 days of the formation of the committee, the Agency and the Contractor reach an acceptable resolution mechanism; or
- 2. Within 14 days of the formation of the committee, the initiating party withdraws its written notification and agrees to bear all investigative related costs thus far incurred; or
- 3. At any point by the mutual agreement of the Agency and the Contractor. Unless otherwise agreed, the Contractor shall bear and maintain a record for all the investigative costs until resolution. Should the investigation discover assignable causes for the contradiction, the assignable party, the Agency or the Contractor, shall bear all costs associated with the investigation. Should assignable causes for the contradiction extended to both parties, the investigation will assign costs cooperatively with each party or when necessary, equally. Should the investigation substantiate a contradiction without assignable cause, the investigation will assign costs cooperatively with each party or when necessary, equally. Should the investigation be unable to substantiate a contradiction, the initiator of the investigation shall bear all investigative costs. All claim notification requirements of the contract pertaining to the contradiction shall be suspended until the investigation is concluded.
- 4-2 MATERIALS TRANSPORTATION, HANDLING AND STORAGE. The Contractor shall order, purchase, transport, coordinate delivery, accept delivery, confirm the quantity and quality received, prepare storage area(s), store, handle, protect, move, relocate, remove and dispose excess of all materials used to accomplish the Work. Materials shall be delivered to the site of the work only during working hours, as defined in Section 6-7.2, and shall be accompanied by bills of lading that shall clearly state for each delivery: the name of the Contractor as consignee, the project name and number, address of delivery and name of consignor and a description of the material(s) shipped. Prior to storage of any materials which have been shipped to or by the Contractor to any location within the Agency's boundaries the Contractor shall provide the Engineer a copy of lease agreements for each property where such materials are stored. The lease agreement shall clearly state the term of the lease, the description of materials allowed to be stored and shall provide for the removal of the materials and restoration of the storage site within the time allowed for the Work. All such storage shall conform to all laws and ordinances that may pertain to the materials stored and to preparation of the storage site and the location of the site on which the materials are stored. Loss, damage or deterioration of all stored materials shall be the Contractor's responsibility. Conformance to the requirements of this section, both within and outside the limits of work are a part of the Work. The Engineer shall have the right to verify the suitability of materials and their proper storage at any time during the Work.

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SECTION 5 – UTILITIES

5-1 LOCATION. The Agency and affected utility companies have, by a search of known records, endeavored to locate and indicate on the Plans, all utilities which are known to exist within the limits of the work. However, the accuracy and/or completeness of the nature, size and/or location of utilities indicated on the Plans is not guaranteed.

Where underground main distribution conduits such as water, gas, sewer, electric power, telephone, or cable television are shown on the Plans, the Contractor shall assume that every property parcel will be served by a service connection for each type of utility.

As provided in Section 4216 of the California Government Code, at least 2 working days prior to commencing any excavation, the Contractor shall contact the regional notification center (Underground Service Alert of Southern California) and obtain an inquiry identification number.

The California Department of Transportation is not required by Section 4216 to become a member of the regional notification center. The Contractor shall contact it for location of its subsurface installations.

Prior to pipeline excavation, the Contractor shall verify the findings of the report and all locations and depths of utilities which are shown by the Contract Documents or have been marked by the utility owners within the proposed trench zone. The Contractor shall pothole all service connections, utilities that cross or parallel (within 5 feet) the proposed construction, and all connection points to existing utilities. The Contractor shall record the material size (outside diameter), type, and horizontal and vertical locations (bearing and slope) and submit the data and allow time for the Engineer's review in accordance with Section 2-5.3.

The Contractor shall verify the utility layout per this Section. Full compensation for such work shall be considered included in the bid item of work requiring the potholing and no separate payment shall be made therefor.

5-2 PROTECTION. The Contractor shall not interrupt the service function or disturb the support of any utility without authority from the owner or order from the Agency. All valves, switches, vaults, and meters shall be maintained readily accessible for emergency shutoff.

Where protection is required to ensure support of utilities located as shown on the Plans or in accordance with Section 5-1, the Contractor shall, unless otherwise provided, furnish and place the necessary protection at its expense.

Upon learning of the existence and location of any utility omitted from or shown incorrectly on the Plans, the Contractor shall immediately notify the Engineer in writing. When authorized by the Engineer, support or protection of the utility will be paid for as provided in Section 3-2.2.3 or 3-3.

The Contractor shall immediately notify the Engineer and the utility owner if any utility is disturbed or damaged. The Contractor shall bear the costs of repair or replacement of any utility damaged if located as noted in Section 5-1.

When placing concrete around or contiguous to any non-metallic utility installation, the Contractor shall at its expense:



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- 1. Furnish and install a 2-inch cushion of expansion joint material or other similar resilient material: or
- 2. Provide a sleeve or other opening which will result in a 2-inch minimum-clear annular space between the concrete and the utility; or
- 3. Provide other acceptable means to prevent embedment in or bonding to the concrete.

Where concrete is used for backfill or for structures which would result in embedment, or partial embedment, of a metallic utility installation; or where the coating, bedding or other cathodic protection system is exposed or damaged by the Contractor's operations, the Contractor shall notify the Engineer and arrange to secure the advice of the affected utility owner regarding the procedures required to maintain or restore the integrity of the system.

5-3 REMOVAL. Unless otherwise specified, the Contractor shall remove all interfering portions of utilities shown on the Plans or indicated in the Bid documents as "abandoned" or "to be abandoned in place". Before starting removal operations, the Contractor shall ascertain from the Agency whether the abandonment is complete, and the costs involved in the removal and disposal shall be included in the Bid for the items of work necessitating such removals.

The costs involved in the removal and disposal shall be considered incidental to the bid items of work necessitating such removals and no separate payment shall be made therefor, unless a bid item for "Removal" is specifically included in the bid proposal.

5-4 RELOCATION. When feasible, the owners responsible for utilities within the area affected by the Work will complete their necessary installations, relocations, repairs, or replacements before commencement of work by the Contractor. When the Plans or Specifications indicate that a utility installation is to be relocated, altered, or constructed by others, the Agency will conduct all negotiations with the owners and work will be done at no cost to the Contractor, except for manhole frame and cover sets to be brought to grade as directed and approved by the City. Utilities which are relocated in order to avoid interference shall be protected in their position and the cost of such protection shall be included in the Bid for the items of work necessitating such relocation.

After award of the Contract, portions of utilities which are found to interfere with the Work will be relocated, altered or reconstructed by the owners, or the Engineer may order changes in the Work to avoid interference. Such changes will be paid for in accordance with Section 3-2.

When the Plans or Specifications provide for the Contractor to alter, relocate, or reconstruct a utility, all costs for such work shall be included in the Bid for the items of work necessitating such work. Temporary or permanent relocation or alteration of utilities requested by the Contractor for its convenience shall be its responsibility and it shall make all arrangements and bear all costs.

The utility owner will relocate service connections as necessary within the limits of the Work or within temporary construction or slope easements. 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 a meter and the limits of temporary construction or slope easements. The relocation of such service connections will be paid for in accordance with provisions of Section 3-3. Payment will include the restoration of all existing improvements which may be affected thereby. The Contractor may agree with the owner of any utility to disconnect and reconnect interfering service connections. The Agency will not be involved in any such agreement.

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In conformance with Section 5-6 the Contractor shall coordinate the work with utility agencies and companies. Prior to the installation of any and all utility structures within the limits of work by any utility agency or company, or its contractor, the Contractor shall place all curb or curb and gutter that is a part of the work and adjacent to the location where such utility structures are shown on the plans and are noted as being located, relocated or are otherwise shown as installed by others. In order to minimize delays to the Contractor caused by the failure of other parties to relocate utilities that interfere with the construction, the Contractor, upon the Engineer's approval, may be permitted to temporarily omit the portion of work affected by the utility. If such temporary omission is approved by the Engineer, the Contractor shall place survey or other physical control markers sufficient to locate the curb or curb and gutter to the satisfaction of the utility agency or company. Such temporary omission shall be for the Contractor's convenience and no additional compensation will be allowed therefore or for additional work, materials or delay associated with the temporary omission. The portion thus omitted shall be constructed by the Contractor immediately following the relocation of the utility involved unless otherwise directed by the Engineer.

5-5 DELAYS. The Contractor shall notify the Engineer of its construction schedule insofar as it affects the protection, removal, or relocation of utilities. Said notification shall be included as a part of the construction schedule required in Section 6-1. The Contractor shall notify the Engineer in writing of any subsequent changes in the construction schedule which will affect the time available for protection, removal, or relocation of utilities.

The Contractor will not be entitled to damages or additional payment for delays attributable to utility relocations or alterations if correctly located, noted, and completed in accordance with Section 5-1.

The Contractor may be given an extension of time for unforeseen delays attributable to unreasonably protracted interference by utilities in performing work correctly shown on the Plans.

The Agency will assume responsibility for the timely removal, relocation, or protection of existing main or trunkline utility facilities within the area affected by the Work if such utilities are not identified in the Contract Documents. The Contractor will not be assessed liquidated damages for any delay caused by failure of Agency to provide for the timely removal, relocation, or protection of such existing facilities.

If the Contractor sustains loss due to delays attributable to interferences, relocations, or alterations not covered by Section 5-1, which could not have been avoided by the judicious handling of forces, equipment, or plant, there shall be paid to the Contractor such amount as the Engineer may find to be fair and reasonable compensation for such part of the Contractor's actual loss as was unavoidable and the Contractor may be granted an extension of time.

5-6 COOPERATION. When necessary, the Contractor shall so conduct its operations as to permit access to the Work site and provide time for utility work to be accomplished during the progress of the Work. Cooperation with CMWD and City staff will be required for all work affecting existing utility systems or facilities and prior to water utility shutdowns, testing and inspections, and project completion.



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SECTION 6 – PROSECUTION, PROGRESS, AND ACCEPTANCE OF THE WORK

- **6-1 CONSTRUCTION SCHEDULE AND COMMENCEMENT OF WORK.** Except as otherwise provided herein and unless otherwise prohibited by permits from other agencies as may be required by law the Contractor shall begin work within ten (10) calendar days after receipt of the "Notice to Proceed".
- **6-1.1 Pre-Construction Meeting.** After, or upon, notification of contract award, the Engineer will set the time and location for the Preconstruction Meeting. Attendance of the Contractor's management personnel responsible for the management, administration, and execution of the project is mandatory for the meeting to be convened. Failure of the Contractor to have the Contractor's responsible project personnel attend the Preconstruction Meeting will be grounds for default by Contractor per Section 6-4. No separate payment will be made for the Contractor's attendance at the meeting. The notice to proceed will only be issued on or after the completion of the preconstruction meeting.
- **6-1.1.1 Baseline Construction Schedule.** The Contractor shall prepare the Baseline Construction Schedule as a Critical Path Method (CPM) Schedule in the precedence diagram method (activity-on-node) format and submit the schedule in accordance with 2-5.3. The schedule shall:
 - A. Be prepared using a commercially available, Windows compatible software program, "Suretrak" by Primavera or "Project" by Microsoft Corporation or approved equal.
 - B. Be prepared in hard copy (paper) and electronic (Adobe PDF) format and free of file locking, encryption or any other protocol that would impede full access to the data and labeled with the project name and number, the Contractor's name and the date of preparation.
 - C. Begin with the date projected for the Notice to Proceed and conclude with the date of final completion conforming with the Contract time.
 - D. Depict a time-scaled network diagram of all activities, logic relationships of interdependent activities, and milestones comprising the complete period of Work with tasks on the vertical axis and their durations on the horizontal axis. Use distinctive texture patterns or line types to show the critical path within the Contract time. Include a tabular listing of each activity and its identification number, description, duration, early start, early finish, late start, late finish, total float, and all predecessor and successor activities. The number of activities will communicate the Contractor's plan for project execution, accurately describe the project work and allow monitoring and evaluation of progress and time impacts. Activity descriptions shall accurately define the work planned for the activity. Activity durations shall not be shorter than 1 working day or longer than 15 working days unless approved by the Engineer.
 - E. Include detail of all project phasing, staging and sequencing including all milestones necessary to define beginning and ending of each phase or stage and constraints which may impact any activity. Include time allowances for coordination with utility companies and other agencies, equipment and material deliveries, submittal reviews and approvals,

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traffic control setup and phasing, Work performed by others, inspections, testing and commissioning, corrective work, and any non-work periods.

Float or slack time within the schedule is available without charge or compensation to whatever party or contingency first exhausts it. A schedule which shows a project duration longer than the Contract Time will not be acceptable and will be grounds to consider the Contractor in default of the Contract per 6-4.

The Engineer may choose to accept the Contractor's proposal of a project duration which is shorter than the Contract time provided the shortened Baseline Construction Schedule is reasonable and demonstrates, to the satisfaction of the Engineer, that the Agency and all other entities, public and private, which interface with the project are able to support the provisions of the shortened schedule. Acceptance of a shortened Baseline Construction Schedule will be confirmed through the execution of a Change Order revising the Contract time.

The Engineer's approval of the Baseline Construction Schedule is a condition precedent to issuance of the Notice to Proceed. If the schedule does not meet the requirements of these specifications, the Contractor shall revise the schedule and resubmit it to the Engineer. Failure to obtain the Engineer's approval of the schedule within fifteen (15) working days after the date of the preconstruction meeting shall be grounds to consider the Contractor in default of the Contract per 6-4. The number of working days used by the Engineer to review the initial Baseline Construction Schedule submittal will not be included in the 15 working days. The Engineer shall complete subsequent reviews of the revised schedule and progress updates within 5 working days of receipt. The Engineer's response to each review will consist of one of the following:

"Accepted." The Contractor may proceed with the Work upon issuance of the Notice to Proceed. Payment for the schedule may be requested by the Contractor.

"Accepted with Comments." The Contractor may proceed with the Work upon issuance of the Notice to Proceed. The Contractor must revise and resubmit the schedule and receive the Engineer's acceptance of the schedule before payment for the schedule is requested by the Contractor.

"Not Accepted." The Contractor may not proceed with the Work, must revise and resubmit the schedule and may not request payment for the schedule.

6-1.1.2 Schedule Updates and Revisions. The Contractor shall meet with the Engineer during the last week of each month to agree upon the completion level of each activity as a basis for progress payments. Schedule updates shall conform with the requirements for the initial submittal in 6-1.1.1 and shall:

- A. Show the actual dates of each activity start and/or finish during the month. The schedule update shall include specific notation for any changes in actual dates after they are first reported.
- B. Report the percent complete for each activity in progress at the end of the month as determined by the Engineer.



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- C. Include a list and explanation of all changes made to the activities, dates or interconnecting logic.
- D. Include activity and network revisions reflecting the Change Orders approved in the previous month as agreed upon during the review and acceptance of the Change Orders.

The Engineer's responses to the progress schedule updates shall be as described in 6-1.1.1. The Contractor shall proceed with Work and request payment for the progress schedule updates as described therein.

If the Contractor fails to submit the progress schedule updates as required herein, the Contractor may elect to proceed with the Work at its own risk and shall forfeit payment for the progress schedule update until compliance is met. If the Contractor elects to delay or cease Work after failure to submit the progress schedule updates, any resulting delay, impact, or disruption to the Work will be the Contractor's responsibility.

- **6-1.1.3 Interim Revisions.** Should the actual or projected progress of the Work exceed 5 percent of the Contract Time, the Contractor shall prepare and submit a revised Baseline Construction Schedule independently of and prior to the next progress schedule update with a list and explanation of each change made to the schedule. The submittal, schedule review and acceptance requirements of 6-1.1.2 shall apply,
- **6-1.1.4 Late Completion or Milestone Dates.** If a schedule update indicates a completion date later than the Contract time or contractually required milestone completion date, the Agency may withhold Liquidated Damages for the number of days late. Should a subsequent schedule update which removes all or a portion of the delay be "Accepted" by the Engineer, all or the allocated portion of the previously held Liquidated Damages shall be released in the monthly payment to the Contractor immediately following such acceptance.
- **6-1.1.5 Final Schedule Update.** The Contractor shall prepare and submit a final schedule update when one hundred percent of the Work is completed. The update must accurately represent the actual dates for all activities. The final schedule update shall be prepared and reviewed in accordance with 6-1.1.2. Acceptance of the final schedule update is required for release of funds retained per 9-3.2.
- **6-1.1.6 Three-Week Look Ahead Schedules.** The Contractor shall submit a detailed 3-week look ahead schedule prior to each progress meeting throughout project duration. The schedules shall be revised weekly to identify the construction activities and durations for each bid item of work for the current week and the succeeding two weeks. The Contractor shall revise the schedule to include additional activities or actual progress when so requested by the Engineer.
- **6-1.1.7 Measurement and Payment.** The Contractor's preparation, revision and maintenance of the Construction Schedule are incidental to the Work and no separate payment will be made therefor.
- **6-2 PROSECUTION OF WORK.** To minimize public inconvenience and possible hazard and to restore street and other work areas to their original condition and state of usefulness as soon as practicable, the Contractor shall diligently prosecute the Work to completion. If the Engineer determines that the Contractor is failing to prosecute the Work to the proper extent, the Contractor shall, upon orders from the Engineer, immediately take steps to remedy the situation.

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All costs of prosecuting the Work as described herein shall be included in the Contractor's Bid. Should the Contractor fail to take the necessary steps to fully accomplish said purposes, after orders of the Engineer, the Engineer may suspend the work in whole or part, until the Contractor takes said steps.

As soon as possible under the provisions of the Specifications, the Contractor shall backfill all excavations and restore to usefulness all improvements existing prior to the start of the Work.

If Work is suspended through no fault of the Agency, all expenses and losses incurred by the Contractor during such suspensions shall be borne by the Contractor. If the Contractor fails to properly provide for public safety, traffic, and protection of the Work during periods of suspension, the Agency may elect to do so, and deduct the cost thereof from monies due the Contractor. Such actions will not relieve the Contractor from liability.

The Contractor shall incorporate non-work days, moratoriums or special events specified in the Contract Documents into the Construction Schedule required by Section 6.1. No additional payment, adjustment of bid prices or adjustments of contract time will be allowed as a consequence of these events.

- **6-2.1 Order of Work.** The work to be done shall consist of furnishing all labor, equipment and materials, and performing all operations necessary to complete the Work as shown or specified on the Contract Documents. The work descriptions in this section are an overview only and shall not relieve the Contractor from its responsibilities to conduct all coordination and perform the Work in accordance with the Contract Documents.
- **6-2.2 Project Meetings.** The Engineer will establish the time and location of weekly Project Meetings. The Contractor's Representative shall attend each Project Meeting. The Project Representative shall be the individual determined under Section 7-6, "The Contractor's Representative". No separate payment for attendance of the Contractor, the Contractor's Representative or any other employee or subcontractor or subcontractor's employee at these meetings will be made.

6-3 SUSPENSION OF WORK.

- **6-3.1 General.** The Work may be suspended in whole or in part when determined by the Engineer that the suspension is necessary in the interest of the Agency. The Contractor shall comply immediately with any written order of the Engineer. Such suspension shall be without liability to the Contractor on the part of the Agency except as otherwise specified in Section 6-6.3.
- **6-3.2 Archaeological and Paleontological Discoveries.** The Contractor shall coordinate with the Archaeological and Cultural Monitor during excavation activities.

If discovery is made of items of archaeological or paleontological interest, the Contractor shall immediately cease excavation in the area of discovery and shall not continue until ordered by the Engineer. When resumed, excavation operations within the area of discovery shall be as directed by the Engineer.

Discoveries which may be encountered may include, but not be limited to, dwelling sites, stone implements or other artifacts, animal bones, human bones, and fossils.

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The Contractor shall be entitled to an extension and compensation in accordance with Section 6-6.

6-4 DEFAULT BY CONTRACTOR. If the Contractor fails to promptly begin procurement or delivery of material and equipment, to commence the Work within the time specified, to maintain the rate of delivery of material, to execute the Work in the manner and at such locations as specified, or fails to maintain the Work schedule which will insure the Agency's interest, or, if the Contractor is not carrying out the intent of the Contract, the Agency may serve written notice upon the Contractor and the Surety on its Faithful Performance Bond demanding satisfactory compliance with the Contract.

The Contract may be canceled by the Board without liability for damage, when in the Board's opinion the Contractor is not complying in good faith, has become insolvent, or has assigned or subcontracted any part of the Work without the Board's consent. In the event of such cancellation, the Contractor will be paid the actual amount due based on Contract Unit Prices or lump sums bid and the quantity of the Work completed at the time of cancellation, less damages caused to the Agency by acts of the Contractor. The Contractor, in having tendered a Bid, shall be deemed to have waived any and all claims for damages because of cancellation of Contract for any such reason. If the Agency declares the Contract canceled for any of the above reasons, written notice to that effect shall be served upon the Surety. The Surety shall, within five (5) days, assume control and perform the Work as successor to the Contractor.

If the Surety assumes any part of the Work, it shall take the Contractor's place in all respects for that part and shall be paid by the Agency for all work performed by it in accordance with the Contract. If the Surety assumes the entire Contract, all money due the Contractor at the time of its default shall be payable to the Surety as the Work progresses, subject to the terms of the Contract.

If the Surety does not assume control and perform the Work within 5 days after receiving notice of cancellation, or fails to continue to comply, the Agency may exclude the Surety from the premises. The Agency may then take possession of all material and equipment and complete the Work by Agency forces, by letting the unfinished Work to another Contractor, or by a combination of such methods. In any event, the cost of completing the Work shall be charged against the Contractor and its Surety and may be deducted from any money due or becoming due from the Agency. If the sums due under the Contract are insufficient for completion, the Contractor or Surety shall pay to the Agency within 5 days after the completion, all costs in excess of the sums due.

The provisions of this section shall be in addition to all other rights and remedies available to the Agency under law.

6-5 TERMINATION OF CONTRACT. The Board may terminate the Contract at its own discretion or when conditions encountered during the Work make it impossible or impracticable to proceed, or when the Agency is prevented from proceeding with the Contract by act of God, by law, or by official action of a public authority.

6-6 DELAYS AND EXTENSIONS OF TIME.

6-6.1 General. If delays are caused by unforeseen events beyond the control of the Contractor, such delays will entitle the Contractor to an extension of time as provided herein, but the Contractor will not be entitled to damages or additional payment due to such delays, except



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as provided in 6-6.3. Such unforeseen events may include war, government regulations, labor disputes, strikes, fires, floods, adverse weather or elements necessitating cessation of work, inability to obtain materials, labor or equipment, required extra work, or other specific events as may be further described in the Specifications.

No extension of time will be granted for a delay caused by the Contractor's inability to obtain materials unless the Contractor furnishes to the Engineer documentary proof. The proof must be provided in a timely manner in accordance with the sequence of the Contractor's operations and the approved construction schedule.

If delays beyond the Contractor's control are caused by events other than those mentioned above, the Engineer may deem an extension of time to be in the best interest of the Agency. The Contractor will not be entitled to damages or additional payment due to such delays, except as provided in Section 6-6.3.

If delays beyond the Contractor's control are caused solely by action or inaction by the Agency, such delays will entitle the Contractor to an extension of time as provided in Section 6-6.2.

- **6-6.2 Extensions of Time.** Extensions of time, when granted, will be based upon the effect of delays to the Work. They will not be granted for noncontrolling delays to minor portions of the Work unless it can be shown that such delays did or will delay the progress of the Work.
- **6-6.3 Payment for Delays to Contractor.** The Contractor will be compensated for damages incurred due to delays for which the Agency is responsible. Such actual costs will be determined by the Engineer. The Agency will not be liable for damages which the Contractor could have avoided by any reasonable means, such as judicious handling of forces, equipment, or plant. The determination of what damages the Contractor could have avoided will be made by the Engineer.
- **6-6.4 Written Notice and Report.** The Contractor shall provide written notice to the Engineer within two hours of the beginning of any period that the Contractor has placed any workers or equipment on standby for any reason that the Contractor has determined to be caused by the Agency or by any organization that the Agency may otherwise be obligated by. The Contractor shall provide continuing daily written notice to the Engineer, each working day, throughout the duration of such period of delay. The initial and continuing written notices shall include the classification of each workman and supervisor and the make and model of each piece of equipment placed on standby, the cumulative duration of the standby, the Contractor's opinion of the cause of the delay and a cogent explanation of why the Contractor could not avoid the delay by reasonable means. Should the Contractor fail to provide the notice(s) required by this section the Contractor agrees that no delay has occurred and that it will not submit any claim(s) therefore.

6-7 TIME OF COMPLETION.

6-7.1 General. The Contractor shall complete the Work within the time set forth in the Contract. The Contractor shall complete each portion of the Work within such time as set forth in the Contract for such portion. The time of completion of the Contract shall be expressed in working days. The Contractor shall diligently prosecute the work to completion within **60** (sixty) working days after the starting date specified in the Notice to Proceed.



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6-7.2 Working Day. A working day is any day within the period between the start of the Contract time as defined in Section 6-1 and the date provided for completion, or upon field acceptance by the Engineer, for all work provided for in the Contract, whichever occurs first, other than:

- 1. Saturday,
- 2. Sunday,
- 3. any day designated as a holiday by the Agency,
- 4. any day identified as a construction moratorium due to special events or holiday periods;
- 5. any other day designated as a holiday in a Master Labor Agreement entered into by the Contractor or on behalf of the Contractor as an eligible member of a contractor association.
- 6. any day the Contractor is prevented from working at the beginning of the workday for cause as defined in Section 6-6.1,
- 7. any day the Contractor is prevented from working during the first 5 hours with at least 60 percent of the normal work force for cause as defined in Section 6-6.1.

Unless otherwise specified or approved in writing by the Engineer, the hours of work shall be between the **hours of 8:00 a.m. and 4:00 p.m. on Mondays through Fridays**, excluding Agency holidays and other restricted days or times as specified in the Contract Documents.

The Contractor shall obtain the written approval of the Engineer if the Contractor desires to work outside said hours or at any time during weekends and/or holidays. This written permission must be obtained at least 48 hours prior to such work. The Engineer may approve work outside the hours and/or days stated herein when, in his/her sole opinion, such work conducted by the Contractor is beneficial to the best interests of the Agency. The Contractor shall pay the inspection costs of such work.

The Contractor shall incorporate the dates, areas and types of work prohibited elsewhere in the Contract Documents into the construction schedule. No additional payment, adjustment of bid prices or adjustment of contract time of completion will be allowed as a consequence of the prohibition of work being performed within the dates, areas and/or types of work prohibited in this section.

Contractor is hereby advised that the Engineer may require after hours or weekend work if required for the protection and safety of existing facilities, workers or the public.

6-7.3 Contract Time Accounting. The Engineer will make a daily determination of each working day to be charged against the Contract time. These determinations will be discussed and the Contractor will be furnished a periodic statement showing allowable number of working days of Contract time, as adjusted, at the beginning of the reporting period. The statement will also indicate the number of working days charged during the reporting period and the number of working days of Contract time remaining. If the Contractor does not agree with the statement, it shall file a written protest within 15 days after receipt, setting forth the facts of the protest. Otherwise, the statement will be deemed to have been accepted.

6-8 COMPLETION, ACCEPTANCE, AND WARRANTY.

6-8.1 Site Walk-Through. After the site has been fully restored, the Inspector will schedule an inspection within five days of the Contractor's request. The Contractor and Inspector shall attend the inspection and all outstanding deficiencies shall be identified in a List of Deficiencies.

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A review of the red-line record drawings and asset schedule shall also be completed at the Site Walk-Through and all red-line deficiencies will be added to the List of Deficiencies.

- **6-8.2** List of Deficiencies. Following the Site Walk-Through, the Inspector will generate the List of Deficiencies (also known as the punch list) within five working days. The Contractor shall then have 10 working days to perform corrective work and provide a written response to each punchlist item.
- **6-8.3 Site Follow-Up Walk-Through.** Upon receipt of written responses to the List of Deficiencies, the Inspector will complete a follow-up inspection. Any outstanding deficiencies will be noted and returned to the Contractor. Outstanding deficiencies will delay full payment of any relevant bid items.
- **6-8.4 Request for Final Walk-Through.** Once the Contractor asserts they have satisfied the terms of the Contract and with the Inspector's permission, the Contractor may submit written assertion in the form of a Request for Final Walk-Through, certifying that all deficiencies identified through the Site Walk-Through process have been addressed and request a Final Inspection to demonstrate project completion to the Agency. The Contractor shall provide an attachment to the Request for Final Inspection with the Contractor's written response to each deficiency. The Request for Final Inspection shall not be considered complete without the Contractor's written response to each deficiency.
- **6-8.5 Final Walk-Through.** Upon receipt of the Request for Final Walk-Through, the Inspector shall schedule the Final Inspection. The Inspector and Contractor shall attend the final inspection. Representatives from other Agency departments reserve the right to be present at the Final Inspection.

The red-line record drawings and asset schedules shall also be reviewed.

If any deficiencies are not satisfactorily addressed or additional deficiencies are identified, the Contractor will have 10 working days to complete the corrective work.

6-8.6 Request for Completion. The Engineer will not accept the Work or any portion of the Work before all of the Work is completed and all outstanding deficiencies are corrected by the Contractor, and the Engineer is satisfied that all of the Work meets the requirements of the Contract Documents.

Once the Final Walk-Through has been completed and all outstanding deficiencies satisfactorily completed to Agency's approval, the Contractor shall submit a written assertion in the form of Request for Completion letter, certifying that the Work has been completed.

6-8.7 Completion. Upon receipt of the Request for Completion letter, the Agency shall review the written assertion within 2 working days. If, in the Engineer's judgment, the Work has been completed in accordance with the Contract Documents, the Agency will issue a Completion Letter.

The completion date will be the date to which liquidated damages will be computed.

Use, temporary, interim or permanent, of all, or portions of, the Work does not constitute completion or acceptance of the Work.

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- **6-8.8** Acceptance. Acceptance will occur after all the requirements contained in the Contract Documents have been fulfilled. If, in the Engineer's judgment, the Contractor has fully performed the Contract, the Engineer will so certify to the Board. Upon such certification by the Engineer, the Board may accept the Work. Upon the Board's acceptance of the Work, the Agency will cause a "Notice of Completion" to be filed in the office of the San Diego County Recorder. The date of recordation shall be the date of acceptance of the Work.
- **6-8.9 Warranty.** All work shall be warranted for one (1) year after acceptance of the Work and any faulty work or materials discovered during the warranty period shall be repaired or replaced by the Contractor, at its expense. Twenty-five percent of the faithful performance bond shall be retained as a warranty bond for the warranty period. The Contractor shall replace or repair any such defective work in a manner satisfactory to the Engineer, after notice to do so from the Engineer, and within the time specified in the notice. If the Contractor fails to make such replacement or repairs within the time specified in the notice, the Agency may perform this work and the Contractor's sureties shall be liable for the cost thereof.
- **6-9 LIQUIDATED DAMAGES.** Failure of the Contractor to complete the Work, or a portion thereof, within the time allowed will result in damages being sustained by the Agency. For each consecutive working day in excess of the time specified for completion of Work, or a portion thereof, as adjusted in accordance with Section 6-6, the Contractor shall pay the Agency, or have withheld monies due it, the sum of **five hundred dollars (\$500.00)**. Such sum is liquidated damages and shall not be construed as a penalty and may be deducted from payments due the Contractor if such delay occurs.

Execution of the Contract shall constitute agreement by the Agency and Contractor that the amount specified above per day is the minimum value of costs and actual damages caused by the Contractor to complete the Work within the allotted time. Any progress payments made after the specified completion date shall not constitute a waiver of this paragraph or of any damages.

6-10 USE OF IMPROVEMENT DURING CONSTRUCTION. The Agency reserves the right to take over and utilize all or part of any completed facility or appurtenance. The Contractor will be notified in writing in advance of such action. Such action by the Agency will relieve the Contractor of responsibility for injury or damage to said completed portions of the improvement resulting from use by public traffic or from the action of the elements or from any other cause, except Contractor operations or negligence. The Contractor will not be required to reclean such portions of the improvement before field acceptance, except for cleanup made necessary by its operations. Nothing in this section shall be construed as relieving the Contractor from full responsibility for correcting defective work or materials.

In the event the Agency exercises its right to place into service and utilize all or part of any completed facility or appurtenance, the Agency will assume the responsibility and liability for injury to persons or property resulting from the utilization of the facility or appurtenance so placed into service, except for any such injury to persons or property caused by any willful or negligent act or omission by the Contractor, Subcontractor, their officers, employees, or agents.

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SECTION 7 – RESPONSIBILITIES OF THE CONTRACTOR

7-1 CONTRACTOR'S EQUIPMENT AND FACILITIES. The Contractor shall furnish and maintain in good condition all equipment and facilities as required for the proper execution and inspection of the Work. Such equipment and facilities shall meet all requirements of applicable ordinances and laws.

7-2 LABOR.

- **7-2.1 General.** Only competent workers shall be employed on the Work. Any person employed who is found to be incompetent, intemperate, troublesome, disorderly, or otherwise objectionable, or who fails or refuses to perform work properly and acceptably, shall be immediately removed from the Work by the Contractor and not be reemployed on the Work.
- **7-2.2 Laws.** The Contractor, its agents, and employees shall be bound by and comply with applicable provisions of the Labor Code and Federal, State, and local laws related to labor.

The Contractor shall strictly adhere to the provisions of the Labor Code regarding minimum wages; the 8-hour day and 40-hour week; overtime; Saturday, Sunday, and holiday work; and nondiscrimination because of race, color, national origin, sex, or religion. The Contractor shall forfeit to the Agency the penalties prescribed in the Labor Code for violations.

In accordance with the Labor Code, the Board has on file and will publish a schedule of prevailing wage rates for the types of work to be done under the Contract. The Contractor shall not pay less than these rates.

Each worker shall be paid subsistence and travel as required by the collective bargaining agreement on file with the State of California Department of Industrial Relations.

The Contractor's attention is directed to Section 1776 of the Labor Code which imposes responsibility upon the Contractor for the maintenance, certification, and availability for inspection of such records for all persons employed by the Contractor or Subcontractor in connection with the project. The Contractor shall agree through the Contract to comply with this Section and the remaining provisions of the Labor Code.

7-3 LIABILITY INSURANCE. Insurance shall be required as specified in section 10 of the Public Works Contract.

The cost of this insurance shall be included in the Contractor's Bid.

7-4 WORKERS' COMPENSATION INSURANCE. Before execution of the Contract by the Board, the Contractor shall file with the Engineer the following signed certification:

"I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract."



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The Contractor shall also comply with Section 3800 of the Labor Code by securing, paying for, and maintaining in full force and effect for the duration of the contract, complete Workers' Compensation Insurance, and shall furnish a Certificate of Insurance to the Engineer before execution of the Contract. The Agency, its officers, or employees, will not be responsible for any claims in law or equity occasioned by failure of the Contractor to comply with this paragraph.

All compensation insurance policies shall bear an endorsement or shall have attached a rider whereby it is provided that, in the event of expiration or proposed cancellation of such policies for any reason whatsoever, the Agency shall be notified by registered mail not less than 30 days before expiration or cancellation is effective.

All insurance is to be placed with insurers that are admitted and authorized to conduct business in the state of California and are listed in the official publication of the Department of Insurance of the State of California. Policies issued by the State Compensation Fund meet the requirement for workers' compensation insurance.

7-5 PERMITS. Except as specified herein the Contractor will obtain all City of Carlsbad encroachment, right-of-way, grading and building permits necessary to perform work for this contract on Agency property, streets, or other rights-of-way. Contractor shall not begin work until all permits incidental to the work are obtained. The Contractor shall obtain and pay for all permits for the disposal of all materials removed from the project. The cost of said permit(s) shall be included in the price bid for the appropriate bid item and no additional compensation will be allowed therefor. The Contractor shall obtain and pay for all costs incurred for permits necessitated by its operations such as, but not limited to, those permits required for night work, oversize load, blasting, and demolition.

The Contractor shall pay all business taxes or license fees that are required for the Work.

- **7-5.1 Resource Agency Permits.** No resource agency permits are required for the Work.
- **7-5.2 Air Pollution Control Permits.** The use of materials or activities that can generate air emissions are regulated by the California Air Resource Board (CARB) and the San Diego County Air Pollution Control District (SDAPCD) and either require permits or are subject to state or local air regulations which establish limitations on equipment or product use or VOC content and requirements for recordkeeping and reporting. These materials and activities include, but are not limited to the following:
 - Abrasive blasting
 - Adhesives
 - Asbestos abatement, removal or disruption
 - Coating or painting
 - Concrete curing compounds
 - Demolition of buildings, equipment or structures
 - Fiberglass/polyester resin layup or machining
 - Operation of non-road diesel engines greater than 49 hp (including generators, compressors, pumps, hydro blasters, etc.)
 - Operation of off-road diesel engines greater than 25 hp (including forklifts, construction equipment, load handlers, etc.)
 - Solvents
 - Welding



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Operators of portable engines and other types of equipment can register their units under the CARB Statewide Portable Equipment Registration Program (PERP) in order to operate their equipment throughout California. However, the use of portable equipment (e.g., bypass pumps) to perform the function of permitted stationary equipment is subject to SDAPCD regulation in addition to CARB requirements.

Diesel-engine driven generators or equipment shall have a valid permit or registration in accordance with the California Air Resources Board and/or the San Diego County Air Pollution Control District regulations prior to mobilization to the site. The Contractor shall submit a copy of the permit or registration documents for all equipment subject to state or local air pollution control regulations and maintain the permit or registration documents in valid standing during the performance of the Work.

Products such as paints, adhesives, resins, solvents and other products shall comply with the Volatile Organic Compound (VOC) content limits established by CARB and/or the SDAPCD. The Contractor shall be responsible for determining that such products can be used legally in the performance of the Work. The Contractor shall maintain and submit records to the City Engineer on the quantities of paints or solvents used as may be required by applicable regulations.

Prior to starting any activity that is required to have an air pollution control permit or registration, the Contractor shall verify the applicability of the latest air pollution control regulations pertaining to the proposed materials, equipment and operations and obtain and comply with applicable requirements:

- Rule 11 Exemptions from Rule 10 Permit Requirements
 Rule 12 Registration of Specified Equipment
- Rule 12.1 Portable Equipment Registration
- Rule 51 Nuisance
- Rule 67.0.1 Architectural Coatings
- Rule 67.17 Storage of Materials Containing Volatile Organic Compounds
- Rule 71 Abrasive Blasting

San Diego Air Pollution Control District: 858-586-2600 https://www.sdapcd.org/content/sdapcd/permits.html

California Air Resource Board:

https://ww2.arb.ca.gov/our-work/programs/portable-equipment-registration-program-perp/about

7-6 THE CONTRACTOR'S REPRESENTATIVE. Before starting work, the Contractor shall designate in writing a representative who shall have complete authority to act for it. An alternative representative may be designated as well. The representative or alternate shall be present at the Work site whenever work is in progress or whenever actions of the elements necessitate its presence to take measures necessary to protect the Work, persons, or property. Any order or communication given to this representative shall be deemed delivered to the Contractor. A joint venture shall designate only one representative and alternate. In the absence of the Contractor or its representative, instructions or directions may be given by the Engineer to



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the superintendent or person in charge of the specific work to which the order applies. Such order shall be complied with promptly and referred to the Contractor or its representative.

In order to communicate with the Agency, the Contractor's representative, superintendent, or person in charge of specific work shall be able to speak, read, and write the English language.

In the event that the Contractor proposes to change the Contractor's Representative prior to Project completion, the Contractor shall notify the Agency and submit the qualifications of the proposed Contractor's Representative for the Engineer's review at least two weeks prior to the proposed change. The qualifications shall demonstrate that the minimum requirements of the position, as described herein, are satisfied. The Engineer will review the qualifications of proposed Contractor's Representative within 5 working days of receipt.

No change in Contractor's Representative will be allowed without the Agency's approval. In the event of a change in Contractor's Representative without prior approval, Agency reserves the right to suspend work, at the Contractor's cost, until a qualified Contractor's Representative is approved for the Project.

7-7 COOPERATION AND COLLATERAL WORK. The Contractor shall be responsible for ascertaining the nature and extent of any simultaneous, collateral, and essential work by others. The Agency, its workers and contractors and others, shall have the right to operate within or adjacent to the Work site during the performance of such work.

The Agency, the Contractor, and each of such workers, contractors and others, shall coordinate their operations and cooperate to minimize interference.

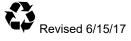
The Contractor shall include in its Bid all costs involved as a result of coordinating its work with others. the Contractor will not be entitled to additional compensation from the Agency for damages resulting from such simultaneous, collateral, and essential work. If necessary to avoid or minimize such damage or delay, the Contractor shall redeploy its work force to other parts of the Work.

Should the Contractor be delayed by the Agency, and such delay could not have been reasonably foreseen or prevented by the Contractor, the Engineer will determine the extent of the delay, the effect on the project, and any extension of time.

- **7-7.1 Coordination.** The Contractor shall coordinate and cooperate with all utility companies during the mark-out and locating of their lines or during their relocation or construction if necessary. The Contractor may be granted a time extension if, in the opinion of the Engineer, a delay is caused by the utility company. No additional compensation will be made to the Contractor for any such delay.
- **7-7.2 Site Access.** The project site is located within a secured CMWD property. At the start of project, the Contractor shall provide and 'daisy chain' their own lock on the lock chain and remove at the conclusion of the project.

7-8 PROJECT SITE MAINTENANCE.

7-8.1 Cleanup and Dust Control. Throughout all phases of construction, including suspension of work, and until the final acceptance, the Contractor shall keep the site clean and free from rubbish and debris. The Contractor shall also abate dust nuisance by cleaning,



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sweeping and sprinkling with water, or other means as necessary. The use of water resulting in mud on public streets will not be permitted as a substitute for sweeping or other methods.

When required by the Plans or Specifications, the Contractor shall furnish and operate a self-loading motor sweeper with spray nozzles at least once each working day for the purpose of keeping paved areas acceptably clean wherever construction, including restoration, is incomplete.

Materials and equipment shall be removed from the site as soon as they are no longer necessary. Before the final inspection, the site shall be cleared of equipment, unused materials, and rubbish so as to present a satisfactory clean and neat appearance. All cleanup costs shall be included in the Contractor's Bid.

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

Excess excavation material from catch basins or similar structures shall be removed from the site immediately. Sufficient material may remain for use as backfill if permitted by the Specifications. Forms and form lumber shall be removed from the site as soon as practicable after stripping.

Failure of the Contractor to comply with the Engineer's cleanup orders may result in an order to suspend work until the condition is corrected. No additional compensation will be allowed as a result of such suspension.

Cleanup and dust control required herein shall also be executed on weekends and other non-working days when needed to preserve the health safety or welfare of the public. The Contractor shall conduct effective cleanup and dust control throughout the duration of the Contract. The Engineer may require increased levels of cleanup and dust control that, in his/her sole discretion, are necessary to preserve the health, safety and welfare of the public. Cleanup and dust control shall be considered incidental to the items of work that they are associated with and no additional payment will be made therefore.

- **7-8.2** Air Pollution Control. The Contractor shall not discharge smoke, dust, or any other air contaminants into the atmosphere in such quantity as will violate the regulations of any legally constituted authority.
- **7-8.3 Vermin Control.** At the time of acceptance, structures entirely constructed under the Contract shall be free of rodents, insects, vermin, and pests. Necessary extermination work shall be arranged and paid for by the Contractor as part of the Work within the Contract time and shall be performed by a licensed exterminator in accordance with requirements of governing authorities. The Contractor shall be liable for injury to persons or property and responsible for the elimination of offensive odors resulting from extermination operations.
- **7-8.4 Sanitation.** The Contractor shall provide and maintain enclosed toilets for the use of employees engaged in the Work. These accommodations shall be maintained in a neat and sanitary condition. They shall also comply with all applicable laws, ordinances, and regulations pertaining to public health and sanitation of dwellings and camps.



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Wastewater shall not be interrupted. Should the Contractor disrupt existing sewer facilities, sewage shall be conveyed in closed conduits and disposed of in a sanitary sewer system. Sewage shall not be permitted to flow in trenches or be covered by backfill.

7-8.5 Temporary Light, Power, and Water. The Contractor shall furnish, install, maintain, and remove all temporary light, power, and water at its own expense. These include piping, wiring, lamps, and other equipment necessary for the Work. The Contractor shall not draw water from any fire hydrant (except to extinguish a fire), without obtaining permission from the water agency concerned. The Contractor shall obtain a construction meter for water used for the construction, plant establishment, maintenance, cleanup, testing and all other work requiring water related to this contract. The Contractor shall contact the appropriate water agency for requirements. The Contractor shall pay all costs of temporary light, power and water including hookup, service, meter and any, and all, other charges, deposits and/or fees therefor. Said costs shall be considered incidental to the items of work that they are associated with and no additional payment will be made therefor.

7-8.6 Water Pollution Control. The Contractor shall exercise every reasonable precaution to protect channels, storm drains, and bodies of water from pollution. It shall conduct and schedule operations so as to minimize or avoid muddying and silting of said channels, drains, and waters. Water pollution control work shall consist of constructing those facilities which may be required to provide prevention, control, and abatement of water pollution.

The Contractor shall comply with the California State Water Resources Control Board (SWRCB) Order Number R9-2013-0001, 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, and amendments thereto, and with all requirements of the Storm Water Pollution Prevention Plan for this project in accordance with these regulations.

The Contractor shall be responsible for the preparation and implementation of the Storm Water Pollution Prevention Plan (SWPPP) for each site location per Section 300-12. Templates are available at the City's website and following Link:

Engineering Applications & Forms | Carlsbad, CA (carlsbadca.gov)

SWPPPs are to be designed in accordance with the <u>City of Carlsbad Engineering Standards</u> <u>Volume 4 SWPPP Manual</u> and are subject to approval by the City.

7-8.6.1 Dewatering. Dewatering shall be performed by the Contractor when specifically required by the Plans or Specifications or specified in the bid schedule, and as necessary for construction of the Work. Dewatering shall be performed in conformance with all applicable local, state and Federal laws and permits issued by jurisdictional regulatory agencies.

Permits necessary for the discharge of groundwater to land or the sanitary sewer system shall be obtained by the Contractor unless provided by the District. Water shall be treated prior to disposal if so specified in the Special Provisions or required by a permit.

The Contractor shall submit a Dewatering Plan and related supporting information detailing its proposed plan and methodology of dewatering, treatment/pretreatment (when required for permit compliance) and disposal of accumulated water. The plan shall identify the following:



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- 1. location, type and size of dewatering devices and related equipment,
- 2. size and type of materials composing the collection system,
- 3. size and type of equipment to be used to retain and, if required, treat accumulated water,
- 4. the proposed disposal locations, and
- 5. any other information required by the jurisdictional agency.

If the proposed disposal location is a sanitary sewer, the Contractor shall comply with the Special Use Discharge Permit from the Encina Wastewater Authority. If the proposed disposal location is a storm drain system or receiving body of water, the Contractor shall submit written evidence of permission from the owner of the storm drain system and, if not obtained by the Agency, original signed permits from jurisdictional regulatory agencies or written evidence that such permits are not required.

All costs for dewatering including sample collection, testing, permit application fees and installation, testing and operation of the dewatering system shall be made at the contract price specified in the bid schedule for Dewatering. If no such bid item is listed, payment shall be considered included in the bid item of work requiring dewatering and no separate or additional payment shall be made therefor.

- **7-8.7 Drainage Control.** The Contractor shall maintain drainage within and through the work areas. Earth dams will not be permitted in paved areas. Temporary dams of sandbags, asphaltic concrete, or other acceptable material will be permitted when necessary. Such dams shall be removed from the site as soon as their use is no longer necessary.
- **7-8.8 Noise Control.** All internal combustion engines used in the construction shall be equipped with mufflers in good repair when in use on the project with special attention to the City Noise Control Ordinance, Carlsbad Municipal Code Chapter 8.48.
- **7-9 PROTECTION AND RESTORATION OF EXISTING IMPROVEMENTS.** The Contractor shall be responsible for the protection of public and private property adjacent to the Work and shall exercise due caution to avoid damage to such property.

The Contractor shall repair or replace all existing improvements within the right-of-way which are not designated for removal (e.g., curbs, sidewalks, driveways, fences, walls, signs, utility installations, pavement, structures, etc.) which are damaged or removed as a result of its operations. When a portion of a sprinkler system within the right-of-way must be removed, the remaining lines shall be capped. Repairs and replacements shall be at least equal to existing improvements and shall match them in finish and dimension.

Maintenance of street and traffic signal systems that are damaged, temporarily removed or relocated shall be done in conformance with 307-1.5.

Trees, lawns, and shrubbery that are not to be removed shall be protected from damage or injury. If damaged or removed due to Contractor's operations, they shall be restored or replaced in as nearly the original condition and location as is reasonably possible. Lawns shall be restored with sod and unpaved areas covered with suitable mulch.

The Contractor shall give reasonable notice to occupants or owners of adjacent property to permit them to salvage or relocate plants, trees, fences, sprinklers, and other improvements, within the right-of-way which are designated for removal and would be destroyed because of the Work.

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All costs to the Contractor for protecting, removing, and restoring existing improvements shall be included in the Bid.

- **7-9.1 Preconstruction Survey.** The Contractor shall perform a preconstruction survey of the project site to provide a record of preconstruction conditions. This survey shall include the following as a minimum:
 - 1. Video of existing public right-of-way or easements, proposed alignment, utility mark-outs, working areas, staging and storage areas. Conduct the survey after construction staking has been completed.
 - 2. Video of construction access roads to be used by the Contractor, including all public and private streets used for access to and from the work site. Indicate areas of damaged paving.
 - 3. Any other areas as directed by the Owner which may be disturbed or which are to be protected from the Contractor's operations.
 - 4. Photographs and video of potential "problem areas" and private property adjacent to the Work
 - 5. Notify the Owner seven calendar days in advance and coordinate the scheduling of the video so that a representative of the Owner may accompany the Contractor during the videotaping.
 - 6. At the completion of the survey, the Contractor shall present the Owner with a report detailing the existing conditions at each proposed pipeline site, staging, and stockpile areas. The report shall include the following as a minimum:
 - a. One copy of the video in color in digital format.
 - b. One digital photograph of each "potential problem area".
 - c. Written summary of "potential problem areas" and the Contractor's recommendations to address these areas.
 - 7. 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 potholing, excavation or dewatering activities until the final report has been submitted and accepted by the Owner.

7-10 PUBLIC CONVENIENCE AND SAFETY.

7-10.1 Traffic and Access. The Contractor's operations shall cause no unnecessary inconvenience. The access rights of the public shall be considered at all times. Unless otherwise authorized, traffic shall be permitted to pass through the Work, or an approved detour shall be provided.

In areas where site access is restricted, the Contractor is responsible for coordinating site access. All communications shall be made through the City inspector unless otherwise approved.

No excavation or vehicle access will be allowed to occur outside of the easement, outside of the right-of-way, or in vegetated or landscaped areas unless otherwise shown on the Plans or as approved by the Engineer.

Safe and adequate pedestrian and vehicular access shall be provided and maintained to fire hydrants; commercial and industrial establishments; churches, schools and parking lots; service stations and motels; hospitals; police and fire stations; public transportation stops and

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establishments of similar nature. Access to these facilities shall be continuous and unobstructed unless otherwise approved by the Engineer. Pedestrian crossings of the Work at intervals not exceeding 300 feet (90 m) shall be provided and maintained unless otherwise approved by the Engineer.

The Contractor shall refer to and comply with the requirements of Section 302-15 and Part 6 of the Supplemental Provisions.

7-10.2 Storage of Equipment and Materials in Public Streets. Construction materials shall not be stored in streets, roads, or highways after unloading. Construction equipment shall not be stored at the Work site before its actual use on the Work or after it is no longer needed. All materials or equipment not installed or used in construction on any given day shall be stored elsewhere by the Contractor at its expense unless otherwise approved by the Engineer.

Excavated material, except that which is to be used as backfill in the adjacent trench on the same day, shall not be stored in public streets. After placing backfill, all excess material shall be removed immediately from the site.

7-10.3 Street Closures, Detours, Barricades. The Contractor shall comply with all applicable State, County, and City requirements for closure of streets. The Contractor shall provide barriers, guards, lights, signs, temporary bridges, flag persons, and watchpersons. The Contractor shall be responsible for compliance with additional public safety requirements which may arise. The Contractor shall furnish and install signs and warning devices and promptly remove them upon completion of the Work.

After obtaining the Engineers approval and at least 5 working days before closing, detouring, partially closing or reopening any street, alley or other public thoroughfare the Contractor shall notify the following:

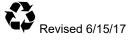
The Engineer	.442-339-2766
Carlsbad Fire Administration	
Carlsbad Police Department Dispatch	. 442-339-2197
Carlsbad Traffic Signals Maintenance	. 760-438-2980
Carlsbad Traffic Signals Operations	. 442-339-2736
North County Transit District	. 760-966-6500
Republic Services	. 760-332-6464

The Contractor shall comply with their requirements. The Contractor shall obtain the Engineer's written approval prior to deviating from the requirements of 2) through, and including, 7) above. The Contractor shall obtain the written approval no less than five working days prior to placing any traffic control that affects bus stops.

The Contractor shall secure approval, in advance, from authorities concerned for the use of any bridges proposed by it for public use. Temporary bridges shall be clearly posted as to load limit, with signs and posting conforming to current requirements covering "signs" as set forth in the Traffic Manual published by the California Department of Transportation. This manual shall also apply to the street closures, barricades, detours, lights, and other safety devices required.

All costs involved shall be included in the Bid.

Temporary traffic controls shall be in accordance with the Plans, the TCP, the California Manual



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on Uniform Traffic Control Devices (MUTCD), current edition, and the Contract Documents.

7-10.3.1 Construction Area Signs and Control Devices. All construction traffic signs and control devices shall be maintained throughout the duration of work in good order and according to the approved traffic control plan. All temporary traffic control devices shall conform to Caltrans Standard Specification 12-3.

Warning and advisory signs, lights and devices shall be furnished, installed and maintained by the Contractor and shall be promptly removed by the Contractor when no longer required. Warning and advisory signs that remain in place overnight shall be stationary mounted signs. Stationary signs that warn of non-existent conditions shall be removed from the traveled way and from the view of motorists in the traveled way or shielded from the view of the traveling public during such periods that their message does not pertain to existing conditions.

All excavation required to install stationary construction area signs shall be performed by hand methods without the use of power equipment. Warning and advisory signs that are used only during working hours may be portable signs. Portable signs shall be removed from the traveled way and shielded from the view of the traveling public during non-working hours.

Personal vehicles of the Contractor's employees shall not be parked within the traveled way, including any Section closed to public traffic. Whenever the Contractor's vehicles or equipment are parked on the shoulder within 6' of a traffic lane, the shoulder area shall be closed with fluorescent traffic cones or portable delineators placed on a taper in advance of the parked vehicles or equipment and along the edge of the pavement at not less than 25' intervals to a point not less than 25' past the last vehicle or equipment. A minimum of nine (9) cones or portable delineators shall be used for the taper. A W20-1 (Road Work Ahead) or C24 (Shoulder Work Ahead) sign shall be mounted, as required herein, on a signpost or telescoping flag tree with flags. The signpost or flag tree shall be placed where directed by the Engineer.

7-10.3.2 Maintaining Traffic. The Contractor's personnel shall not work closer than 1.8 m (6') nor operate equipment within 0.6 m (2') from any traffic lane occupied by traffic. For equipment, the distance shall be measured from the closest approach of any part of the equipment as it is operated and/or maneuvered in performing the work. This requirement may be waived when the Engineer has given written authorization to the reduction in clearance that is specific to the time, duration and location of such waiver, when such reduction is shown on the traffic control plans included in these Contract Documents, when such reduction is shown on the traffic control plans prepared by the Contractor and approved by the Engineer or for the work of installing, maintaining and removing traffic control devices. As a condition of such waiver the Engineer may require the Contractor to detour traffic, adjust the width of, or realign the adjacent traffic lane, close the adjacent traffic lane or provide barriers.

During the entire construction, a minimum of one, 12-foot wide paved traffic lane shall be open for use by public traffic in each direction of travel.

7-10.3.3 Traffic Control System for Lane Closure. A traffic control system consists of closing traffic lanes or pedestrian walkways in accordance with the details shown on the plans, California Manual on Uniform Traffic Control Devices (FHWA MUTCD, current edition, as amended for use in California) and provisions under "Maintaining Traffic" elsewhere in these Provisions. The provisions in this section will not relieve the Contractor from its responsibility to provide such additional devices or take such measures as may be necessary to maintain public safety.



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When lanes are closed for only the duration of work periods, all components of the traffic control system, except portable delineators placed along open trenches or excavation adjacent to the traveled way, shall be removed from the traveled way and shoulder at the end work period. If the Contractor so elects, said components may be stored at selected central locations, approved by the Engineer, within the limits of the right-of-way.

7-10.3.4 Traffic Control for Permanent and Temporary Traffic Striping. During traffic striping operations, traffic shall be controlled with lane closures, as provided for under "Traffic Control System for Lane Closure" of these Supplemental Provisions or by use of an alternative traffic control plan proposed by the Contractor and approved by the Engineer. The Contractor shall not start traffic striping operations using an alternative plan until the Contractor has submitted its plan to the Engineer and has received the Engineer's written approval of said plan.

7-10.3.5 Temporary Pavement Delineation. Temporary pavement delineation shall be furnished, placed, maintained and removed in accordance with the minimum standards specified in the latest California Manual on Uniform Traffic Control Devices (CAMUTCD) published by Caltrans. Whenever the work causes obliteration of pavement delineation, temporary or permanent pavement delineation shall be in place prior to opening the traveled way to public traffic. Lane line or centerline pavement delineation shall be provided at all times for traveled ways open to public traffic. All work necessary, including any required lines or marks, to establish the alignment of temporary pavement delineation shall be performed by the Contractor. When temporary pavement delineation is removed, all lines and marks used to establish the alignment of the temporary pavement delineation shall be removed by grinding.

Surfaces to receive temporary pavement delineation shall be dry and free of dirt and loose material. Temporary pavement delineation shall not be applied over existing pavement delineation or other temporary pavement delineation. Temporary pavement delineation shall be maintained until superseded or replaced with permanent pavement delineation.

Temporary pavement delineation shall be removed when, as determined by the Engineer, the temporary pavement delineation conflicts with the permanent pavement delineation or with a new traffic pattern for the area and is no longer required for the direction of public traffic. When temporary pavement delineation is required to be removed, all lines and marks used to establish the alignment of the temporary pavement delineation shall be removed.

7-10.3.6 Preparation of Traffic Control Plans. The Contractor shall submit traffic control plans (TCPs) as a part of the Work for all construction activities that are located within the traveled way. TCPs shall be prepared by a professional engineer registered in the State of California and regularly engaged in the preparation of traffic control plans. Design of TCPs for construction shall meet the requirements of the City and the California Manual on Uniform Traffic Control Devices as published by Caltrans. Submittal and review requirements for TCPs shall conform to Section 2-5.3 Shop Drawings and Submittals.

The Contractor must obtain the Engineer's approval prior to implementing TCPs. The minimum 20-day review period specified in Section 2-5.3.1 for shop drawings and submittals shall pertain to each submittal of TCPs. New or revised TCP submittals shall include all TCPs needed for the entire duration of the Work. Each TCP phase shall be prepared in sufficient scale and detail to show the lane widths, transition lengths, curve radii, stationing of features affecting the traffic control plan and the methodology proposed to transition to the subsequent TCP phase. When the vertical alignment of the traveled surface differs from the finished pavement elevation,



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vertical curves must also be shown. The Engineer shall be the sole judge of the suitability and quality of any such TCPs.

7-10.3.7 Payment. The contract price paid for Traffic Control shall include full compensation for furnishing all labor, materials, tools, equipment and incidentals, and for performing all work involved to implement the traffic control system, complete in-place, including, but not limited to, preparing and revising TCPs, flag persons, installing temporary or permanent traffic control devices such as barriers, delineators, lighting, signage, portable changeable message signs, striping, pavement markers and markings in accordance with the Contract Documents and as directed by the Engineer. Progress payments for Traffic Control will be based on the percentage of the improvement work necessitating traffic control and completed.

7-10.4 Safety.

7-10.4.1 Safety Orders. The Contractor shall have at the Work site, copies or suitable extracts of: Construction Safety Orders, Tunnel Safety Orders and General Industry Safety Orders issued by the State Division of Industrial Safety. The Contractor shall comply with provisions of these and all other applicable laws, ordinances, and regulations.

Before excavating any trench 5 feet or more in depth, the Contractor shall submit a detailed plan to the Agency showing the design of shoring, bracing, sloping, or other provisions to be made for the workers' protection from the hazard of caving ground during the excavation of such trench. If the plan varies from the shoring system standards, the plan shall be prepared by a registered Civil Engineer. No excavation shall start until the Engineer has accepted the plan and the Contractor has obtained a permit from the State Division of Industrial Safety. A copy of the permit shall be submitted to the Engineer.

Payment for performing all work necessary to provide safety measures shall be included in the prices bid for other items of work except where separate bid items for excavation safety are provided or required by law.

7-10.4.2 Use of Explosives. Explosives may be used only when authorized in writing by the Engineer, or as otherwise stated in the Specifications. Explosives shall be handled, used, and stored in accordance with all applicable regulations.

The Engineer's approval of the use of explosives shall not relieve the Contractor from liability for claims caused by blasting operations.

7-10.4.3 Special Hazardous Substances and Processes. Materials that contain hazardous substances or mixtures may be required on the Work. A Material Safety Data Sheet as described in Section 5194 of the California Code of Regulations shall be requested by the Contractor from the manufacturer of any hazardous products used.

Material usage shall be accomplished with strict adherence to California Division of Industrial Safety requirements and all manufacturer warnings and application instructions listed on the Material Safety Data Sheet and on the product container label.

The Contractor shall notify the Engineer if a specified product cannot be used under safe conditions.

7-10.4.4 Confined Spaces.



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(a) Confined Space Entry Program. The Contractor shall be responsible for implementing, administering and maintaining a confined space entry program (CSEP) in accordance with Sections 5156, 5157 and 5158, Title 8, CCR.

Prior to starting the Work, the Contractor shall prepare and submit its comprehensive CSEP to the Engineer. The CSEP shall address all potential physical and environmental hazards and contain procedures for safe entry into confined spaces, including, but not limited to the following:

- 1. Training of personnel
- 2. Purging and cleaning the space of materials and residue
- 3. Potential isolation and control of energy and material inflow
- 4. Controlled access to the space
- 5. Atmospheric testing of the space
- 6. Ventilation of the space
- 7. Special hazards consideration
- 8. Personal protective equipment
- 9. Rescue plan provisions

The Contractor's submittal shall include the names of its personnel, including subcontractor personnel, assigned to the project who will have CSEP responsibilities, their CSEP training, and their specific assignment and responsibility in carrying out the CSEP.

- (b) Permit-Required Confined Spaces. Entry into permit-required confined spaces as defined in Section 5157, Title 8, CCR may be required as a part of the Work. All manholes, tanks, vaults, pipelines, excavations, or other enclosed or partially enclosed spaces shall be considered permit-required confined spaces until the pre-entry procedures demonstrate otherwise. The Contractor shall implement a permit space program prior to performing any work in a permit-required confined space. A copy of the permit shall be available at all times for review by Contractor and Agency personnel at the Work site.
- (c) Payment. Payment for implementing, administering, and providing all equipment and personnel to perform the CSEP shall be included in the bid items for which the CSEP is required.
- **7-10.4.5 Safety and Protection of Workers and Public.** The Contractor shall take all necessary precautions for the safety of employees on the work and shall comply with all applicable provisions of Federal, State and Municipal safety laws and building codes to prevent accidents or injury to persons on, about, or adjacent to the premises where the work is being performed. The Contractor shall erect and properly maintain at all times, as required by the conditions and progress of the work, all necessary safeguards for the protection of workers and public and shall use danger signs warning against hazards created by such features of construction as protruding nails, hoists, well holes, and falling materials.

7-10.4.6 Flood Lighting.

7-10.4.6.1 General. When work is being performed during hours of darkness, as defined in Division 1, Section 280, of the California Vehicle Code, flood lighting shall be used to illuminate the Work site, flagger stations, equipment crossings and other hazardous areas. Flood lighting shall provide visibility for a distance of 1/2 mile (800 m). Flood lights shall not shine directly into the view of oncoming traffic.



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7-10.4.6.2 Payment. No separate or additional payment will be made for flood lighting. Payment shall be included in the Contract Unit Price or lump sum price in the Bid for the various Bid items.

7-10.4.7 Security and Protective Devices.

7-10.4.7.1 General. Security and protective devices shall consist of fencing, steel plates, or other devices as specified in the Special Provisions to protect open excavations.

7-10.4.7.2 Security Fencing. The Contractor shall completely fence open excavations. Security fencing shall conform to 304-5. Security fencing shall remain in place unless workers are present and construction operations are in progress during which time the Contractor shall provide equivalent security.

7-10.4.7.3 Payment. No separate or additional payment will be made for security fencing or protective devices. Payment shall be included in the Contract Unit Price or lump sum price in the Bid for the various Bid items.

7-10.4.8 Steel Plate Covers.

7-10.4.8.1 General. The Contractor shall provide, install, and maintain steel plate covers as necessary to protect from accidental entry into openings, trenches, and excavations. Plates shall provide complete coverage to prevent any person, bicycle, motorcycle, or motor vehicle from being endangered due to plate movement causing separations or gaps. The Contractor shall submit the design in accordance with Section 2-5.3 which shall include the following criteria:

- 1. The approval of steel plate bridging shall be at the sole discretion of the Engineer.
- 2. Steel plate bridging shall be designed to support HS20-44 truck loading per Caltrans Bridge Design Specifications Manual.
- 3. Surfaces exposed to pedestrian or vehicular traffic shall be non-skid. The Contractor shall maintain a non-skid surface on the steel plate having a minimum coefficient of friction equivalent to 0.35 as determined by California Test Method 342. If a different test method is used, the Contractor may utilize standard test plates with known coefficients of friction available from each Caltrans District Materials Engineer to correlate skid resistance results to California Test Method 342.
- 4. The Contractor shall install signage with a 2-inch (51 mm) minimum letter height indicating the steel plate cover load limit, the Company's name, and a 24-hour emergency contact phone number. The
- 5. Contractor shall install Rough Road (W33) sign with black lettering on an orange background in advance of steel plate bridging.
- 6. The Contractor is responsible for the maintenance of the plates and asphalt concrete ramps or other devices used to secure the plates and shoring of the trench to support all loads.
- 7. Contractor shall immediately mobilize necessary personnel and equipment to repair plate movements, separation, noise, anchors, asphalt ramps or any other deficiency. Failure to respond within 2 hours after being notified by the Engineer shall be grounds for the City to perform necessary repairs at the expense of the Contractor.
- 8. When plates are removed, the pavement surface shall be repaired to the satisfaction of the Engineer.

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- 9. For trench widths exceeding those in Table 7-10.4.8.2, a structural design shall be prepared by a California registered civil or structural engineer regularly engaged in the design of shoring systems.
- **7-10.4.8.2 Thickness.** Steel plate covers shall conform to Table 7-10.4.8.2.

TABLE 7-10.4.8.2

Vidth Steel Plate Cover Thickness			
1/2" (12.5 mm)			
3/4" (19 mm)			
7/8" (22 mm)			
1" (25 mm)			
1-1/4" (32 mm)			
See Note 1			

Notes:

The Contractor shall submit a Working Drawing and calculations based on AASHTO H20-44 bridge loading.

7-10.4.8.3 Installation. Steel plate covers shall extend a minimum of 2 feet (600 mm) beyond trench edges. Unless otherwise specified in the Special Provisions or approved by the Engineer for the site conditions prior to use, steel plate covers shall be installed using Method 1. Method 2 shall not be used in a traveled lane.

Method 1. The pavement shall be cold milled to a depth equal to the thickness of the plate and to a width and length equal to the dimensions of the plate. The cold milling shall produce a flat surface to support the plate with no horizontal or vertical movement. Horizontal gaps between the unmilled pavement and the plate shall not exceed 1 inch (25 mm) and shall be filled with elastomeric sealant material which may, at the Contractor's option, be mixed with no more that 50%, by volume, of Type I aggregate conforming to the requirements of Tables 203-5.2(B) and 203-5.3(A).

Method 2. The approach plate and ending plate (in longitudinal placement) shall be attached to the surface by a minimum of 2 dowels, ¾" diameter (19 mm), drilled at the corners of the plate and drilled 6 inches (150 mm) into the pavement. Subsequent plates may be butted next to each other. Temporary asphalt concrete (D2-SC 800) shall be used to construct tapers from the steel plate surface to the existing surface at a 12-inch (300 mm) run for each 1 inch (25 mm) thickness of steel plate. When steel plates are removed, the dowel holes in the pavement section shall be completely filled with elastomeric sealant material.

Advance traffic warning signs shall be installed as specified in the Special Provisions or shown on the TCP.

7-10.4.8.4 Payment. Steel plate bridging materials including, but not limited to steel plates, anchoring devices, cold milling, elastomeric sealant material, asphalt ramping and padding, signage, placing, installation, removal, relocation, preparation and processing of shop drawings and submittals to support the use of steel plate bridging and all other materials, labor, supervision, overhead of any type or description will be considered as incidental to the work. No separate or additional payment for steel plate bridging will be made. No extension to contract time will be allowed for, or because of, the use of steel plate bridging.

7-11 PATENT FEES OR ROYALTIES. The Contractor shall absorb in its Bid the patent fees or royalties on any patented article or process furnished or used in the Work. The Contractor

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shall indemnify and hold the Agency harmless from any legal action that may be brought for infringement of patents.

7-12 ADVERTISING. The names, addresses and specialties of Contractors, Subcontractors, architects, or engineers may be displayed on removable signs. The size and location shall be subject to the Engineer's approval.

Commercial advertising matter shall not be attached to or painted on the surfaces of buildings, fences, canopies, or barricades.

7-13 LAWS TO BE OBSERVED. The Contractor shall keep fully informed of State and National laws and County and Municipal ordinances and regulations which in any manner affect those employed in the Work or the materials used in the Work or in any way affect the conduct of the Work. The Contractor shall at all times observe and comply with such laws, ordinances, and regulations. Municipal ordinances that affect this work include Chapter 11.06. Excavation and Grading. If this notice specifies locations or possible materials, such as borrow pits or gravel beds, for use in the proposed construction project which would be subject to Section 1601 or Section 1603 of the Fish and Game Code, the conditions established pursuant to Section 1601 et seq. of the Fish and Game Code shall become conditions of the contract.

7-14 ANTITRUST CLAIMS. Section 7103.5 of the Public Contract Code provides:

"In entering into a public works contract or a subcontract to supply goods, services, or materials pursuant to a public works contract, the contractor or subcontractor offers and agrees to assign to the awarding body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec 15) or Cartwright Act (Chapter 2 [commencing with Section 16700] of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works contract or subcontract. The assignment shall be made and become effective at the time the awarding body tenders final payment to the contractor, without further acknowledgment of the parties."



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SECTION 8 – FACILITIES FOR AGENCY PERSONNEL

8-1 GENERAL. Field Facilities for Agency personnel are not required.



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SECTION 9 – MEASUREMENT AND PAYMENT

9-1 MEASUREMENT OF QUANTITIES FOR UNIT PRICE WORK.

9-1.1 General. Unless otherwise specified, quantities of work shall be determined from measurements or dimensions in horizontal planes. However, linear quantities of pipe, piling, fencing and timber shall be considered as being the true length measured along longitudinal axis.

Unless otherwise provided in Specifications, volumetric quantities shall be the product of the mean area of vertical or horizontal sections and the intervening horizontal or vertical dimension. The planimeter shall be considered an instrument of precision adapted to measurement of all areas.

- **9-1.2 Methods of Measurement.** Materials and items of work which are to be paid for on basis of measurement shall be measured in accordance with methods stipulated in the particular sections involved.
- **9-1.3 Certified Weights.** When payment is to be made on the basis of weight, the weighing shall be done on certified platform scales or, when approved by the Engineer, on a completely automated weighing and recording system. The Contractor shall furnish the Engineer with duplicate licensed weighmaster's certificates showing actual net weights. The Agency will accept the certificates as evidence of weights delivered.
- **9-1.4 Units of Measurement.** The system of measure for this contract shall be the U.S. Standard Measures.
- **9-2 LUMP SUM WORK.** Items for which quantities are indicated "Lump Sum", "L.S.", or "Job", shall be paid for at the price indicated in the Bid. Such payment shall be full compensation for the items of work and all work appurtenant thereto.

The Contractor shall submit to the Engineer within 15 days after award of Contract, a detailed schedule in triplicate, to be used as a basis for determining progress payments on a lump sum contract or designated lump sum bid item. This schedule shall equal the lump sum bid and shall be in such form and sufficiently detailed as to satisfy the Engineer that it correctly represents a reasonable apportionment of the lump sum.

9-3 PAYMENT.

9-3.1 General. The quantities listed in the Bid schedule will not govern final payment. Payment to the Contractor will be made only for actual quantities of Contract items constructed in accordance with the Plans and Specifications. Upon completion of construction, if the actual quantities show either an increase or decrease from the quantities given in the Bid schedule, the Contract Unit Prices will prevail subject to the provisions of Section 3-2.2.1.

The unit and lump sum prices to be paid shall be full compensation for the items of work and all appurtenant work, including furnishing all materials, labor, equipment, tools, and incidentals.

Payment will not be made for materials wasted or disposed of in a manner not called for under the Contract. This includes rejected material not unloaded from vehicles, material rejected after

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it has been placed, and material placed outside of the Plan lines. No compensation will be allowed for disposing of rejected or excess material.

Payment for work performed or materials furnished under an Assessment Act Contract will be made as provided in particular proceedings or legislative act under which such contract was awarded.

Whenever any portion of the Work is performed by the Agency at the Contractor's request, the cost thereof shall be charged against the Contractor, and may be deducted from any amount due or becoming due from the Agency.

Whenever immediate action is required to prevent violation of any law, injury, death, or property damage, and precautions which are the Contractor's responsibility have not been taken and are not reasonably expected to be taken, the Agency may, after reasonable attempt to notify the Contractor, cause such precautions to be taken and shall charge the cost thereof against the Contractor, or may deduct such cost from any amount due or becoming due from the Agency. Agency action or inaction under such circumstances shall not be construed as relieving the Contractor or its Surety from liability.

Payment shall not relieve the Contractor from its obligations under the Contract; nor shall such payment be construed to be acceptance of any of the Work. Payment shall not be construed as the transfer of ownership of any equipment or materials to the Agency. Responsibility of ownership shall remain with the Contractor who shall be obligated to store any fully or partially completed work or structure for which payment has been made; or replace any materials or equipment required to be provided under the Contract which may be damaged, lost, stolen or otherwise degraded in any way prior to acceptance of the Work, except as provided in Section 6-10.

Guarantee periods shall not be affected by any payment but shall commence on the date of recordation of the "Notice of Completion."

If, within the time fixed by law, a properly executed notice to stop payment is filed with the Agency, due to the Contractor's failure to pay for labor or materials used in the Work, all money due for such labor or materials will be withheld from payment to the Contractor in accordance with applicable laws.

At the expiration of 35 days from the date of acceptance of the Work by the Board, or as prescribed by law, the amount deducted from the final estimate and retained by the Agency will be paid to the Contractor except such amounts as are required by law to be withheld by properly executed and filed notices to stop payment, or as may be authorized by the Contract to be further retained.

9-3.2 Partial and Final Payment. The Engineer will, after award of Contract, establish a closure date for the purpose of making monthly progress payments. 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.

Each month, the Engineer will make an approximate measurement of the work performed to the closure date as basis for making monthly progress payments. The estimated value will be based on contract unit prices, completed change order work and as provided for in Section 9-2 of these General Provisions. Progress payments shall be made no later than thirty (30) calendar



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days after the closure date. Five (5) working days following the closure date, the Engineer shall complete the detailed progress pay estimate and submit it to the Contractor for the Contractor's information. Should the Contractor assert that additional payment is due, the Contractor shall within ten (10) days of receipt of the progress estimate, submit a supplemental payment request to the Engineer with adequate justification supporting the amount of supplemental payment request. Upon receipt of the supplemental payment request, the Engineer shall, as soon as practicable after receipt, determine whether the supplemental payment request is a proper payment request. If the Engineer determines that the supplemental payment request is not proper, then the request shall be returned to the Contractor as soon as practicable, but not later than seven (7) days after receipt. The returned request shall be accompanied by a document setting forth in writing the reasons why the supplemental payment request was not proper. In conformance with Public Contract Code Section 20104.50, the City shall make payments within thirty (30) days after receipt of an undisputed and properly submitted supplemental payment request from the Contractor. If payment of the undisputed supplemental payment request is not made within thirty (30) days after receipt by the Engineer, then the City shall pay interest to the Contractor equivalent to the legal rate set forth in subdivision (a) of Section 685.010 of the Code of Civil Procedure.

From each progress estimate, 5 percent will be deducted and retained by the Agency, and the remainder less the amount of all previous payments will be paid. The Agency will withhold not less than 5 percent of the total Contract amount until acceptance of the performance of the Contract.

No progress payment made to the Contractor or its sureties will constitute a waiver of the liquidated damages under 6-9.

As provided in Section 22300 of the California Public Contract Code, the Contractor may substitute securities for any monies withheld by the Agency to ensure performance under the Contract.

After final inspection, the Engineer will make a Final Payment Estimate and process a corresponding payment. This estimate will be in writing and shall be for the total amount owed the Contractor as determined by the Engineer and shall be itemized by the contract bid item and change order item with quantities and payment amounts and shall show all deductions made or to be made for prior payments and amounts to be deducted under provisions of the contract. All prior estimates and progress payments shall be subject to correction in the Final Payment Estimate.

The Contractor shall have 30 calendar days from receipt of the Final Payment Estimate to make written statement disputing any bid item or change order item quantity or payment amount. The Contractor shall provide all documentation at the time of submitting the statement supporting its position. Should the Contractor fail to submit the statement and supporting documentation within the time specified, the Contractor acknowledges that full and final payment has been made for all contract bid items and change order items.

If the Contractor submits a written statement with documentation in the aforementioned time, the Engineer will review the disputed item within 30 calendar days and make any appropriate adjustments on the Final Payment. Remaining disputed quantities or amounts not approved by the Engineer will be subject to resolution as specified in Section 3-5, Disputed Work.

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The written statement filed by the Contractor shall be in sufficient detail to enable the Engineer to ascertain the basis and amount of said disputed items. The Engineer will consider the merits of the Contractor's claims. It will be the responsibility of the Contractor to furnish within a reasonable time such further information and details as may be required by the Engineer to determine the facts or contentions involved in its claims. Failure to submit such information and details will be sufficient cause for denying payment for the disputed items.

9-3.2.1 Payment for Claims. Except for those final payment items disputed in the written statement required in Section 9-3.2 all claims of any dollar amount shall be submitted in a written statement by the Contractor no later than the date of receipt of the final payment estimate. Those final payment items disputed in the written statement required in Section 9-3.2 shall be submitted no later than 30 days after receipt of the Final Payment estimate. No claim will be considered that was not included in this written statement, nor will any claim be allowed for which written notice or protest is required under any provision of this contract including Sections 3-4 Changed Conditions, 3-5 Disputed Work, 6-6.3 Payment for Delays to Contractor, 6-6.4 Written Notice and Report, or 6-7.3 Contract Time Accounting, unless the Contractor has complied with notice or protest requirements.

The claims filed by the Contractor shall be in sufficient detail to enable the Engineer to ascertain the basis and amount of said claims. The Engineer will consider and determine the Contractor's claims and it will be the responsibility of the Contractor to furnish within a reasonable time such further information and details as may be required by the Engineer to determine the facts or contentions involved in its claims. Failure to submit such information and details will be sufficient cause for denying the claims.

Payment for claims shall be processed within 30 calendar days of their resolution for those claims approved by the Engineer. The Contractor shall proceed with informal dispute resolution under Section 3-5, Disputed Work, for those claims remaining in dispute.

- **9-3.3 Delivered Materials.** The cost of materials and equipment delivered but not incorporated into the work will not be included in the progress estimate.
- **9-3.4 Mobilization.** When a bid item is included in the Proposal form for Mobilization and subject to the conditions and limitations in the Specifications, the costs of work in advance of construction operations and not directly attributable to any specific bid item will be included in the progress estimate. When no such bid item is provided, payment for such costs will be considered to be included in the other items of work.
- **9-3.4.1 Mobilization and Preparatory Work.** Payment for Mobilization and Preparatory Work will be made at the Contract price and includes full compensation for furnishing all insurance, bonds, licenses, labor, materials, utilities, tools, equipment and incidentals, and for doing all the work involved in mobilization and preparatory work and operations, including, but not limited to, those necessary for the movement of personnel, equipment, supplies, and incidental to preparing to conduct work on and off the project site and other offsite facilities necessary for work on the project; for all other facilities, sureties, work and operations which must be performed or costs incurred prior to beginning work on various contract items on or off the project site, excepting those specifically paid for under separate bid items. Such activities shall include, but are not limited to, coordination with Agency forces, securing permits, preconstruction survey (video and photographs), surveying and staking, securing construction water supply, providing power necessary for construction, providing all temporary construction fencing; installing, maintaining and removing project signs; providing on-site sanitary facilities;



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posting OSHA requirements and establishing safety programs, demobilization and any other work or services not included in any other bid item. Mobilization also includes the cost to fulfill all responsibilities of the Contractor defined in Section 7 and for maintaining and submitting the project record drawings at the end of the project. These record drawings must be reviewed monthly with the Agency to receive progress or final payments for any work. The Contractor hereby agrees that the price paid is sufficient for Mobilization and Preparatory Work, as described in this section, and that the Contractor shall have no right to additional compensation for Mobilization and Preparatory Work. The Contractor's bid price for Mobilization shall not exceed 10% of the Contractor's base bid.

Progress payments for Mobilization and Preparatory Work will be made as follows:

For the first progress payment (after the issuance of the Notice to Proceed), payment will be made at forty percent (40%) of the amount bid for Mobilization and Preparatory Work. For the second progress payment, payment will be made at fifty percent (50%) of the amount bid for Mobilization and Preparatory Work. The remaining 10% of the amount bid for Mobilization and Preparatory Work will be made when all punch list items are signed-off and completed to the satisfaction of the City Inspector, and the Contractor has completely demobilized from the project site(s).

9-4 BID ITEMS. Payment for each Bid Item shall be made at the quantity and type as listed in the Contractor's Proposal. All work shown or mentioned on the plans, in the Contract Documents, General Provisions, or Technical Provisions/Specifications shall be considered as included in the Bid Items. Contractor must protect existing utilities, improvements, landscaping, irrigation systems, and vegetation in place. If damaged during the work, Contractor is responsible to repair or replace any utilities, improvements, landscaping, irrigation systems, and vegetation at his expense.

BID SCHEDULE A

Bid Item No. A-1: Mobilization

The contract price paid for this bid item shall constitute payment for all mobilization work in accordance with Section 9-3.4.1.

Bid Item No. A-2: Tier I SWPPP Preparation, Implementation and Maintenance

The contract price paid for this bid item shall constitute full compensation to furnish all labor, materials and equipment to submit for approval, implement, maintain, report, document, and amend as necessary a Tier 1 Storm Water Pollution Prevention Plan per Sections 7-8.6 and 300-12.

Bid Item No. A-3: Clear, Grub and Restore Slope

The contract price paid for this bid item shall constitute payment to clear, trim and remove vegetation as necessary to construct the proposed storm drain; remove and replace in-kind any portion of the irrigation system impacted by the work; remove and restore in-kind fencing temporarily removed to provide access to the slope area; and to stabilize the slope with post construction BMPs upon installing the storm drain. Landscape as-built plans detailing the slope's vegetation and irrigation system are provided in Appendix C.



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Bid Item No. A-4: Remove and Replace Curb and Gutter

The contract price paid for this bid item shall constitute full compensation to remove the existing Type-G curb and gutter to the nearest joint in accordance with SDRSD G-11 and Section 401 and replace in-kind per SDRSD G-2, G-11 and Section 303-5.

Bid Item No. A-5: Construct Curb Outlet, Type A, SDRSD D-25A

The contract price paid for this bid item shall constitute full compensation to construct the curb outlet at the location shown on the Plans and in accordance with San Diego Regional Standard Drawing D-25A, the specifications and contract.

Bid Item No. A-6: Remove and Replace Street Light Junction Box and Associated Conduit

The contract price paid for this bid item shall constitute full compensation to remove an existing pull box and the associated conduit and conductors in conflict with the proposed curb outlet and to furnish and install a new 3.5 type pull box per city of Carlsbad Standard Drawing GS-21 at the location shown on the Plans and all associated work to restore the street light service in-kind including, but not limited to: excavation; placing and compacting base rock; backfill; intercepting the existing street light service conduit run; installation of new SCH 80 PVC conduit between the pull box and street light; furnishing, mandrel and splicing 10 AWG conductors to the existing street light service; and removal and replacement of the 10 amp street light fuse within the street light pole hand hole.

Bid Item No. A-7: Remove Sidewalk

The contract price paid for this bid item shall constitute full compensation to remove and dispose the existing concrete sidewalk to the extents shown on the Plans and in accordance with SDRSD G-11 and Section 401.

Bid Item No. A-8: Replace Sidewalk

The contract price paid for this bid item shall constitute full compensation to replace the concrete sidewalk to the extents shown on the Plans and in accordance with SDRSD G7-11 and Section 303-5.

Bid Item No. A-9: Construct 6-inch PVC Storm Drain

The contract price paid for this bid item shall constitute full compensation to construct the 6-inch PVC (SDR 35) storm drain and associated fittings in accordance with the Plans, Section 306 of the specifications and City of Carlsbad Standard Drawing DS-2.

Bid Item No. A-10: Construct Drainage Catch Basin

The contract price paid for this bid item shall constitute full compensation to furnish and install precast catch basin with HS-20 rated traffic grates of the size specified and at the locations shown on the Plans. This includes, but is not limited to, excavation; removal/modification of existing structures; pipe connections; bracing; subgrade preparation; bedding; backfilling; compaction; furnishing and installing precast inlet, frames and covers; and all incidental work or services.

Bid Item No. A-11: Remove Existing Catch Basin

The contract price paid for this bid item shall constitute full compensation to remove an existing catch basin and abandon in-place existing drainage pipe at the location shown on the Plans including, but not limited to: excavation, plugging and slurry filling abandoned 6" PE tubing, backfill and compaction.



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Bid Item No. A-12: Roadway Excavation

The contract price paid for this bid item shall constitute full compensation to furnish all labor, materials and equipment to excavate the existing soils and pavements from the proposed paving extents to the elevations shown on the Plans in accordance with Section 300-2 and dispose all spoils per Section 401.

Bid Item No. A-13: Furnish and Install Caltrans Class 2 Permeable Material

The contract price paid for this bid item shall constitute full compensation to furnish, place, and compact Caltrans Class 2 Permeable Material per Section 68-2.02F to the thickness and extents shown on the Plans and in accordance with the contract and specifications.

Bid Item No. A-14: Remove Asphalt Concrete Dike

The contract price paid for this bid item shall constitute payment for removing and disposing the existing asphalt concrete dike to the extents shown on the Plans.

Bid Item No. A-15: Construct Asphalt Concrete Paving, C2 PG64-10

The contract price for this item shall include full compensation to prepare and compact existing subgrade, surface preparation and to furnish, place, and compact C2 PG64-10 asphalt concrete pavement to the thickness and extents shown on the Plans and in accordance with the contract and specifications.

Bid Item No. A-16: Construct Porous Asphalt Surfacing

The contract price for this item shall include full compensation to prepare and compact existing subgrade, surface preparation and to furnish, place, and compact porous asphalt concrete pavement to the thickness and extents shown on the Plans and in accordance with the contract and specifications.

Bid Item No. A-17: Construct Asphalt Concrete Dike, Type A, SDRSD G-05

The contract price paid for this bid item shall constitute full payment for furnishing and placing a Type-A asphalt concrete dike to the extents shown on the Plans and in accordance with SDRSD G-05, the contract and specifications.

Bid Item No. A-18: Adjust Valve and Electrical Boxes to Final Grade

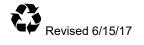
The contract price paid for this item shall include full compensation to protect, salvage, and adjust existing valve boxes and electrical boxes to final grade where indicated on the Plans.

Bid Item No. A-19: Modify Manhole Lid

The contract price paid for this item shall include full compensation to remove and dispose the existing manhole lid, frame, cover and concrete collar and to furnish and install a new frame, composite cover/lid; and to adjust to final grade as shown on the Plans.

Bid Item No. A-20: Seal Coat Existing AC Pavement and Berms

The contract price paid for this bid item shall constitute payment for providing an asphaltic seal coat per Section 203-9 to the extents shown on the Plans and in accordance with the contract and specifications. The area specified in the contract quantity shall receive two applications of seal coat applied per Section 302-8. Asphalt dikes within the seal coat extents shall also receive the seal coat. Asphalt dike surface area is included in the contract quantity.



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SUPPLEMENTAL PROVISIONS TO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION PART 2, CONSTRUCTION MATERIALS

SECTION 200 - ROCK MATERIALS

200-2 UNTREATED BASE MATERIALS

200-2.1 General.

Replace this subsection in its entirety with the following:

Materials for use as untreated base or subbase shall be classified in the order of preference as follows:

- a) Class II Aggregate Base conforming to Caltrans Standard Specification, Section 26: Aggregate Bases, Subsection 26-1.02B Class II Aggregate Base, ³/₄" maximum size.
- b) Crushed Miscellaneous Base conforming to subsection 200-2.4.

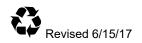
When base material without further qualification is specified, the Contractor shall supply Class II aggregate base. When a particular classification of base material is specified, the Contractor may substitute any higher classification of base material for that specified, following the order of preference listed above. All processing or blending of materials to meet the grading requirement will be performed at the plant or source. The materials shall compact to a hard, firm, unyielding surface and shall remain stable when saturated with water.

Add the following section:

200-2.2.4 Class II Aggregate Base.

Aggregate for Class II aggregate base shall be free from organic matter and other deleterious substances and shall be of such nature that it can be compacted readily under watering and rolling to form a firm, stable base. Aggregate may include material processed from reclaimed asphalt concrete, portland cement concrete, lean concrete base, cement treated base or a combination of any of these materials.

Aggregate shall conform to the grading and quality requirements shown in the following tables.



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AGGREGATE GRADING REQUIREMENTS Percentage Passing

3/4" Maximum

Sieve Sizes 2"	Operating Range
11/2" 1"	100
3/4"	90-100
No. 4	35-60
No. 30	10-30
No. 200	2-9

If the results of the aggregate grading test does not meet the requirements specified for "Contract Compliance," the aggregate base which is represented by these tests shall be removed. However, if requested by the Contractor and approved by the Engineer, the aggregate base may remain in place and the Contractor shall pay to the City 15 percent of the material cost per cubic yard for such aggregate base left in place. The City may deduct this amount from any moneys due, or that may become due, the Contractor under the contract.

No single aggregate grading test shall represent more than 500 cubic yards or one day's production, whichever is smaller.

200-2.4.3 Quality Requirements.

Add the following:

If the test results of the tests for either or both aggregate grading and Sand Equivalent tests do not meet the requirements specified, placement of the Crushed Miscellaneous Base may be continued for the remainder of the working day. Work shall not resume until tests indicate that the aggregate to be used complies with the requirements specified.

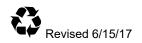
If the results of either or both the aggregate grading and Sand Equivalent tests do not meet the requirements specified, the Crushed Miscellaneous Base which is represented by these tests shall be removed. However, if requested by the Contractor and approved by the Engineer, the material may remain in place and the Contractor shall pay to the City 15 percent of the material cost per cubic yard for such aggregate base left in place. The City may deduct this amount from any moneys due, or that may become due, the Contractor under the contract. If both the aggregate grading and Sand Equivalent do not conform to the requirements for Crushed Miscellaneous Base, only one adjustment shall apply.

No single aggregate grading or Sand Equivalent test shall represent more than 500 cubic yards or one day's production, whichever is smaller.

SECTION 201 - CONCRETE, MORTAR, AND RELATED MATERIALS

201-1 PORTLAND CEMENT CONCRETE

TABLE 201-1.3.3 Modify as follows:



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TABLE 201-1.3.3 PORTLAND CEMENT CONCRETE

Type of Construction	Concrete Class	Maximum Slump Inches (mm)
All Concrete Used Within the Right-of-Way	560-C-3250 ⁽¹⁾ (330-C-23)	(2)
Trench Backfill Slurry	190-E-400 (115-E-3)	8" (200)
Street Light Foundations and Survey Monuments	560-C-3250 (330-C-23)	4" (100)
Traffic Signal Foundations	590-C-3750 (350-C-27)	4" (100)
Concreted-Rock Erosion Protection	520-C-2500P 310-C-17	per Table 300-11.3.1

⁽¹⁾ Except that concrete required to be of higher strength by Table 201-1.3.3 SSPWC shall be as per Table 201-1.3.3 SSPWC.

201-1.2.4 Chemical Admixtures.

Substitute the following:

(d) Air-Entraining Admixtures. The air content shall not deviate from the percentage specified or permitted by more than 1-1/2 percentage points. The air content of freshly mixed concrete will be determined by California Test 504.

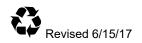
201-3 EXPANSION JOINT FILLER AND JOINT SEALANTS

201-3.4 Type "A" Sealant (Two-Part Polyurethane Sealant). Add the following: All finished concrete surfaces shall have a ½" continuous expansion joint at locations indicated on the plans and notes and shall be located either parallel or perpendicular to the curb line. When not otherwise indicated, all expansion joints located adjacent to colored concrete shall be sealant Type "A" and colored to match the color of the concrete surface.

Contractor shall provide joint sealants that have been produced and installed to establish and to maintain watertight and airtight continuous seals without causing staining or deterioration of joint substrates.

Contractor shall submit product data from the manufacturer of each joint sealant product required, including instructions for joint preparation and joint sealer application. Contractor shall also submit samples for initial selection purposes in form of manufacturer's standard bead samples, consisting of strips of actual products showing full range of colors available, for each product exposed to view. Samples shall be submitted to Engineer. Submit complete schedule of type (and location where type is to be used) of each sealant.

Contractor shall engage an experienced installer who has completed joint sealant applications similar in material, design and extent to that indicated for Project that have resulted in construction with a record of successful in-service performance.



⁽²⁾ As per Table 201-1.3.3 SSPWC.

Provide joint sealants, joint fillers, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by sealant manufacturer based on testing and field experience.

When matching existing colored concrete or for new colored concrete, provide color selections from manufacturer's full range of standard colors for products of type indicated. Sealant color parallel to curb line shall match color of Paving Treatment as specified in Section 303-7 of these Special Provisions.

Joint sealants shall be multi-component polyurethane sealant. Except as otherwise indicated, provide manufacturer's standard, non-modified, 2-or-more-part, polyurethane-based, elastomeric sealant complying with either ASTM-C920, Type M, Grade P, Class 25, or FS TT-S 0227E Class A, non-sag, Type II.

Acceptable Products: "Sonneborn NPII"; Sonneborn Building Products Division; "Scofield Lithoseal Trafficalk 3-G", L.M. Scofield Company; or equivalent, as approved by the Engineer.

Provide sealant backings of material and type that are nonstaining; are compatible with joint substrates, sealants, primers and other joint fillers; and are approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.

Plastic foam joint fillers shall be pre-formed, compressible, resilient, nonstaining, nonwaxing, nonextruding strips of flexible plastic foam either open-cell polyurethane foam or closed-cell polyethylene foam, subject to approval of sealant manufacturer, for cold-applied sealants only. Polystyrene foam is not acceptable.

SECTION 203 - BITUMINOUS MATERIALS

203-6 ASPHALT CONCRETE.

203-6.1 General. Add the following:

203-6.2.1. Asphalt Binder.

Add the following:

Wet Mix or Core sampled asphalt concrete will be considered in conformance with the mix design when the Asphalt Binder content is within +/-0.5% of the design mix and the gradation conforms to the grading as shown in Table 203-6.4.4. Deviations in gradation may be considered in conformance with the mix design provided the stability of the completed mix complies with the requirements for Hveem Stability per Table 203-6.4.4.

203-6.4 Asphalt Concrete Mixtures.

Add the following:

Conventional Asphalt concrete shall be class C2-PG64-10 and used to provide a surface course no more than 2 inches in depth. B-PG64-10 shall be used for base courses. Asphalt concrete



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shall be class D2-PG70-10 for dikes and class E-PG70-10 ditches. Asphalt Concrete for patches shall be C1-PG 64-10 RAP.

Add the following section:

203-17 ASPHALT PAVEMENT CRACK SEALANTS.

Hot pour liquid crack sealant shall be **Crafco Polyflex III** P/N 34521 Sealant. Storage and heating instructions and cautions will be supplied with each shipment. The sealant must be able to be reheated to application temperature at least once after the initial heat up without degradation of sealant specifications. Sealant shall have an application life at application temperature up to 12 to 15 hours.



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SUPPLEMENTAL PROVISIONS TO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

PART 3, CONSTRUCTION METHODS

SECTION 300 – EARTHWORK

Add the following section:

300-2.10 Grading Tolerance. The Contractor shall finish excavated areas other than slopes and subgrade below structures, within the roadway and sidewalk areas within 30 mm (0.1') of the grades shown on the plans. Subgrade tolerances shall conform to the requirements of section 301-1.4.

Add the following section:

300-12 STORM WATER POLLUTION PREVENTION PLAN

300-12.1 Storm Water Pollution Prevention Plan. As part of the storm water pollution prevention work, the Contractor shall prepare and submit Storm Water Pollution Prevention Plan, hereafter referred to as the "SWPPP,". The SWPPP shall conform to the requirements of the City of Carlsbad Engineering Standards Volume 4 "SWPPP Manual", "Greenbook" Standard Specifications for Public Works Construction, the requirements in the California Storm Water Quality Association, Stormwater Best Management Practice Handbook, Construction ("Handbook"), the requirements of the Permit, the requirements in the plans and these supplemental provisions.

300-12.2 SWPPP Document. Within 15 calendar days after the execution of the contract, the Contractor shall submit 3 copies of the SWPPP to the Engineer, in accordance with Section 2-5.3. If revisions are required, the Contractor shall revise and resubmit the SWPPP within 15 days of receipt of the Engineer's comments and shall allow 5 days for the Engineer to review the revisions. Upon the Engineer's acceptance of the SWPPP, 3 additional copies of the SWPPP, incorporating the required changes, shall be submitted to the Engineer.

The objectives of the SWPPP shall be to identify pollution sources that may adversely affect the quality of storm water discharges associated with the project and to identify, construct, implement and maintain storm water pollution prevention measures, hereafter referred to as control measures, to reduce to the extent feasible pollutants in storm water discharges from the construction site both during and after construction is completed under this contract.

The SWPPP shall incorporate control measures in the following categories:

- 1. Soil stabilization practices;
- 2. Sediment control practices;
- 3. Wind erosion control practices;
- 4. Non-storm water management and waste management and disposal control practices.
- 5. Daily street sweeping



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Specific objectives and minimum requirements for each category of control measures are contained in the Handbook.

The Contractor shall designate a Water Pollution Control Manager who will have the responsibilities outlined in the SWPPP.

The SWPPP shall include, but not be limited to, the following items as described in the SWPPP:

- 1. Source Identification;
- 2. Erosion and Sediment Controls:
- 3. Non-Storm Water Management;
- 4. Waste Management and Disposal;
- 5. Maintenance, Inspection and Repair;
- 6. Training;
- 7. List of Contractors and Subcontractors;
- 8. Post-Construction Storm Water Management;
- 9. Preparer;
- 10. Copy of the local permit;
- 11. BMP Consideration Checklist;
- 12. SWPPP Checklist;
- 13. Schedule of Values; and
- 14. Storm Water Pollution Prevention Drawings.

The Contractor shall amend the SWPPP, graphically and in narrative form, whenever there is a change in construction activities or operations which may affect the discharge of significant quantities of pollutants to surface waters, ground waters, municipal storm drain systems, or when deemed necessary by the Engineer. The SWPPP shall also be amended if it is in violation of any condition of the Permit or has not effectively achieved the objective of reducing pollutants in storm water discharges. Amendments shall show additional control measures or revised operations, including those in areas not shown in the initially accepted SWPPP, which are required on the project to control water pollution effectively. Amendments to the SWPPP shall be submitted for review and acceptance by the Engineer in the same manner specified for the initially accepted SWPPP. Accepted amendments shall be dated and logged in the SWPPP. Upon acceptance of the amendment, the Contractor shall implement the additional control measures or revised operations.

The Contractor shall keep a copy of the accepted SWPPP and accepted amendments at the project site. The SWPPP shall be made available upon request of a representative of the Regional Water Quality Control Board, State Water Resources Control Board, U.S. Environmental Protection Agency or local storm water management agency. Requests by the public shall be directed to the Engineer.

300-12.3 SWPPP Implementation. Upon acceptance of the SWPPP, the Contractor shall be responsible throughout the duration of the project for installing, constructing, inspecting and maintaining the control measures included in the SWPPP and any amendments thereto and for removing and disposing of temporary control measures. Unless otherwise directed by the Engineer or specified in these supplemental provisions, the Contractor's responsibility for SWPPP implementation shall continue throughout any temporary suspension of work ordered in accordance with Section 6-3, "Suspension of Work". Requirements for installation, construction,

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inspection, maintenance, removal and disposal of control measures are specified in the "Handbook" and these supplemental provisions.

Soil stabilization practices and sediment control measures, including minimum requirements, shall be provided throughout the rainy season, defined as between October 1 and April 30.

Implementation of soil stabilization practices and sediment control measures for soil-disturbed areas of the project site shall be completed, except as provided for below, no later than 20 days prior to the beginning of the rainy season or upon start of applicable construction activities for projects which begin either during or within 20 days of the rainy season.

The Contractor shall implement, year-round and throughout the duration of the project, control measures included in the SWPPP for sediment tracking, wind erosion, non-storm water management and waste management and disposal.

The Engineer may order the suspension of construction operations, at the Contractor's cost, which create water pollution if the Contractor fails to conform to the requirements of this section as determined by the Engineer.

300-12.4 Maintenance. To ensure the proper implementation and functioning of control measures, the Contractor shall regularly inspect and maintain the construction site for the control measures identified in the SWPPP, as described in Section 7-8. The Contractor shall identify corrective actions and time frames to address any damaged measures or reinitiate any measures that have been discontinued.

The construction site inspection checklist provided in the "Handbook" shall be used to ensure that the necessary measures are being properly implemented, and to ensure that the control measures are functioning adequately. The Contractor shall submit one copy of each site inspection record to the Engineer, within two days of the inspection.

During the rainy season, inspections of the construction site shall be conducted by the Contractor to identify deficient measures, as follows:

- 1. When the five-day rain probability forecast exceeds forty percent (40%).
- 2. After any precipitation which causes runoff capable of carrying sediment from the construction site;
- 3. At 24-hour intervals during extended precipitation events; and
- 4. Routinely, at a minimum of once every week.

If the Contractor or the Engineer identifies a deficiency in the deployment or functioning of an identified control measure, the deficiency shall be corrected by the Contractor immediately, or by a later date and time if requested by the Contractor and accepted by the Engineer in writing, but not later than the onset of subsequent precipitation events. The correction of deficiencies shall be at no additional cost to the City.

300-12.5 Payment. The contract lump sum price paid for the SWPPP work shall include full compensation for the design, submittal, obtaining approval, and amending the Tier 2 SWPPP and for furnishing all labor, materials, tools, equipment, and incidentals to install, implement, maintain and remove construction BMPs per the approved SWPPP. The most recent Tier 2 construction SWPPP Template is available on the City Website and an example is included in Appendix "D".



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Partial payment shall be based on the percentage of the total value of work completed.

SECTION 301 - SUBGRADE PREPARATION, TREATED MATERIALS AND PLACEMENT OF BASE MATERIALS

301-1 SUBGRADE PREPARATION.

301-1.2 Preparation of Subgrade.

Modify the second and third paragraphs as follows: Change each instance reading "150 mm (6 inches)" to "300 mm (12")".

301-1.3 Relative Compaction.

Delete the first paragraph and substitute the following:

The Contractor shall compact the upper 300 mm (12") of subgrade beneath areas to be paved, have base or subbase material placed on them (including pipelines), or curb, gutter, curb and gutter, alley pavement, driveway, sidewalk constructed over them, to no less than 95 percent maximum dry density as determined by ASTM D1557.

301-1.7 Payment.

Modify the first paragraph as follows:

Payment for subgrade preparation shall be incidental to the contract bid price for which the subgrade is prepared and shall include all labor, materials; including water, operations and equipment to scarify, adjust moisture, compact or recompact the subgrade, both in cut areas and in fill areas, and no further compensation will be allowed.

SECTION 302 - ROADWAY SURFACING

Add the following section:

302-8 SEALCOAT FOR MISCELLANEOUS AREAS.

302-8.3 Measurement and Payment. Modify as follows: Sealcoat material shall be paid for at the Contract Unit Price per square yard. The two layers of sealcoat shall be measured as one square yard.

Add the following section:

302-17 ASPHALT PAVEMENT REPAIRS AND REMEDIATION

302-17.1 Full Depth Asphalt Replacement. The area set forth in the bid items is for estimating purposes only and the final quantities will be as measured in the field by the City Inspector. The Inspector will designate and mark the final limits of the remove and replace areas in the field by outlining the area to be patched with paint. The Contractor shall remove the asphalt concrete in the designated area to the depth required per the requirements of subsection 404 of the SSPWC. The Contractor shall sweep the work area, keep dust to a minimum, and remove and dispose of the AC at the Contractor's expense. A tack coat of SS-1h



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emulsified asphalt shall be applied uniformly to all asphalt-to-asphalt contact surfaces in accordance with subsection 302-7.2. The Contractor shall fill the area with asphalt concrete and compact so that the finished surface of the new AC is flush with the surrounding pavement. The Contractor is required to use a self-propelled paving machine for areas 6 feet wide and wider.

302-17.2 Crack Sealing. All joints and cracks equal or >1/4" wide shall be cleaned to a minimum depth of 1" (25 mm) with high pressure air jet. No sealant material shall be placed until the joints and cracks have been cleaned of all loose dirt, old material, and are sufficiently dry. Both side walls of the cracks and joints must be free of dust and debris to assure optimum sealant adhesion. The joints and cracks shall be inspected and approved by the Inspector prior to placing the crack sealant material. Final joint and crack cleaning will be the same day of the sealing operation except as otherwise approved by the Inspector.

The Contractor shall dispose of debris from crack cleaning outside the public way in accordance with Section 7-8.1, "Cleanup and Dust Control." The hot-melt rubberized asphalt shall be melted in a jacketed, double boiler type melting unit. Temperature of the heat transfer medium shall not exceed manufacturer's recommendations. Application of the hot-melt sealant shall be made with a pressure feed applicator or pour pot. Sealant shall be applied when the pavement surface temperature is greater than 50°F. Containers of hot-melt rubberized sealant shall be delivered to the job-site in unopened containers that are clearly marked with data showing the manufacturer's name, the product designation and the manufacturer's batch number and lot numbers. The level of the sealant shall be flush with the surface of the existing pavement. All excess sealant shall be removed from the crack with a minimum overlap onto adjacent pavement. Crack sealant shall be allowed to cure for 7 days prior to the resurfacing.

302-17.3 Measurement and Payment. Quantities of pavement repairs as set forth in the bid items are for estimating purposes only. Final quantities will be as designated and measured in the field. The Engineer will designate and mark the limits of the repairs. Full compensation for conforming to the requirements of constructing pavement repairs shall include but not be limited to: furnishing all labor, tools, equipment, and materials necessary for doing the work as outlined in the appropriate section, including saw cutting and removing and disposing of existing asphalt concrete, pavement fabric, tree roots, aggregate base/subbase and basement soil as designated by the engineer, placement of asphalt concrete, compaction of subbase and asphalt concrete, placement of SS-1h asphalt emulsion and all other work incidental to the pavement repairs shall be considered as included in the contract unit price bid and no additional compensation will be allowed therefore.

The bid price for cold milling shall include removing and disposing of pavement fabric or geotextile when encountered.

Full compensation for conforming to the requirements of crack sealing shall include but not be limited to, furnishing all labor, materials, tools, equipment, and incidentals necessary to do the work. Crack cleaning, roadway clean up, application of sealant, removal of excess sealant and all other work incidental to crack sealing shall be considered as included in the contract unit price bid and no additional compensation will be allowed therefore.

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SECTION 303 CONCRETE AND MASONRY CONSTRUCTION.

303-1 CONCRETE STRUCTURES

303-1.2 Subgrade for Concrete Structures.

Add the following:

If groundwater is encountered, Contractor shall work a minimum 2' deep of 3/4" gravel into soil to provide an adequate base for construction of concrete structure.

303-1.11 Measurement.

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

Concrete structures will be measured for payment by each structure installed as specified in the bid schedule and in accordance to the plan and any referenced standard drawings.

303-1.12 Payment.

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

Payment for concrete structures will be made as set forth in the Bid Schedule. Payment shall include compensation for furnishing all labor, materials, tools, and equipment necessary to construct the concrete structures complete in place. Items shall include submittal of PCC mix design for approval, structure excavation, subgrade and base preparation, furnishing PCC and casting-in-place, steel reinforcement, forms, covers, rims, grates, frames, collars, cone and draft sections, bases, steps, clean up; and for all other work necessary to install the concrete structure, complete in place, and no additional compensation will be allowed therefor.

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

303-5.1.1 General.

Add the following:

Portland Cement Concrete construction shall include, but not limited to, curbs, walkways, cross gutters, access ramps, driveways, concrete curb outlet, terrace ditches, and all other miscellaneous PCC construction items as indicated on the plans and per these Specifications.

Removal of adjacent asphalt concrete and aggregate base removal associated with concrete curb construction shall be replaced with full depth asphalt concrete with a minimum width of one foot perpendicular to the face of concrete edge. The replaced section shall conform to the requirements of Sections 203-6, 302-5, 401-3 and match the depth of the adjacent concrete gutter.

The Contractor shall verify with a "smart level", string line and/or water testing that positive drainage is maintained upon completion of finishing, and any irregularities causing water ponding shall be corrected and refinished. The CITY shall be present to verify the concrete forms, prior to pouring any PCC construction improvements.

303-5.5.2 Curb.



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Add the following:

The Contractor shall stamp the curb face with 75 mm (3") high block letters directly above the point that it is crossed by underground facilities with the marking specified in Table 303-5.5.2(A)

TABLE 303-5.5.2(A) Curb Face Markings

Type of underground facilities	Marking
Water Service Lateral	W
Sewer Service Lateral	S
Irrigation Water Lateral or Sleeve	RW

303-5.9 Measurement and Payment.

Add the following:

Curb and gutter, and curb, shall be considered as continuing across driveways, access ramps and drainage inlets when constructed adjacent thereto. Neither curb and gutter nor curb will be paid for across the length of local depressions, except that which occurs in gutter transitions at each side of an inlet.

SECTION 306 – OPEN TRENCH CONDUIT CONSTRUCTION

306-3 TRENCH EXCAVATION

Add the following:

306-3.1 General. When the actual elevation or position of any existing pipe, conduit, or other underground appurtenances cannot be determined without excavation, the Contractor shall excavate and expose the existing improvement at the location shown on the Plans and any other locations deemed necessary by the Engineer. Such excavation shall be considered as part of the excavation necessary for the work. The Engineer shall be given the opportunity to inspect the existing improvements when it is exposed. Any adjustments in line or grade which may be necessary to accomplish the intent of the plans shall be made at no additional costs.

Add the following:

306-3.2 Removal of Surface Improvements.

Add the following:

Bituminous pavement, concrete pavement, curbs, sidewalks, or driveways removed in connection with construction shall be removed in accordance with Subsection 401 of the Standard Specifications and these Special Provisions and reconstructed in-kind.

306-3.5 Maximum Length of Open Trench.

Delete the first sentence for the first paragraph and replace with the following:

Except by permission of the Engineer, the maximum length of open trench where prefabricated pipe is used shall be the distance necessary to accommodate the amount of pipe installed and backfilled in a single day.



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306-12 BACKFILL

306-12.1 General.

Add the following:

The Contractor shall install detectable underground utility marking tape above each or, in the case of bundled underground conduit of the same type, the upper underground conduit being installed by the open trench method.

Delete the following section in its entirety and replace with the following:

306-12.3.2 Compaction Requirements. The Contractor shall densify trench backfill to a minimum of 90 percent relative compaction except that in the top 915 mm (36") of the street right-of-way, compaction shall be 95 percent.

306-13 TRENCH RESURFACING

306-13.1 Temporary Resurfacing.

Add the following:

Temporary bituminous resurfacing materials which are placed by the Contractor are for its convenience and shall be at no cost to the Agency. Temporary bituminous resurfacing materials shall be used in lieu of permanent resurfacing only when approved by the Engineer. When temporary bituminous resurfacing materials are used in lieu of permanent resurfacing it shall be removed and replaced with permanent resurfacing within 7 days of placement. No additional payment will be made for temporary bituminous resurfacing materials. The price bid for the associated conduit or structure shall include full compensation for furnishing, placing, maintaining, removing, and disposing of such temporary resurfacing materials.

306-13.2 Permanent Resurfacing.

Add the following:

Except as provided in section 306-13.1, "Temporary Resurfacing," the Contractor shall perform permanent trench resurfacing within 24 hours after the completion of backfill and compaction of backfill and aggregate base materials.



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SUPPLEMENTAL PROVISIONS TO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

PART 4, EXISTING IMPROVEMENTS

SECTION 400 - PROTECTION AND RESTORATION

400-1 GENERAL

Add the following:

The Contractor shall replace all pavement striping, markings and markers which are not designated for removal and are damaged as a result of its operations.

400-2 PERMANENT SURVEY MARKERS

Delete the second paragraph and subparagraphs a), b) and c).

400-3 PAYMENT.

Delete in its entirety and replace with the following:

No separate or additional payment will be made for 1) protection of existing improvements, and 2) restoration of existing improvements.

No separate or additional payment will be made to restore permanent survey makers.

SECTION 401 – REMOVAL

401-3 CONCRETE AND MASONRY IMPROVEMENTS

401-3.2 Concrete Curb, Walk, Gutters, Cross Gutters, Curb Ramps, Driveway and Alley Intersections.

Delete the third and fourth sentence and add the following:

All existing concrete shall be removed to the nearest joint. Concrete shall be removed to neatly sawed edges with saw cuts made to a depth deep enough to produce a clean straight break without loosening, cracking or damaging adjoining improvements. PCC and all other material unsuitable for use as fill, as determined by the Engineer, shall be removed from the right-of-way and disposed of by the Contractor at a site of his own choice and shall pay all costs incidental to the disposal.

Add the following section:

401-3.2.1 Adjacent Asphalt Concrete Removal. Removal of asphalt concrete and aggerate base associated with concrete driveway, AC Dike, ramp, curb and/or gutter construction shall be replaced with full depth asphalt concrete to a minimum width of one foot perpendicular from face of nearest concrete edge. Removal of adjoining asphalt section and the full depth replacement is incidental to the concrete curb and gutter work as described in section 303-5.



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