

# Notice to Contractors,

# PROPOSAL,

## AGREEMENT, &

# Special Provisions

FOR CONSTRUCTION ON
Project No: 20-026
RWQCF Flotator No. 3 Recoating

IN STANISLAUS COUNTY, TURLOCK, CALIFORNIA.

Development Services Department/ Engineering Division

Phone: (209) 668-5417 Contact Person: Stephen Fremming

### Nathan Bray, PE

Interim Development Services Director/City Engineer

Proposals shall be delivered to Turlock, California at or before 11:00 AM on Thursday, June 10, 2021 at the office of the City Engineer,

Development Services: Engineering Division

156 S. Broadway, Suite 150 Turlock, CA 95380

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# CITY OF TURLOCK, CALIFORNIA NOTICE TO CONTRACTORS

Sealed proposals will be received by the City Engineer of the City of Turlock, Development Services/Engineering Division, 156 S. Broadway, Suite 150, Turlock, California 95380, until 11:00 AM on Thursday, June 10th, 2021, for:

### City Project No. 20-026 RWQCF Flotator No. 3 Recoating

In accordance with and as described and provided in the plans, specifications and the proposed form of contract therefore, all of which are on file in the office of the City Engineer, and to which special reference is hereby made.

No verbal, telegraphic, electronic mail, facsimile, or telephone Proposals shall be considered.

A Mandatory Pre-Bid meeting will be held on June 1, 2021 at 9:00 AM at the Turlock Regional Water Quality Control Facility, 901 S. Walnut Road, Turlock, CA 95380. Only prime contractors who intend to bid on the project are required to attend. Sub-contractors and suppliers may attend but are not required to do so.

Proposals are required to be complete and for the entire work, materials and improvements unless the contrary is indicated in the specifications.

In accordance with the provisions of California Business and professions Code, Section 7028, Contractor shall possess one of the following Contractor license(s) at the time of bid and for the duration of the contract:

### 1. C33 - Painting and Decorating Contractor

Failure to possess the specified license(s) shall render the Bid as non-responsive, shall act as a bar to award of the contract to any Bidder not possessing said license(s) at the time of Bid opening and shall result in the forfeiture of the security of said Bidder. Furthermore, any Bidder or Contractor not so licensed shall be subject to all legal penalties imposed by law, including, but not limited to, any appropriate disciplinary action by the Contractor's License Board.

Each proposal must be accompanied by cash, cashier's check, or check certified by a responsible bank, or by a bid bond, the proposed form of which is on file in the office of the City Engineer of said City and to which special reference is hereby made in a sum not less than ten percent (10%) of the total amount bid, payable to the City of Turlock as liquidated damages in the case the bidder is awarded the contract and fails within ten (10) days after the date of mailing to him by the City Engineer of a notice of award of the contract and that the contract is ready for signature to execute the above-mentioned written contract and file with the City Engineer satisfactory insurance certificates as required by the terms of said contract and satisfactory bonds as required by law for the faithful performance of said contract and for the protection of material, men and laborers. Special reference is hereby made to Sections 5100, et.

seq., of the Public Contracts Code of the State of California and to the proposed forms for said bonds now on file in the office of the said City Engineer for further particulars regarding bonds.

Pursuant to Section 1773 of the Labor Code, the general prevailing wage rates in the county of Stanislaus in which the work is to be done have been determined by the Director of the California Department of Industrial Relations. These wages are set forth in the General Prevailing Wage Rates for this project, available at 156 S. Broadway St, Turlock, CA 95380 and available from the California Department of Industrial Relations' Internet web site at http://www.dir.ca.gov/DLSR/PWD.

Bidders' attention is directed to the insurance requirements in the contract. It is highly recommended that bidders confer with their respective insurance carriers or brokers to determine in advance of bid submission the availability of insurance certificates and endorsements prescribed and provided herein. If an apparent low bidder fails to comply strictly with the insurance requirements, that bidder may be disqualified from award of the contract.

No proposal will be considered unless made on forms furnished by the City Engineer of said City at his office of said City. Each proposal must be sealed, and the envelope containing the same must be addressed to the City Engineer of the City of Turlock and must be plainly marked. Each proposal shall clearly identify the bidders name and address on the sealed envelope.

Each bid shall separately state in figures the price offered for the approximate quantity of each item set forth and shall also state in words and figures the total contract price. Quantities set forth in the proposal form and in the specifications are approximate only, being given as a basis for comparison of bids, and the City of Turlock does not expressly or implied agree that the actual amount of work or materials will correspond therewith, but reserves the right to increase or decrease the amount of any class or portion of the work or materials as may be deemed necessary by the City Engineer.

Proposals may not be withdrawn for a period of sixty (60) days after the time fixed for opening of proposals. The City Council of the City of Turlock reserves the right to reject any and all proposals or any part thereof and to waive any errors or informalities in any proposals and to set and act as sole judge of the merit and qualifications of the equipment, supplies or services offered.

At the request and expense of Contractor, pursuant to Division 2, Part 5, Section 22300, et. seq., of the Public Contracts Code, securities equivalent to any funds withheld as retention from progress payments made under this contract may be deposited with the City of Turlock or with a State or Federally chartered bank as escrow agent, who shall pay such moneys to Contractor upon completion of the contract.

Copies of the Contract Documents, including Instructions to Bidders, Bid Proposal forms, Plans and Specifications, may be downloaded from the engineering division's web site or purchased for a non-refundable fee of **Forty** dollars **(\$40)** at the Office of the City Engineer, 156 S. Broadway, Ste. 150, Turlock, CA 95380, Phone (209) 668-5520. For additional information, go to <a href="http://www.cityofturlock.org/capitalprojects">http://www.cityofturlock.org/capitalprojects</a>

The U.S. Department of Transportation (DOT) provides a toll-free "hotline" service to report bid rigging activities. Bid rigging activities can be reported Mondays through Fridays, between 8:00 a.m.

and 5:00 p.m., Eastern Time, Telephone No. 1-800-424-9071. Anyone with knowledge of possible bid rigging, bidder collusion, or other fraudulent activities should use the "hotline" to report these activities. The "hotline" is part of the DOT's continuing effort to identify and investigate highway construction contract fraud and is operated under the direction of the DOT Inspector General. All information will be treated confidentially and caller anonymity will be respected.

No contractor or subcontractor may be listed on a bid proposal for a public works unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5. No contractor or subcontractor may be awarded a contract for public work on a public works unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5.

This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations. The contractors and subcontractors must furnish electronic certified payroll records to the Labor Commissioner.

The contractor shall post job site notices prescribed by regulation. (See 8 Calif. Code Reg. §16451(d) for the notice that previously was required for projects monitored by the CMU.)

DATED:

CITY OF TURLOCK

Ву: \_

Nathan Bray, PE

Interim Development Services Director / City Engineer

### **PROPOSAL**

### Project No. 20-026

### **RWQCF Flotator No. 3 Recoating**

City of Turlock, California	
DATED:	
To: The Honorable City Council of the City of Turlock, California:	
NAME OF BIDDER:	_
BUSINESS ADDRESS:	_
PLACE OF RESIDENCE:	

Bids are to be submitted for the entire work. The amount of the bid for comparison purposes will be the total of all items. The bidder shall set forth for each unit basis item of work a unit price and a total for the item, and for each lump sum item a total for the item, all in clearly legible figures in the respective spaces provided for that purpose.

In the case of unit basis items, the amount set forth under the "Item Total" column shall be the product of the unit price bid and the estimated quantity for the item. In case of discrepancy between the unit price and the total set forth for a unit basis item, the unit price shall prevail except as provided in (a) or (b), as follows:

- (a) If the amount set forth as unit price is unreadable or otherwise unclear, or is omitted, or is the same as the amount as the entry in the item total column, then the amount set forth in the item total column for the item shall prevail and shall be divided by the estimated quantity for the item and the price thus obtained shall be the unit price;
- (b) (Decimal Errors) If the product of the entered unit price and the estimated quantity is exactly off by a factor of ten, one hundred, etc., or one-tenth, or one-hundredth, etc. from the entered total, the discrepancy will be resolved by using the entered unit price or item total, whichever most closely approximates percentage wise the unit price or item total in the Department's Final Estimate of cost.

### PROPOSAL SUBMITTAL CHECKLIST

The bidder shall provide a complete proposal in a sealed envelope before 11:00 AM on Thursday June 10, 2021 at the address shown on the cover sheet of these specifications. FAILURE TO PROVIDE ALL THE REQUIRED DOCUMENTS LISTED IN THE TABLE BELOW MAY CAUSE THE PROPOSAL TO BE CONSIDERED NON-RESPONSIVE.

Complete Proposal	Page No.
☐ PROPOSAL AND BIDDING FORM	5-8
☐ AFFIDAVIT	9
☐ INFORMATION REQUIRED OF BIDDER	10-11
☐ BIDDER'S BOND	12-13
☐ LIST OF SUBCONTRACTORS	14
* Signing the bid form constitutes acceptance and certification	

In accordance with the annexed Notice to Contractors, the undersigned, as bidder, declares that he has carefully examined the location of the proposed work, the plans, specifications and technical requirements therefore, and the proposed forms of contract and bonds mentioned or referred to in said Notice and on file in the office of the City Engineer of the City of Turlock, together with the prevailing rate of per diem wages for each craft or type of workmen needed to execute said contract; and he proposes and agrees that if this proposal is accepted, he will furnish all labor, materials, equipment, plant transportation, service, sales taxes, permit fees and other costs necessary to complete the construction in strict conformity to the plans and specifications and he will enter into a written contract with the City of Turlock in the form of contract on file in the Office of the City Engineer for such purposes, and that he will execute and/or provide all bonds and insurance certificates required by law and/or by said contract and/or mentioned in said Notice to Contractors all in accordance with and subject to all applicable laws, and that he will take in full payment therefore the following unit prices,

to wit:

### **BIDDING FORM**

PROJECT TITLE: RWQCF Flotator No. 3 Recoating

PROJECT NUMBER: 20-026

OPENING DATE: June 10, 2021

**OPENING TIME:** 11:00 AM

Item		Unit of	Estimated		
No.	Item Description	Measure	Quantity	Unit Price	Total
1	Mobilization and Demobilization	LS	1		
2	RWQCF Floatator No. 3 Recoating	LS	1		
3	Concrete Effluent Box Recoating	SF	110		
Subt					

Bidder has examined and carefully studied the Bidding documents and other related data identified in the Bidding Documents and the following Addenda, receipt of which is hereby acknowledged

### **ADDENDA**

No	Date	 Signed
No	Date	 Signed
No	Date	 Signed
TOTAL BID WR	ITTEN IN FIGURES:	\$ ,
TOTAL BID WR	ITTEN IN WORDS:	
CONTRACTOR	:	

DV				
BY:				_
ADDRESS:				
	(Number)	(Str	eet)	
	(City)	(State)	(ZIP)	
CONTRAC	TOR'S PHONE #:			
<b>EXPIRATION</b>	ON DATE, AND AP	BE REQUIRED TO LISPROPRIATE STATEMENT	T REGARDING PERJURY	ANI
EXPIRATION SIGNED B ABOVE ITI	ON DATE, AND AP Y INDIVIDUAL AU EMS MAY CAUSE SA	PPROPRIATE STATEMEN ITHORIZED TO DO SO. AID CONTRACTOR'S BID	FREGARDING PERJURY FAILURE TO INCLUD TO BE REJECTED.	Y AND E THI
EXPIRATION SIGNED BABOVE ITI	ON DATE, AND AP Y INDIVIDUAL AU EMS MAY CAUSE SA	PROPRIATE STATEMEN ITHORIZED TO DO SO.	FREGARDING PERJURY FAILURE TO INCLUD TO BE REJECTED.	Y AND E THI
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EXPIRATION SIGNED B ABOVE ITI  (Company's Expires This informatis made here X	ON DATE, AND AP Y INDIVIDUAL AU EMS MAY CAUSE SA  Name)  . I	PROPRIATE STATEMENT ITHORIZED TO DO SOLAID CONTRACTOR'S BID, Contractor's ID, Contractor's ID	FAILURE TO INCLUD TO BE REJECTED.  icense #, Class e Business and Professions Co	Y AND E THI

If the proposal is accepted and the undersigned shall fail to contract as aforesaid and fail to file with the City insurance certificates as required by said contract, within fourteen (14) days after the bidder has received notice from the City Engineer or his representative of the City of Turlock that the contract has been awarded to bidder and is ready for signature, the City of Turlock may, at its option, determine that the bidder has abandoned his contract, and thereupon this proposal and the acceptance thereof shall be null and void.

Also accompanying this proposal is an affidavit of non collusion and questionnaire to general contractors, a statement of proposed sub-contractors, if any, the address of mill, shop or office of any sub-contractor, and a statement of work to be performed by sub-contractors.

The names and addresses of persons interested in the foregoing proposal as principals are as follows:

(**IMPORTANT NOTICE**: If bidder or other interested person is a corporation, state legal name of corporation, also names of the president, secretary, treasurer, and manager thereof; if a partnership, state true name of firm, also names of all individual co partners composing firm; if bidder or other interested person is an individual, state first and last name in full.)

Licensed in accor-	dance with an act providing for the registration of Contractors,
License No	Expiration Date
DATED:	
Address:	
Phone:	
X	
	Signature of Bidder

NOTE: If bidder is a corporation, the legal name of the corporation shall be set forth above together with the signature of the officers authorized to sign contracts on behalf of the corporation; if bidder is a co-partnership, the true name of the firm shall be set forth above together with the signature of the partner or partners authorized to sign contracts in behalf of the co-partnership; and, if bidder is an individual, his signature shall be placed above. If a signature is by an agent other than an officer of a corporation or a member of the partnership, a Power of Attorney must be on file with the City Clerk prior to opening or submitted with the bid; otherwise, the bid will be disregarded as irregular and unauthorized.

### **AFFIDAVIT**

The undersigned bidder, being first duly sworn, deposes and says that he/she are the party making the foregoing proposal or bid, that this bid is genuine and not collusive or sham, that said bidder has not colluded, conspired, connived or agreed, directly or indirectly, with any other person or bidder, to put in a sham bid, or that said other person shall refrain from bidding, and has not in any manner sought by collusion to secure any advantage against the said City or any person interested in said improvement, for him/herself or any other person.

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and and an artist of the state

### INFORMATION REQUIRED OF BIDDER

The Contractor shall have a minimum of five (5) years experience applying coatings to municipal and/or industrial equipment for at least five (5) years immediately prior to this project. Contractor shall provide evidence of performing coating work on a minimum of one (1) clarifier, or similar structure, per year for the past five years. Contractor shall demonstrate its experience in meeting this requirement using the forms included in this section (attach additional sheets as necessary).

The bidder is required to provide the following information. Additional sheets may be attached if necessary. Contractor's name: Contractor's mailing address: Contractor's telephone number: Number of years experience as a contractor in construction work or installation work similar to that required in these specifications: Name of person who inspected the site of the proposed work for your firm: Date of Inspection: List at projects completed as of recent date: Project No. and Title: Class and Type of Work: Name, Address, and Phone No. of Owner Registered Engineer in Charge of Project: Total Contract amount: Contract amount you performed: Name of Prime Contractor if you were Sub: Date Completed: Liquidated Damages Assessed: Project No. and Title: Class and Type of Work: Name, Address, and Phone No. of Owner Registered Engineer in Charge of Project:

Total Contract amount:

Contract amount you performed:	
Name of Prime Contractor if you were Sub:	
Date Completed:	
Liquidated Damages Assessed:	
D N 1 Test	
Project No. and Title:	
Class and Type of Work:	
Name, Address, and Phone No. of Owner	
Registered Engineer in Charge of Project:	
Total Contract amount:	
Contract amount you performed:	
Name of Prime Contractor if you were Sub:	
Date Completed:	
Liquidated Damages Assessed:	
Project No. and Title:	
Class and Type of Work:	
Name, Address, and Phone No. of Owner	
Registered Engineer in Charge of Project:	
Total Contract amount:	
Contract amount you performed:	
Name of Prime Contractor if you were Sub:	
Date Completed:	
Liquidated Damages Assessed:	
Enquirated Burninges Fissessed.	
Project No. and Title:	
Class and Type of Work:	
Name, Address, and Phone No. of Owner	
Registered Engineer in Charge of Project:	
Total Contract amount:	
Contract amount you performed:	
Name of Prime Contractor if you were Sub:	
Date Completed:	
Liquidated Damages Assessed:	

### **BIDDER'S BOND**

NOW ALL MEN BY THESE PRESENTS:	
hat we	as
IDDER, and	as
URETY a corporation duly organized under the laws of the State of	
nd duly licensed to become sole Surety on bonds required and authorized by the State of Califor	
URETY, are held and firmly bound unto the City of Turlock, hereinafter called the City, in the	penal
ım of TEN PERCENT (10%) OF THE TOTAL AMOUNT OF THE BID of the Bidder above n	-
abmitted by said Bidder to the City, for the work described below, for the payment of which s	sum in
wful money of the United States, well and truly to be made, we bind ourselves, our heirs, exec	cutors,
dministrators and successors, jointly and severally, firmly by these presents. In no case shall the li	ability
f the Surety hereunder exceed the sum	
ollars ( \$).	
HE CONDITION OF THIS OBLIGATION IS SUCH THAT, whereas the bidder has submitt	ed the
pove-mentioned bid to the City for certain construction specifically described as follows for which	
re to be opened at Engineering Division, Development Services Department, City Hall, 1	
roadway Suite 150, Turlock, California, on	. 30 5.
Toutway Suite 150, Pariotek, Samorina, on	
or Project No. 20-026, "RWQCF Flotator No. 3 Recoating."	

NOW, THEREFORE, if the aforesaid Bidder is awarded the contract and, within the time manner required under the specifications after the prescribed forms are presented to him for signature, enters into a written contract in the prescribed form in accordance with the bid, and files the two bonds with the City, one to guarantee faithful performance and the other to guarantee payment for labor and materials as required by law, then obligation shall be null and void; otherwise, it shall be and remain in full force and virtue.

In the event suit is brought upon this bond by the Obligee and judgment is recovered, the Surety shall pay all costs incurred by the Obligee in such a suit, including a reasonable attorney's fee to be fixed by the court.

, 201
(SEAL)
<u> </u>
_
GMENT OF BIDDER)
_(SEAL)
)
_
GMENT OF SURETY'S

NOTE: ATTACH CERTIFIED COPY OF POWER OF ATTORNEY

### SUB-CONTRACTORS

### City Project No. 20-026

### **RWQCF Flotator No. 3 Recoating**

Prime Contr	ractor:		DIR NUME	BER:	
service to the to the prime Contract Do construction greater. After subcontractors	te prime Contractor in or about e Contractor, specially fabricated ocuments, in an amount in entering of streets or highways, inclusiver the opening of Bids, no character for each item of Work to be	at the construction of the and installs a port excess of 1/2 of 1 perding bridges, in excess anges or substitutions are performed with the variation of the substitution of the substituti	he Work or improvement, ion of the Work or improvement of the prime Contrast of 1/2 of 1 percent of the will be allowed except as a words "and/or" will not be		ontract in the for the never is
IF NO SUBO	CONTRACTORS WILL FUR	NISH WORK, THEN	WRITE "NONE" BELOV	W IN THE SPACE PROVIDED.	
NAME	LICENSE NUMBER	DIR NUMBER	ADDRESS	WORK ITEMS TO BE PERFORMED AND % OF ITEM	1

### **AGREEMENT**



### FOR PUBLIC IMPROVEMENT

### Project No. 20-026

### **RWQCF Flotator No. 3 Recoating**

THIS PUBLIC IMPROVEMENT AGREEMENT (the "Agreement") is entered into by and

between the CITY OF TURLOCK, a California municipal corporation ("City"), and
, a(" <u>Contractor</u> "), on this day of20 (the
"Effective Date"). City and Contractor may be collectively referred to herein as the "Parties" or
individually as "Party." There are no other parties to this Agreement.
RECITALS
A. City seeks a duly qualified and licensed firm experienced in the construction of Project No. 20-026, "RWQCF Flotator No. 3 Recoating" (the "Project").
B. The Project involves the expenditure of funds in excess of \$5,000 and constitutes a "public project" pursuant to Public Contract Code section 20161.
C. Contractor has made a proposal to City to provide construction services, a copy of which is attached and incorporated hereto as <b>Exhibit A</b> (the " <u>Services</u> ").
D. City has determined it is necessary and desirable to employ the services of Contractor to perform construction work on the Project.
E. City has taken appropriate proceedings to authorize construction of the Project and execution of this contract pursuant to Public Contract Code section 20160 et seq.; specifically, or

**NOW, THEREFORE,** in consideration of the promises and covenants set forth below, the Parties agree as follows:

### **AGREEMENT**

- 1. Contract Documents: This Agreement, together with the following documents, are collectively referred to herein as the "Contract Documents":
  - i. Notice to Bidders;
  - ii. Contractor's Bid or Proposal accepted by City;
  - iii. General Conditions, Supplementary Conditions, and Special Provisions of the City of Turlock for Project No. 20-026, "RWQCF Flotator No. 3 Recoating;"
  - iv. Plans and detailed drawings prepared for this Project and approved by City ("Project Plans");
  - v. All bonds and insurance required by the Contract Documents;
  - vi. Any and all supplemental agreements amending, decreasing, or extending the work contemplated or which may be required to complete the work in a substantial and acceptable manner; and
  - vii. The current edition of the City of Turlock Standard Specifications and Drawings.

All of the Contract Documents are intended to incorporate the terms of the others so that any work called for in one and not mentioned in the other, or vice versa, is to be executed the same as if mentioned in all said documents. The documents comprising the complete contract will hereinafter be referred to as the "Contract." In case of any dispute regarding the terms of the Contract, the decision of the City Engineer shall be final.

2. Term. The Contract shall be effective as of the Effective Date first stated above. Contractor shall not commence work on the Project until it has been given notice by City ("Notice to Proceed"). The Contract shall terminate one (1) year after City accepts Contractor's performance of the Services (the "Term"), unless the Parties mutually agree in writing to terminate the Contract earlier or extend the Term in an agreed writing executed by both Parties.

### 3. Scope of Work.

- (a) Services. Contractor shall perform the Services described in Exhibit A, subject to all terms and conditions in the Contract. Contractor shall not receive additional compensation for the performance of any Services not described therein.
- (b) *Modification*. City, at any time, by written order, may make changes within the general scope of the work under this Agreement or issue additional instructions, require additional work or direct deletion of work. Contractor shall not proceed with any change involving an increase or decrease in the Contract Price, as defined in Section 4 of this Agreement, or the Completion Schedule without prior written authorization from City. Contractor shall not be entitled to compensation for the performance of any such unauthorized work. Contractor further waives any and all right or remedy by way of restitution or quantum meruit for any and all extra or changed work performed without express and prior written authorization of City. Notwithstanding the foregoing, Contractor shall promptly commence and diligently complete any change to the work subject to City's written authorization issued pursuant to this Section; Contractor shall not be relieved or excused from its prompt commencement

of diligent completion of any change subject to City's written authorization by virtue of the absence or inability of Contractor and City to agree upon the extent of any adjustment to the Completion Schedule or Contract Price on account of such change. The issuance of a Change Order pursuant to this Section 3 in connection with any change authorized by City shall not be deemed a condition precedent to Contractor's obligation to promptly commence and diligently complete any such change authorized by City hereunder. City's right to make changes shall not invalidate the Contract nor relieve Contractor of any liability or other obligations under the Contract. Any requirement of notice of changes in the scope of work to Contractor's surety shall be the responsibility of Contractor.

- (c) Specific Materials & Performance of Work. Contractor shall furnish all tools, equipment, facilities, labor, and materials necessary to perform and complete, in good workmanlike manner, the work of general construction as called for and in the manner designated in, and in strict conformity with, the plans and specifications for said work entitled, "General Conditions and Special Provisions for Project No. 20-026, "RWQCF Flotator No. 3 Recoating." The equipment, apparatus, facilities, labor, and material shall be furnished, and said work performed and completed as required by the Contract under the direction and supervision, and subject to the approval, of the City Engineer of or City Engineer's designated agent.
- (d) *Exhibits*. All "Exhibits" referred to below or attached hereto are, by this reference, incorporated into the Contract.

	Exhibit Designation	Exhibit Title
1.	Exhibit A	Scope of Services
2.	Exhibit B	Payment by Force Account
3.	Exhibit C	Workers' Compensation Insurance Certification
4.	Exhibit D	Performance Bond
5.	Exhibit E	Payment Bond

### 4. Contract Price.

City shall pay, and Contractor shall accept in full payment for the work set forth above in Section 3, Scope of Work, an amount not to exceed \_\_\_\_\_\_\_\_ Dollars (\$\_\_\_\_\_\_\_.00) (the "Contract Price"). Said amount shall be paid pursuant to Section 8 of this Agreement. The Contract Price may only be changed by a contract change order. The value of any work covered by a contract change order for an adjustment in the Contract Price will be determined in the sole discretion of City as follows:

If the work performed is on the basis of unit prices contained in the Contract Documents, the change order will be determined in accordance with the provisions in Section 4-1.05, "Changes and Extra Work", of the Caltrans Standard Specifications, as applicable; or

If the work performed is not included on the engineer's estimate associated with a unit price, the change order will be by a mutually agreed lump sum; or

If the change order is not determined as described above in either subdivision (a) or (b), the change order will be determined on the basis of force account in accordance with the provisions set forth in Exhibit B, "Payment by Force Account," attached hereto and incorporated herein by reference.

### 5. Time for Performance.

The time fixed for the commencement of work under the Contract is within ten (10) working days after the Notice to Proceed has been issued. The work on this project, including all punch list items, shall be completed on or before the expiration of Forty Five (45) working days (the "Completion Date") beginning on the first day of work or no later than the tenth day after the Notice to Proceed has been issued.

(a) Right of City to Increase Working Days: If Contractor fails to complete the Services by the Completion Dates, the City Engineer shall have the right to increase the number of working days in the amount the City Engineer may determine will best serve the interests of City, and if the City Engineer desires to increase said number of working days, the City Engineer shall have the further right to charge Contractor and deduct from the final payment for the work the actual cost of engineering, inspection, superintendence, and other overhead expenses which are directly chargeable to Contractor, and which accrue during the period of such extension, except that the cost of the final service and preparation of the final estimates shall not be included in such charges. No extension of time for completion of Services under the Contract shall be considered unless requested by Contractor at least twenty (20) calendar days prior to the Completion Dates, in writing, to the City Engineer.

The Completion Dates may only be changed by a contract change order. The value of any work covered by a contract change order for an adjustment in the Completion Dates will be determined as follows:

- i. Additional working days will be awarded where the amount of time is mutually agreed upon by Contractor and the City Engineer; or
- ii. Additional working days will be awarded where Contractor is prevented from completing any part of the work identified on the critical path and:
  - 1. where the delay is caused by acts of public enemy, fire, floods, tsunamis, earthquakes, epidemics, quarantine restrictions, strikes, labor disputes, shortage of materials and freight embargos, provided that Contractor shall notify Engineer in writing of the causes of delay within fifteen (15) days from the beginning of that delay; or
  - 2. where the delay is caused by actions beyond the control of Contractor; or
  - 3. where the delay is caused by actions or failure to act by the City Engineer.

Contractor shall not be entitled to an adjustment in the Completion Dates for delays within the control of Contractor. Delays resulting from and within the control of a subcontractor or supplier of Contractor shall be deemed to be delays within the control of Contractor.

(b) Excusable Delays. Contractor shall not be in breach of the Contract in the event that performance of Services is temporarily interrupted or discontinued due to a "Force Majeure" event which is defined as: riots, wars, sabotage, civil disturbances, insurrections, or explosions; natural disasters, such as floods, earthquakes, landslides, and fires; strikes, lockouts,

and other labor disturbances; or other catastrophic events, which are beyond the reasonable control of Contractor. Force Majeure does not include Contractor's financial inability to perform, Contractor's failure to obtain any necessary permits or licenses from other governmental agencies, or Contractor's failure to obtain the right to use the facilities of any public utility where such failure is due solely to the acts or omissions of Contractor. If Contractor's performance of the Services is delayed by an excusable delay, the Completion Dates shall be extended for such reasonable time as determined by the City Engineer. Extensions in time must be requested by Contractor within fifteen (15) calendar days of the excusable delay in order to receive consideration.

- (c) Emergency Additional Time for Performance Procurement of Materials. If, because of war or other declared national emergency, the federal or state government restricts, regulates, or controls the procurement and allocation of labor or materials, or both, and if solely because of said restrictions, regulations or controls, Contractor is, through no fault of Contractor, unable to perform the Services, or the work is thereby suspended or delayed, any of the following steps may be taken:
  - i. City may, pursuant to resolution of the City Council, grant Contractor additional time for the performance of the Contract, sufficient to compensate in time, for delay or suspension.

To qualify for such extension in time, Contractor within ten (10) days of Contractor's discovering such inability to perform, shall notify the City Engineer in writing thereof, and give specific reasons therefore; the City Engineer shall thereupon have sixty (60) days within which to procure such needed materials or labor as is specified in this agreement, or permit substitution, or provide for changes in the work in accordance with subdivision (b) of this Section.

Substituted materials, or changes in the work, or both, shall be ordered in writing by the City Engineer, and the concurrence of the City Council shall not be necessary. All reasonable expenses of such procurement incurred by the City Engineer shall be defrayed by the Contractor; or

- ii. If such materials or labor cannot be procured through legitimate channels within sixty (60) days after the filing of the aforesaid notice, either Party may, upon thirty (30) days' written notice to the other, terminate this agreement. In such event, Contractor shall be compensated for all work executed upon a unit basis in proportion to the amount of the work completed, or upon a cost-plus-ten-percent (10%) basis, whichever is the lesser. Materials on the ground, in process of fabrication or in route upon the date of notice of termination specially ordered for the Project and which cannot be utilized by Contractor, shall be compensated for by City at cost, including freight, provided Contractor shall take all steps possible to minimize this obligation; or
- iii. The City Council, by resolution, may suspend the Contract until the cause of inability to perform is removed for a period of not to exceed sixty (60) days.

If the Contract is not canceled, and the inability of Contractor to perform continues without fault on Contractor's part, beyond the time during which the Contract may have been suspended, as herein above provided, the City Council may further suspend the Contract, or either Party hereto may, without incurring any liability, elect to declare the Contract terminated upon the ground of impossibility of performance. In the event City declares this agreement terminated, such declaration shall be authorized by the City Council by resolution, and Contractor shall be notified in writing thereof within five (5) days after the adoption of such resolution. Upon such termination, Contractor shall be entitled to proportionate compensation at the Contract Price for such portion of the Contract as may have been performed; or

iv. City may terminate the Contract, in which case Contractor shall be entitled to proportionate compensation at the agreed rate for such portion of the Contract as may have been performed. Such termination shall be authorized by resolution of the City Council. Notice thereof shall be forthwith given in writing to Contractor, and the Contract shall be terminated upon receipt by Contractor of such notice.

In the event of the termination provided in this sub-paragraph (iv), none of the covenants, conditions or provisions hereof shall apply to the Services not performed, and City shall be liable to Contractor for the proportionate compensation last herein mentioned.

Delay Damages. In the event Contractor, for any reason, fails to perform the (d) Services to the satisfaction of the City Engineer by the Completion Date, City may, in accordance with Section 7203 of the Public Contract Code, in lieu of any other of its rights authorized by Section 6 of this agreement, deduct from payments or credits due Contractor after such breach a sum equal to Three Hundred and no/100ths Dollars (\$\$300.00.00) for each calendar day beyond the Completion Date. This deduction shall not be considered a penalty but shall be considered as delay damages. The aforementioned rate of deduction is an amount agreed to by the Parties as reasonably representing additional construction engineering costs incurred by City if Contractor fails to complete the Services by the Completion Date. However, any deduction assessed as delay damages shall not relieve Contractor from liability for any damages or costs resulting from delays to other contractors on the project or other projects caused by a failure of the assessed Contractor to complete the Services by the Completion Date. Due account shall be taken of any time extensions granted to Contractor by City. Permitting Contractor to continue work beyond the Completion Date shall not operate as a waiver on the part of City of any of its rights under the Contract nor shall it relieve Contractor from liability for any damages or costs resulting from delays to other contractors on the project or other projects caused by a failure of the assessed Contractor to complete the Services by the Completion Date.

#### 6. Termination.

(a) Option of City to Terminate Contract for Failure to Complete Services. If a Party should fail to perform any of its obligations hereunder within the time and in the manner herein provided, or otherwise violates any of the terms of the Contract (the "Defaulting Party"), the other Party shall give notice to the Defaulting Party and allow the Defaulting Party ten (10) days to correct such deficiency. If the Defaulting Party does not correct such deficiency, the

other Party may immediately terminate the Contract by giving written notice of such termination, stating the reason for such termination. In such event, Contractor shall be entitled to receive payment for all Services satisfactorily rendered until such termination, provided, however, there shall be deducted from such amount the amount of damage, if any, sustained by virtue of any breach of the Contract by Contractor, including Delay Damages. If payment under the Contract is based upon a lump sum in total or by individual task, payment for Services satisfactorily rendered shall be an amount which bears the same ratio to the total fees specified in this Agreement as the Services satisfactorily rendered hereunder by Contractor to the total services otherwise required to be performed for such total fee, provided, however, that there shall be deducted from such amount the amount of damage, if any sustained by City by virtue of any breach of the Contract by Contractor. Upon termination, Contractor shall deliver copies of all Work Product, as defined in Section 19 of this Agreement, to City. If District terminates the Contract before Contractor commences any Services hereunder, City shall not be obligated to make any payment to Contractor.

If Contractor should be adjudged bankrupt or if it should make a general assignment for the benefit of its creditors, or if a receiver should be appointed on account of its insolvency, or if it or any of its subcontractors should violate any of the provisions of the Contract, City may serve written notice upon it and its surety of its intention to terminate the Contract. Such notice shall contain the reasons for City's intention to terminate the Contract, and unless such violations shall cease within five (5) calendar days after serving of such notice, the Contract shall cease and terminate upon the expiration of said five (5) calendar days. In the event of any such termination, City shall immediately serve written notice thereof upon the surety and Contractor, and the surety shall have the right to take over and perform the Contract; provided however, that, if the surety does not give City written notice of its intention to take over and perform the Contract or does not commence performance thereof within thirty (30) calendar days from the date of the service of such notice, City may take over the work and prosecute the same to completion by contract or any other method it may deem advisable, for the account and at the expense of Contractor, and Contractor and its surety shall be jointly liable to City for any excess cost occasioned City thereby, and in such event City may, without liability for so doing, take possession of and utilize in completing the work, such materials, appliances, and other property belonging to Contractor as may be on the Project site and necessary thereof.

### 7. Liability for Breach:

Neither Party waives the right to recover direct damages against the other for breach of the Contract, including any amount necessary to compensate City for all detriment proximately caused by Contractor's failure to perform its obligations hereunder or which in the ordinary course of things would be likely to result therefrom. City reserves the right to offset such damages against any payments owed to Contractor. City shall not, in any manner, be liable for special or consequential damages, including but not limited to Contractor's actual or projected lost profits had Contractor completed the Services required by the Contract. In the event of termination by either Party, copies of all finished or unfinished Work Product, as defined in Section 19 of this Agreement, shall become the property of City. Notwithstanding the foregoing, in no event shall City be liable, regardless of whether any claim is based on contract or tort, for any special, consequential, indirect or incidental damages, including, but not limited

to, lost profits or revenue, arising out of or in connection with the Contract or the Services performed in connection with the Contract.

8. Compensation: City shall make Payments to Contractor in accordance with the provisions of Section 9 of the General Conditions in legally executed and regularly issued warrants of City, drawn on the appropriate fund or funds as required by law and order of the City Council thereof. Contractor shall be administered a progress payment approximately every thirty (30) calendar days from the time work begins according to the payment schedule furnished by the City Engineer at the time work begins. Contractor shall provide access at all reasonable times to all reports, contract records, contract documents, contract files, and personnel necessary to audit and verify Contractor's charges to City under this Contract.

Monthly progress payments in the amount of 95 percent (95%) of the value of the work will be made to Contractor based on the Contractor's estimate and the schedule of prices contained in the accepted bid. The remaining 5 percent (5%) will be retained by City as partial security for the fulfillment of the Contract except that at any time after 50 percent (50%) of the work has been completed, if the City Engineer finds that satisfactory progress is being made and the Project's critical path of work are on schedule, City may discontinue any further retention. Such discontinuance will only be made upon the written request of Contractor. City may, at any time the City Engineer finds that satisfactory progress is not being made, again institute retention of 5 percent (5%) as specified above. Payment will be made as soon as possible after the preparation of the Contractor's estimate. City shall pay the remaining 5 percent (5%) of the value of the Services completed under this Contract, if unencumbered by retentions for claims, not sooner than the expiration of thirty-five (35) calendar days from the date of acceptance of the work completed by Contractor by the City Council and not later than sixty (60) days from the "completion" of the Services as said term is defined in Public Contract Code section 7107(c).

No estimate or payment shall be made if, in the judgment of the City Engineer, the work is not proceeding in accordance with the provisions of the Contract, or when, in his judgment, the total value of the work done since the last estimate amounts to less than \$1,000. No progress payments will be made if the time allotted for the job is thirty (30) working days or less. Payment of any progress payment, or the acceptance thereof by Contractor, shall not constitute acceptance of the work performed under this Contractor, or any portion thereof, and shall in no way reduce the liability of Contractor to replace unsatisfactory work or materials, though the unsatisfactory character of such work or materials may not have been apparent or detected at the time such payment was made.

Additionally, as a precondition to City's progress payments hereunder, Contractor shall provide to City, prior to payment, unconditional waivers and releases of stop notices pursuant to Civil Code section 8128 et seq. from each subcontractor and materials supplier. The form of said waivers and releases shall be as set forth in Civil Code section 3262(d)(2).

Pursuant to Public Contract Code section 22300 et seq., Contractor may request the right to substitute securities for any moneys withheld by City to ensure the performance required of Contractor under the Contract, or that City make payment of retentions earned directly into an escrow account established at the expense of Contractor.

- 9. Disputes Pertaining to Payment for Work: Should any dispute arise respecting the true value of any work performed, of any work omitted, or of any extra work which Contractor may be required to do, or respecting the size of any payment to Contractor during the performance of the Contract, such dispute shall be decided by the City Engineer, and the decision of the latter shall be final and conclusive. The Parties agree to comply with the claims resolution procedures set forth in Public Contract Code section 9204 when applicable.
  - (a) Claims Processing. Any submission of a claim by Contractor must comply with the requirements of Public Contract Code section 9204. Upon receipt of a claim pursuant to this section, City shall conduct a reasonable review of the claim and, within a period not to exceed forty-five (45) days, shall provide Contractor a written statement identifying what portion of the claim is disputed and what portion is undisputed. Upon receipt of a claim, the Parties may, by mutual agreement, extend the time period provided in this subdivision. Contractor shall furnish reasonable documentation to support the claim. Any payment due on an undisputed portion of the claim shall be processed and made within sixty (60) days after City issues its written statement. If Contractor disputes City's written response, or if City fails to respond to a claim issued pursuant to this section within the time prescribed, Contractor may demand in writing an informal conference to meet and confer for settlement of the issues in dispute.
  - (b) Meet-and-Confer Conference. Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, City shall schedule a meet-and-confer conference within thirty (30) days for settlement of the dispute. Within ten (10) business days following the conclusion of the meet-and-confer conference, if the claim or any portion of the claim remains in dispute, City 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 sixty (60) days after the City issues its written statement.
  - (c) Nonbinding Mediation. Any disputed portion of the claim, as identified by Contractor in writing, shall be submitted to nonbinding mediation, with the Parties sharing the associated costs equally. The Parties shall mutually agree to a mediator within ten (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 judicial review pursuant to Section 23 of this Agreement.

Notwithstanding any claim, dispute, or other disagreement between the Parties regarding performance under the Contract, the scope of work hereunder, or any other matter arising out of or related to, in any manner, the Contract, Contractor shall proceed diligently with performance of the Services in accordance with City's written direction, pending any final determination or decision regarding any such claim, dispute, or disagreement.

10. Permits and Care of Work: Contractor shall, at Contractor's expense, obtain all necessary permits and licenses for the construction of each improvement, give all necessary notices and pay all fees and taxes required by law, except those City fees set forth in Section 1 of the Special

Provisions. Contractor has examined the Project site and is familiar with its topography and condition, location of property lines, easements, building lines, and other physical factors and limitations affecting the performance of the Contract. Contractor, at Contractor's expense, shall obtain any permission necessary for any operations conducted off the property owned or controlled by City. Contractor shall be responsible for the proper care and protection of all materials delivered and work performed until completion and final acceptance.

### 11. Public Works and Payment of Prevailing Wage:

(a) Monitoring and Enforcement. In accordance with the provisions of Sections 1725.5, 1771.1, 1771.3, and 1771.4 of the Labor Code, all work performed under the Contract is subject to compliance monitoring and enforcement by the Department of Industrial Relations ("DIR"). All work performed by Contractor or its subcontractors under the Contract is subject to the requirements of Labor Code section 1720 et seq. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 of the Labor Code at the time the contract is awarded. Contractor and its subcontractors shall furnish the records specified in Section 1776 of the Labor Code directly to the Labor Commissioner, at least monthly, in the format prescribed by the Labor Commissioner.

In accordance with the provisions of Section 1773.3 of the Labor Code, City shall provide notice to DIR of the award of this Contract within thirty (30) working days of the award. The notice shall be transmitted electronically in a format specified by DIR and shall include the name of Contractor, any subcontractor listed on the successful bid, the bid and contract award dates, the contract amount, the estimated start and completion dates, Project location, and any additional information DIR specifies that aids in the administration and enforcement of Section 1720 et seq. of the Labor Code.

- (b) Wages & Hours of Employment: In the performance of the Services under the Contract, eight (8) hours shall be the maximum hours of labor on any calendar day, and the minimum wages of compensation of persons performing labor in the execution of this agreement shall be the current prevailing scale of wages determined by DIR for the community. Contractor shall forfeit as penalty Twenty-five and no/100ths Dollars (\$25.00) to be paid to City for each workman employed in the execution of the Contract by Contractor or its subcontractor(s), for each calendar day during which any workman is required or permitted to labor more than eight (8) hours, in violation of provisions of Labor Code section 1810 et seq. Contractor shall post prevailing wage rates at the Project no later than the first day Contractor commences performance of the Services under the Contract.
- **12. Superintendence by Contractor:** Contractor shall give personal superintendence to the work on the Project or have a competent foreman or superintendent satisfactory to the City Engineer on the Project at all times during construction and performance of work under the Contract, with authority to act for Contractor.
- 13. Inspection and Testing by City: Contractor shall at all times maintain proper facilities and provide safe access for inspection by City to all parts of the work performed on the Project and to the shops wherein the work is in preparation. Contractor shall notify City with sufficient

time in advance of the manufacture of production materials to be supplied by Contractor under the Contract in order for City to arrange for mill or factory inspection and testing of same. Any materials shipped by Contractor from factory prior to having satisfactorily passed such testing and inspection by City's representative or prior to the receipt of notice from such representative that such testing and inspection will not be required shall not be incorporated on the Project. Contractor shall also furnish to City, in triplicate, certified copies of all factory and mill test reports upon request.

14. Conformity with Law and Safety: Contractor shall observe and comply with all applicable laws, ordinances, codes, and regulations of governmental agencies, including federal, state, municipal, and local governing bodies having jurisdiction over any or all of the scope of Services, including all provisions of the Occupational Safety and Health Act of 1979 as amended, all California Occupational Safety and Health Regulations, the California Building Code, the American with Disabilities Act, any copyright, patent, or trademark law, and all other applicable federal, state, municipal, and local safety regulations, appropriate trade association safety standards, and appropriate equipment manufacturer instructions. All Services performed by Contractor or its subcontractors must be in accordance with these laws, ordinances, codes, and regulations. Contractor's failure to comply with any laws, ordinances, codes, or regulations applicable to the performance of the Services hereunder shall constitute a breach of contract. In cases where standards conflict, the standard providing the highest degree of protection shall prevail.

If a death, serious personal injury or substantial property damage occurs in connection with the performance of the Contract, Contractor shall immediately notify City's risk manager by telephone. If any accident occurs in connection with the Contract, Contractor shall promptly submit a written report to City, in such form as City may require. This report shall include the following information: (a) name and address of the injured or deceased person(s); (b) name and address of Contractor's subcontractor, if any; (c) name and address of Contractor's liability insurance carrier; and (d) a detailed description of the accident, including whether any of City's equipment, tools, or materials were involved.

If a release of a hazardous material, substance, or waste occurs in connection with the performance of the Contract, Contractor shall immediately notify City. Contractor shall not store hazardous materials or hazardous waste within City limits without a proper permit from City.

- **15. Other Contracts:** City may award other contracts for additional work on the Project, and Contractor shall fully cooperate with such other contractors and carefully fit Contractor's own work to that provided under other contracts as may be directed by the City Engineer. Contractor shall not commit or permit any act which will interfere with the performance of work by any other contractor.
- **16. Bonds:** Concurrently with the execution hereof, Contractor shall furnish, on the forms provided herein as Exhibits D and E, respectively, corporate surety bonds to the benefit of City, issued by a surety company acceptable to City and authorized and admitted to do business in the state of California, as follows:

- (a) Faithful Performance Bond. In an amount equal to at least one hundred percent (100%) of the Contract Price as security for the faithful performance of the Contract. The bond shall contain a provision that the surety thereon waives the provisions of Sections 2819 and 2845 of the Civil Code.
- (b) Payment Bond. In an amount equal to at least one hundred percent (100%) of the Contract Price as security for the payment of all persons performing labor and furnishing materials in connection with the Contract. The bond shall be in accordance with the provisions of Sections 3225, 3226, and 3247 through 3252, inclusive, of the Civil Code and Section 13020 of the Unemployment Insurance Code of California. Said bond shall also contain a provision that the surety thereon waives the provisions of Sections 2819 and 2845 of the Civil Code.

The surety companies shall familiarize themselves with all provisions and conditions of the Contract. It is understood and agreed that the surety or sureties waive the right of special notification of any modification or alterations, omissions or reductions, extra or additional work, extensions of time, or any other act or acts by City or its authorized agents under the terms of this Contract and failure to so notify the surety or sureties of such changes shall in no way relieve the surety or sureties of their obligations under the Contract.

### 17. Indemnification:

- (c) Indemnity for Professional Liability. When the law establishes a professional standard of care for Contractor's Services, to the fullest extent permitted by law, Contractor shall indemnify, protect, defend, and hold harmless City and any and all of its elective and appointive boards, officers, officials, agents, employees or volunteers ("City's Agents") from and against any and all losses, liabilities, damages, costs, and expenses, including legal counsel's fees and costs but only to the extent Contractor or its subcontractors are responsible for such damages, liabilities and costs on a comparative basis of fault between Contractor or its subcontractors and City in the performance of professional services under the Contract. Contractor shall not be obligated to defend or indemnify City for City's own negligence or for the negligence of others.
- (d) Indemnity for other than Professional Liability. Other than in the performance of professional services and to the full extent permitted by law, Contractor shall indemnify, defend, and hold harmless City and any and City's Agents from and against any liability, including liability for claims, suits, actions, arbitration proceedings, administrative proceedings, regulatory proceedings, losses, expenses or costs of any kind, whether actual, alleged or threatened, including legal counsel's fees and costs, court costs, interest, defense costs, and expert witness fees, where the same arise out of, are a consequence of, or are in any way attributable to, in whole or in part, the performance of the Contract by Contractor or by any individual or agency for which Contractor is legally liable, including, but not limited to, officers, agents, employees, or subcontractors of Contractor.
- 18. Contractor's Insurance: Concurrently with the execution hereof, Contractor shall furnish City with satisfactory proof of carriage of the insurance required under this section, and that Contractor shall give City at least sixty (60) days prior notice of the cancellation of any policy during the Term of this contract. Contractor shall not commence work under this Agreement until Contractor has obtained City's approval regarding all insurance requirements, forms,

endorsements, amounts, and carrier ratings, nor shall Contractor allow any subcontractor to commence work on a subcontract until all similar insurance required of the subcontractor shall have been so obtained and approved. Contractor shall procure and maintain for the duration of the Contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the Services hereunder by Contractor, its agents, representatives, employees or subcontractors. Failure to maintain or renew coverage or to provide evidence of renewal may constitute a material breach of the Contract. Any available insurance proceeds in excess of the specified minimum limits and coverage shall be available to City.

- (e) General Liability Insurance. Contractor shall maintain commercial general liability insurance with coverage at least as broad as Insurance Services Office form CG 00 01, in an amount not less than Two Million Dollars (\$2,000,000) per occurrence, Four Million Dollars (\$4,000,000) general aggregate, for bodily injury, personal injury, and property damage, including, without limitation, blanket contractual liability and coverage for explosion, collapse, and underground property damage hazards. Contractor's general liability policies shall be primary and not seek contribution from City's coverages and be endorsed using Insurance Services Office form CG 20 10 to provide that City and its officers, officials, employees, and agents shall be additional insureds under such policies. For construction contracts, an endorsement providing completed operations to the additional insured, ISO form CG 20 37, is also required. The policy shall contain, or be endorsed to contain, the following provisions:
  - (1) City, its elective and appointive boards, officers, agents, employees, and volunteers are to be covered as additional insureds with respect to liability arising out of work or operations performed by or on behalf of Contractor, including materials, parts or equipment furnished in connection with such work or operations, which coverage shall be maintained in effect for at least three (3) years following the completion of the work specified in the Contract. General liability coverage can be provided in the form of an endorsement to Contractor's insurance (at least as broad as CG 20 10 for ongoing operations and CG 20 37 for products/completed operations), or as a separate Owners and Contractors Protective Liability policy providing both ongoing operations and completed operations coverage.
  - (2) For any claims related to the Project, Contractor's insurance coverage shall be primary insurance as respects City and any insurance or self-insurance maintained by City shall be excess of Contractor's insurance and shall not contribute with it.
  - (3) In the event of cancellation, non-renewal, or material change that reduces or restricts the insurance coverage afforded to City under the Contract, the insurer, broker/producer, or Contractor shall provide City with thirty (30) days' prior written notice of such cancellation, non-renewal, or material change.
  - (4) Coverage shall not extend to any indemnity coverage for the active negligence of the additional insured in any case where an agreement to indemnify the additional insured would be invalid under Subdivision (b) of Section 2782 of the Civil Code.

- (f) Workers' Compensation Insurance. Contractor shall maintain Workers' Compensation Insurance (Statutory Limits) and Employer's Liability Insurance with limits of at least One Million Dollars (\$1,000,000). Contractor shall submit to City, along with the certificate of insurance, a Waiver of Subrogation endorsement in favor of City, its officers, agents, employees, and volunteers.
- (g) Auto Insurance. Contractor shall provide auto liability coverage for owned, non-owned, and hired autos using ISO Business Auto Coverage form CA 00 01, or the exact equivalent, with a limit of no less than Two Million Dollars (\$2,000,000) per accident. If Contractor owns no vehicles, this requirement may be met through a non-owned auto endorsement to the CGL policy.
  - (h) Builder's Risk Insurance. Not required.
- (i) Contractors Pollution Insurance. Pollution Coverage shall be provided on a Contractors Pollution Liability form, or other form acceptable to City, providing coverage for liability arising out of sudden, accidental, and gradual pollution and remediation. The policy limit shall be no less than One Million Dollars (\$1,000,000) per claim. All activities contemplated in the Contract shall be specifically scheduled on the policy as "covered operations." The policy shall provide coverage for the hauling of waste from the Project site to the final disposal location, including non-owned disposal sites.
  - (j) Professional Liability Insurance. Not required.
- (k) Deductibles and Self-Insured Retentions. Upon request of City, any deductibles or self-insured retentions must be declared to and approved by City. At the option of City, either: (1) the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects City and City's Agents; or (2) Contractor shall provide a financial guarantee satisfactory to City guaranteeing payment of losses and related investigations, claim administration, and defense expenses.
- (l) Acceptability of Insurers. Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A-:VII or with an insurer to which City has provided prior approval.
- (m) Verification of Coverage. Contractor shall furnish City with original certificates and amendatory endorsements or copies of the applicable policy language effecting coverage required by this Section 18. All certificates and endorsements are to be received and approved by City before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive Contractor's obligation to provide them. City reserves the right, at any time, to require complete, certified copies of all required insurance policies and endorsements.
- (n) Waiver of Subrogation. With the exception of professional liability, Contractor hereby agrees to waive subrogation which any insurer of Contractor may acquire from Contractor by virtue of the payment of any loss. The commercial general liability policy and workers' compensation policy shall be endorsed to contain a waiver of subrogation in favor of City for all work performed by Contractor, its agents, employees, independent contractors and

subcontractors. Contractor agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation.

- (o) Subcontractors. Contractor shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor. All coverages for subcontractors shall be subject to all of the requirements stated herein.
- 19. Ownership of Work Product: Any and all work, artwork, copy, posters, billboards, photographs, videotapes, audiotapes, systems designs, software, reports, designs, specifications, drawings, diagrams, surveys, source codes, professional or technical information or data, photographs, notes, letters, emails, or any original works of authorship created by contractor or its subcontractors or subcontractors in connection with Services performed under the Contract ("Work Product") shall be works for hire as defined under Title 17 of the United States Code, and all copyrights in such works are the property of City. In the event that it is ever determined that any Work Product created by Contractor or its subcontractors or subcontractors under the Contract are not works for hire under U.S. law, Contractor hereby assigns all copyrights to such Work Product to City. With the prior written approval of the City Engineer, Contractor may retain and use copies of such Work Product for reference and as documentation of its experience and capabilities.

All Work Product shall become the property of City irrespective of where located or stored and Contractor agrees to deliver all such documents and information to City, without charge and in whatever form it exists, upon the Completion Date, as may be extended. Contractor shall have no ownership interest in such Work Product.

All Work Product of Contractor under the Contract, including written information which City will cause to be distributed for either internal or public circulation, including both preliminary and final drafts, shall be delivered to City in both printed and electronic form, or as may be specific in Exhibit A.

When the Contract is terminated, Contractor agrees to return to City all documents, drawings, photographs, and other written or graphic material, however produced, that it received from City or City's Agents, in connection with the performance of its Services under the Contract. All materials shall be returned in the same condition as received.

- **20. Taxes:** Payment of any taxes, including California sales and use taxes, levied upon the Contract, the transaction, or the Services or goods delivered pursuant hereto, shall be the obligation of Contractor. Contractor shall cooperate with City to the full extent possible to maximize the local allocation of California sales and use tax to City. Such cooperation shall include, but not be limited to:
- (a) Use Tax Direct Payment Permits. Contractor shall apply for, obtain, and utilize, to the maximum extent reasonable, a California Use Tax Direct Payment Permit.
- (b) Purchases of \$500,000 or More. Contractor shall require vendors and suppliers located outside California from whom Contractor makes purchases of \$500,000 or more to allocate the use tax to City.

- 21. Independent Contractor: At all times during the Term of the Contract, Contractor shall be deemed to be an independent contractor and shall be wholly responsible for the manner in which Contractor performs the Services required under the Contract. Contractor shall be liable for its acts and omissions, and those of its employees, contractors, subcontractors, representatives, volunteers, and its agents. Nothing contained herein shall be construed as creating an employment, agency, or partnership relationship between City and Contractor. City shall have the right to control Contractor only insofar as the result of Contractor's Services rendered pursuant to the Contract; however, City shall not have the right to control the means by which Contractor accomplishes Services rendered pursuant to the Contract.
- **22. Contractor Not Agent:** Except as City may specify in writing, Contractor shall have no authority, express or implied, to act on behalf of City in any capacity whatsoever as an agent. Contractor shall have no authority, express or implied, pursuant to the Contract to bind City to any obligation whatsoever.
- 23. Arbitration of Disputes: All claims, disputes, and other matters in question between City and Contractor arising out of, or relating to, this Contract or the breach thereof, including claims of Contractor for extra compensation of Services related to the project, shall be decided by arbitration before a single arbitrator in accordance with the provisions of Sections 1281 through 1284.2 of the Code of Civil Procedure (the "Arbitration Laws") unless the Parties mutually agree otherwise. The provisions of Section 1283.05 of the Arbitration Laws apply to any arbitration proceeding except as otherwise provided in the Contract. The arbitrator shall have authority to decide all issues between the Parties including, but not limited to, claims for extras, delay, and liquidated damages, if any, provided for the Contract, matters involving defects in the Services performed by Contractor or its subcontractors, rights to payment, and whether the necessary procedures for arbitration have been followed. The award rendered by the arbitrator shall be final and judgment may be entered upon it in accordance with applicable law in any court having competent jurisdiction thereof.

Notice of the demand for arbitration shall be filed in writing with the other Party. The demand for arbitration shall be made within a reasonable time after the claim, dispute, or other matter in question has arisen, and in no event shall it be made after the date when institution of legal or equitable proceedings based on such claim, dispute, or other matter in question would be barred by the applicable statute of limitations.

The parties shall jointly appoint an arbitrator within fifteen (15) calendar days of the date of giving the notice of the demand for arbitration. If the Parties are unable to jointly agree upon the appointment of an arbitrator within said fifteen (15) calendar day period, and do not agree in writing to extend said period for a fixed period, then either Party may seek to have the arbitrator appointed by the Superior Court of Stanislaus County in accordance with the Arbitration Laws.

If any proceeding is brought to contest the right to arbitrate and it is determined that such right exists, the losing Party shall pay all costs and attorney's fees incurred by the prevailing Party.

In addition to the other rules of law which may be applicable to any arbitration hereunder, the following shall apply:

- (a) Promptly upon the filing of the arbitration, each Party shall be required to set forth in writing and to serve upon each other Party a detailed statement of its contentions of fact and law.
- (b) All Parties to the arbitration shall be entitled to the discovery procedures provided under Section 1283.05 of the California Code of Civil Procedure.
- (c) The arbitration shall be commenced and conducted as expeditiously as possible consistent with affording reasonable discovery as provided herein.
  - (d) These additional rules shall be implemented and applied by the arbitrator.

The costs of arbitration shall be borne by the Parties as determined by the arbitrator, but each Party shall bear its own attorney's fees associated with the dispute with the other Party and to the arbitration.

- **24. Provisions Cumulative:** The provisions of the Contract are cumulative, and in addition to and not in limitation of, any other rights or remedies available to City.
- **25. Notices:** All notices shall be in writing and delivered in person or transmitted by certified mail, postage prepaid. Any Party hereto may at any time, by giving ten (10) days' written notice to the other Party hereto, designate any other address in substitution of the address to which such notice or communication shall be given. Such notices or communications shall be given to the Parties at their addresses set forth below.

If to City:	City of Turlock Attn: City Engineer 156 S. Broadway, Suite 150 Turlock, CA 95380-5461
With courtesy copies to:	Petrulakis Law & Advocacy, APC Attn: George A. Petrulakis, Interim City Attorney P.O. Box 92 Modesto, CA 95353-0092
If to Contractor:	
If to Contractor's Sureties:	

**26. City Contract Administrator:** The City's contract administrator and contact person for this Agreement is:

Stephen Fremming
City of Turlock Engineering Division
156 S. Broadway, Suite 150
Turlock, California 95380-5461
Telephone: (209) 668-5417
E-mail: sfremming@turlock.ca.us

- **27. Interpretation:** As used herein, any gender includes each other gender, the singular includes the plural and vice versa.
- **28. Antitrust Claims:** Contractor or its subcontractors offer and agree to assign to City all rights, title, and interest to any causes of action under Section Four of the Clayton Act and the Cartwright Act concerning antitrust claims.
- 29. Use of City Project Number: Contractor or its subcontractors agree to use the aforementioned City project number on all maps, drawings, submittals, billing, and written correspondence that involve City staff or contracted consultants. Nothing in this section shall preclude Contractor or its subcontractors from using their own project numbers for their own internal use.
- **30.** No Conflict of Interest: Contractor represents that no conflict of interest will be created under state or federal law by entering into or in carrying out the Contract.
- 31. Confidentiality: Contractor understands and agrees that, in the performance of Services under the Contract, or in the contemplation thereof, Contractor may have access to private or confidential information that may be owned or controlled by City and that such information may contain proprietary or confidential details, the disclosure of which to third parties may be damaging to City ("Confidential Information"). Contractor shall not, either during or after the Term, disclose to any third party any Confidential Information without the prior written consent of City. If City gives Contractor written authorization to make any such disclosure, Contractor shall do so only within the limits and to the extent of that authorization. Contractor may be directed or advised by the City Attorney on various matters relating to the performance of Services on the Project or on other matters pertaining to the Project, and in such event, Contractor agrees that it will treat all communications between itself, its employees, and its subcontracts as being communications which are within the attorney-client privilege.
- **32. Modification.** No alteration, amendment, modification, or termination of the Contract shall be valid unless made in writing and executed by all Parties to the Contract.
- **33. Waiver:** No covenant, term, or condition or the breach thereof shall be deemed waived, except by written consent of the Party against whom the waiver is claimed, and any waiver of the breach of any covenant, term, or condition shall not be deemed to be a waiver of any preceding or succeeding breach of the same or any other covenant, term, or condition.
- **34. Assignment:** No Party to the Contract shall assign, transfer, or otherwise dispose of this Agreement in whole or in party to any individual, firm, or corporation without the prior written

- consent of the other Party. Subject to the foregoing provisions, the Contract shall be binding upon, and inure to the benefit of, the respective successors and assigns of the Parties hereto.
- **35. Authority:** All Parties to this Agreement warrant and represent that they have the power and authority to enter into this Agreement and the names, titles, and capacities herein stated on behalf of any entities, persons, states, or firms represented or purported to be represented by such entities, person, states, or firms and that all former requirements necessary or required by state or federal law in order to enter into the Contract have been fully complied with. Further, by entering into this Agreement, neither Party hereto shall have breached the terms or conditions of any other contract or agreement to which such Party is obligated, which such breach would have a material effect hereon.
- **36. Governing Law:** The Contract shall be governed and construed in accordance with the laws of the state of California.
- **37. Severability:** If the Contract in its entirety is determined by an arbitrator or a court of competent jurisdiction to be invalid or unenforceable, the Contract shall automatically terminate as of the date of final entry of judgment. If any provision of the Contract shall be determined to be invalid and unenforceable, or if any provision of the Contract is rendered invalid or unenforceable according the terms of any federal or state statute, which becomes effective after the Effective Date of this Agreement, the remaining provisions shall continue in full force and effect and shall be construed to give effect to the intent of this Agreement.
- **38.** Counterparts: This Agreement may be executed simultaneously and in several counterparts, each of which shall be deemed an original but together shall constitute one and the same instrument.
- **39. Mandatory and Permissive:** "Shall" and "will" and "agrees" are mandatory. "May" and "can" are permissive.
- **40. Headings:** Headings used in this Agreement are for reference purposes only and shall not be considered in construing this Agreement.
- 41. Attorney's Fees and Costs: Except as expressly provided for in Section 23 of this Agreement, if any action at law or in equity, including action for declaratory relief, is brought to enforce or interpret the provisions of the Contract, the prevailing Party shall be entitled to reasonable attorney's fees and costs, which may be set by the court in the same action or in a separate action brought for that purpose, in addition to any other relief to which such Party may be entitled.
- **42.** Necessary Acts and Further Assurances: The Parties shall, at their own cost and expense, execute and deliver such further documents and instruments and shall take such other actions as may be reasonably required or appropriate to evidence or carry out the intent and purposes of the Contract.

[Signatures on Following Page]

**IN WITNESS WHEREOF**, three identical counterparts of this agreement, consisting of a total of 20 pages, each of which counterparts shall for all purposes be deemed an original of said agreement, have been duly executed by the parties hereinabove named, on the day and year first herein above written.

CONTRACTOR	CITY OF TURLOCK, a municipal corporation
By:	By: Gary R. Hampton, Acting City Manager
Print Name	Date:
Address:	APPROVED AS TO SUFFICIENCY:
Phone: Date:	By: Nathan Bray, Interim Development Services Director/City Engineer
Federal Tax ID or Social Security No:	APPROVED AS TO FORM:
DIR Registration Number:	By: George A. Petrulakis, Interim City Attorney
	ATTEST:
Attach Contractor's Seal Here	By: Jennifer Land, City Clerk

# EXHIBIT A SCOPE OF SERVICES

Insert Contractor's Proposal here.

## EXHIBIT B PAYMENT BY FORCE ACCOUNT

For work paid by force account, the City Engineer compares City's records to Contractor's daily force account work report. When the City Engineer and Contractor agree on the contents of the daily force account work reports, the City Engineer accepts the report and City pays for the work. If the records differ, City pays for the work based only on the information shown on City's records. If a subcontractor performs work at force account, work paid at force account will be accepted at an additional 2 percent (2%) markup to the total cost of that work, including markups, as reimbursement for additional administrative costs. The markups specified in labor, materials, and equipment includes compensation for all delay costs, overhead costs, and profit. If an item's unit price is adjusted for work-character changes, City excludes Contractor's cost of determining the adjustment. Payment for owner-operated labor and equipment is made at the market-priced invoice submitted.

- **A.** Labor. Labor payment is full compensation for the cost of labor used in the direct performance of the work plus a 5 percent (5%) markup, as set forth below, and consistent with California Labor Code section 1770 et seq. Force account labor payment consists of:
  - 1. Employer payment to the worker for:
    - 1.1 Basic hourly wage
    - 1.2 Health and welfare
    - 1.3 Pension
    - 1.4 Vacation
    - 1.5 Training
    - 1.6 Other State and federal recognized fringe benefit payments
  - 2. Labor surcharge percentage in *Labor Surcharge and Equipment Rental Rates* current during the work paid at force account for:
    - 2.1 Workers' compensation insurance
    - 2.2 Social security
    - 2.3 Medicare
    - 2.4 Federal unemployment insurance
    - 2.5 State unemployment insurance
    - 2.6 State training taxes
  - 3. Subsistence and travel allowances paid to the workers
  - 4. Employer payment to supervisors, if authorized

The 5 percent (5%) markup consists of payment for all overhead costs related to labor but not designated as costs of labor used in the direct performance of the work including:

- (a) Home office overhead
- (b) Field office overhead
- (c) Bond costs
- (d) Profit

- (e) Labor liability insurance
- (f) Other fixed or administrative costs that are not costs of labor used in the direct performance of the work
- **B.** Materials. Material payment is full compensation for materials the Contractor furnishes and uses in the work. The City Engineer determines the cost based on the material purchase price, including delivery charges, except:
  - 1. A 5 percent markup is added;
  - 2. Supplier discounts are subtracted whether the Contractor takes them or not;
  - 3. If the City Engineer believes the material purchase prices are excessive, City pays the lowest current wholesale price for a similar material quantity;
  - 4. If Contractor procured the materials from a source Contractor wholly or partially own, the determined cost is based on the lower of the:
    - 4.1 Price paid by the purchaser for similar materials from that source on Contract items; and
    - 4.2 Current wholesale price for those materials;
  - If Contractor does not submit a material cost record within thirty (30) days of billing, the determined cost is based on the lowest wholesale price:
    - 5.1 During that period
    - 5.2 In the quantities used
- C. Equipment Rental. Equipment rental payment is full compensation for:
  - 1. Rental equipment costs, including moving rental equipment to and from the change order work site using its own power.
  - 2. Transport equipment costs for rental equipment that cannot be transported economically using its own power. No payment is made during transport for the transported equipment.
  - 3. 5 percent markup.

If Contractor wants to return the equipment to a location other than its original location, the payment to move the equipment must not exceed the cost of returning the equipment to its original location. If Contractor uses the equipment for work other than work paid by force account, the transportation cost is included in the other work.

Before moving or loading the equipment, Contractor must obtain authorization for the equipment rental's original location.

The City Engineer determines rental costs:

- 1. Using rates in *Labor Surcharge and Equipment Rental Rates*:
  - 1.1. By classifying equipment using manufacturer's ratings and manufacturer-approved changes.
  - 1.2. Current during the work paid by force account.
  - 1.3. Regardless of equipment ownership but City uses the rental document rates or minimum rental cost terms if:
    - 1.3.1. Rented from equipment business Contractor does not own.
    - 1.3.2. The Labor Surcharge and Equipment Rental Rates hourly rate is \$10.00 per hour or less.
- 2. Using rates established by the City Engineer for equipment not listed in *Labor Surcharge and Equipment Rental Rates*. Contractor may submit cost information that helps the City Engineer establish the rental rate but City uses the rental document rates or minimum rental cost terms if:
  - 2.1. Rented from equipment business Contractor does not own.
  - 2.2. The City Engineer establishes a rate of \$10.00 per hour or less.
- 3. Using rates for transport equipment not exceeding the hourly rates charged by established haulers.

Equipment rental rates include the cost of:

- 1. Fuel
- 2. Oil
- 3. Lubrication
- 4. Supplies
- 5. Small tools that are not consumed by use
- 6. Necessary attachments

- 7. Repairs and maintenance
- 8. Depreciation
- 9. Storage
- 10. Insurance
- 11. Incidentals

City pays for small tools consumed by use. The City Engineer determines payment for small tools consumed by use based on Contractor-submitted invoices.

The City Engineer may authorize rates in excess of those in the *Labor Surcharge and Equipment Rental Rates* if:

- 1. Contractor submits a request to use rented equipment
- 2. Equipment is not available from Contractor's normal sources or from one of Contractor's subcontractors
- 3. Rented equipment is from an independent rental company
- 4. Proposed equipment rental rate is reasonable
- 5. The City Engineer authorizes the equipment source and the rental rate before Contractor uses the equipment
- **D.** Equipment on the Job Site. For equipment on the job site at the time required to perform work paid by force account, the time paid is the time:

- 1. To move the equipment to the location of work paid by force account plus an equal amount of time to move the equipment to another location on the job site when the work paid by force account is completed
- 2. To load and unload equipment
- 3. Equipment is operated to perform work paid by force account and:
  - 3.1. Hourly rates are paid in 1/2-hour increments
  - 3.2. Daily rates are paid in 1/2-day increments
- E. Equipment Not on the Job Site Required for Original-Contract Work. For equipment not on the job site at the time required to perform work paid by force account and required for original-Contract work, the time paid is the time the equipment is operated to perform work paid by force account and the time to move the equipment to a location on the job site when the work paid by force account is completed.

The minimum total time paid is:

- 1. 1 day if daily rates are paid
- 2. 8 hours if hourly rates are paid

If daily rates are recorded, equipment:

- 1. Idled is paid as 1/2 day
- 2. Operated four (4) hours or less is paid as 1/2 day
- 3. Operated four (4) hours or more is paid as one (1) day

If the minimum total time exceeds eight (8) hours and if hourly rates are listed, City rounds up hours operated to the nearest 1/2-hour increment and pays based on the hours shown in the following table. The table does not apply when equipment is not operated due to breakdowns, in which case rental hours are the hours the equipment was operated.

**Equipment Rental Hours** 

Hours	Hours
operated	paid
0.0	4.00
0.5	4.25
1.0	4.50
1.5	4.75
2.0	5.00
2.5	5.25
3.0	5.50
3.5	5.75
4.0	6.00
4.5	6.25
5.0	6.50
5.5	6.75
6.0	7.00

6.5	7.25
7.0	7.5
7.5	7.75
≥8.0	hours
	used

- F. Equipment Not on the Job Site Not Required for Original-Contract Work. For equipment not on the job site at the time required to perform work paid by force account and not required for original-Contract work, the time paid is the time:
  - 1. To move the equipment to the location of work paid by force account plus an equal amount of time to return the equipment to its source when the work paid by force account is completed
  - 2. To load and unload equipment
  - 3. Equipment is operated to perform work paid by force account
- **G.** Non-Owner-Operated Dump Truck Rental. Contractor shall submit the rental rate for non-owner-operated dump truck rental to City. The City Engineer shall determine the payment rate. Payment for non-owner-operated dump truck rental is for the cost of renting a dump truck, including its driver. For the purpose of markup payment only, the non-owner-operated dump truck is rental equipment and the owner is a subcontractor.

The above markups shall constitute full compensation for all home office overhead, field office overhead, bond costs, profit, labor liability insurance, and other fixed or administrative costs that are not costs specifically designated as cost or equipment rental as stated above. The total payment made as provided above shall be deemed to be the actual cost of the work and shall constitute full compensation therefor.

When extra work to be paid for on a force account basis is performed by a subcontractor, an additional markup of 2 percent (2%) will be added to the total cost of that extra work including all markups specified in this Section. The additional 2 percent (2%) markup shall reimburse Contractor for additional administrative costs, and no other additional payment will be made by reason of performance of the extra work by a subcontractor.

## EXHIBIT C WORKERS' COMPENSATION INSURANCE CERTIFICATION

Pursuant to Section 18(b) of the Agreement, Contractor certifies as follows:

I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for worker's 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.

Signed:	Date:
(Typed or Printed Name)	
Business Address (Street Address, City, State & Zip Code):	
Business Phone: ( )	

## EXHIBIT D PERFORMANCE BOND

## KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the City of Turlock, State of California, has awarded to hereinafter designated as the "Principal," a contract for Project No. 20-026, "RWQCF Flotator No 3 Recoating;" and,				
WHEREAS, said Principal is required under the terms of said contract to furnish a bond for the faithful performance of said contract.				
NOW, THEREFORE, we the Principal, and	as Surety, are held			
NOW, THEREFORE, we the Principal, andand firmly bound unto the City of Turlock (\$ ), 1	awful money of the United States			
for the payment of which sum well and truly to be made, we bind administrators, successors, or assigns jointly and severally, firmly by	d ourselves, our heirs, executors,			
THE CONDITION OF THIS OBLIGATION IS SUCH, that if Principal's heirs, executors, administrators, successors, or assigns, shelps, and well and truly keep and perform the covenants, conditions, and any alteration thereof made as therein provided, on the Principal's patime and in the manner therein specified and in all respects according and shall defend, indemnify and save harmless the City of Turlock, stipulated, then this obligation shall become null and void; otherwise and virtue.	nall in all things stand to and abide nd agreements in said contract and art, to be kept and performed at the g to their true intent and meaning; , its officers and agents as therein			

And the Surety, for value received hereby stipulates and agrees that, in accordance with the Plans, Standard Specifications, Special Provisions, and other contract documents, no change, extension of time, alteration, or addition to the terms of the contract, or to the work to be performed hereunder, or to the specifications accompanying the same shall in anywise affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration of additions to the terms of the Contract to the work, or to the specifications.

The City of Turlock reserves the right to refuse use of any Contractor assigned by any surety to complete the work.

[Signatures on Following Page]

IN WITNESS WHEREC seals this day of	OF, the above-bound parties have executed this instrument under their, 20, the name and corporate seals of each corporate
party being hereto affixed and th authority of its governing body.	ese presents duly signed by its undersigned representative, pursuant to
authority of its governing body.	
(Corporate Seal)	Principal
	Ву
	Title
(Attach Notarial Acknowledgme	ent)
(Corporate Seal)	Surety
	Address
	Phone No.: ( ) Fax No.: ( )
	ByAttorneys-in-Fact
	Title
(Attach Notarial Acknowledgme	ent)
NOTE TO SURETY COMPAresolution of authority for the	<u>ANY</u> : There must be submitted a certified copy of unrevoked attorneys-in-fact.
(Seal)	Witness
Approved as to form:	
Risk Manager	

## EXHIBIT E PAYMENT BOND

#### KNOW ALL MEN BY THESE PRESENTS:

WHEREAS, the City of Turlock, a municipal corporation, has awarded to hereinafter designated as the "Principal", a contract for Project No. 20-026, "RWQCF Flotator No. 3 Recoating"; and

WHEREAS, said Principal is required to furnish a bond in connection with said contract, to secure payment of claims of laborers, mechanics, or materialmen employed on work under said contract, as provided by law.

NOW, THEREFORE, we the undersigned Principal and Surety are held and firmly bound unto the City of Turlock in the sum of

said sum being equal to the estimated amount payable by said City of Turlock under the terms of the contract, for which payment well and truly to be made, we bind ourselves, our heirs, executors,

administrators, successors, or assigns jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATION ARE SUCH that if said Principal, or Principal's heirs, executors, administrators, successors, or assigns, or subcontractors shall fail to pay for any material, provisions, provender, or other supplies, implements, or machinery used in, upon, for or about the performance of the work contracted to be done, or for any work or labor thereon of any kind, or for amounts due under the Unemployment Insurance Code with respect to such work or labor, or for any amounts required to be deducted, withheld, and paid over to the Franchise Tax Board from these wages of employees of the Contractor and Contractor's subcontractors pursuant to the Revenue and Taxation Code, with respect to such work and labor, the Surety or Sureties hereon will pay for the same in an amount not exceeding the sum specified in this bond, otherwise the above obligation shall be void. In case suit is brought upon this bond, said Surety will pay a reasonable attorney's fee to be fixed by the court.

This bond shall inure to the benefit of any and all persons, companies, and corporations entitled to file claims under Section 3138 of the Civil Code of the State of California so as to give a right of action to them or their assigns in any suit brought upon this bond.

Said Surety, for value received, hereby stipulates and agrees that, in accordance with the Plans, Standard Specifications, Special Provisions, and other Contract Documents, no change, extension of time, alteration or addition to the terms of the contract, or to the work to be performed there under, or to the specifications accompanying the same, shall in anywise affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract, or to the work, or to the specifications.

[Signatures on Following Page]

	the above-bound parties have executed this instrument under their, 20, the name and corporate seals of each
corporate party being hereto affixed	and these presents duly signed by its undersigned representative,
pursuant to authority of its governing	g body.
(Corporate Seal)	Principal
	Ву
	Title
(Attach Notarial Acknowledgment)	
(Corporate Seal)	Surety
	Address
	Phone No.: ( ) Fax No.: ( )
	ByAttorneys-in-Fact
	Attorneys-in-Fact
	Title
(Attach Notarial Acknowledgment)	
NOTE TO SURETY COMPANY resolution of authority for the atto	There must be submitted a certified copy of unrevoked orneys-in-fact.
(Seal)	Witness
Approved as to form:	
Risk Manager	<del>_</del>

## **SPECIAL PROVISIONS**

City Project No: 20-026

**RWQCF Flotator No. 3 Recoating** 

#### SECTION 1 SPECIFICATIONS AND PLANS

## **SPECIAL NOTES:**

- 1. Official bid documents including plans and specifications are available online at <a href="http://www.cityofturlock.org/capitalprojects">http://www.cityofturlock.org/capitalprojects</a>. All bids submitted for this project must conform to the requirements of the official bid documents, including plans and specifications.
- 2. A mandatory pre-bid meeting will be held on June 1, 2021 at 9:00 AM at the Turlock Regional Water Quality Control Facility located at 901 S. Walnut Road, Turlock, California.
- 3. Record Drawings for Floatator No. 3 are attached as an appendix to these Special Provisions. There are no project plans associated with this project.

#### 1.01 SPECIFICATIONS:

The work described herein shall be done in accordance with the current City of Turlock Standard Specifications and the 2010 Edition of the State of California, Department of Transportation Standard Specifications and Standard Plans (with exception that English units are to be used in place of metric) and in accordance with the following Special Provisions.

The Contract Documents are complementary; what is required by one is as binding as if required by all.

It is the intent of the Contract Documents to describe a functionally complete project (or part thereof) to be constructed in accordance with the Contract Documents. Any labor, documentation, services, materials, or equipment that may reasonably be inferred from the Contract Documents or from prevailing custom or trade usage as being required to produce the intended result will be provided whether or not specifically called for at no additional cost to City.

Clarifications and interpretations of the Contract Documents shall be issued by Engineer.

In case of conflict or discrepancy between any of the Contract Documents, the order of documents listed below shall be the order of precedence, with the first item listed having the highest precedence.

- 1. Contract Change Order (Modifications or changes last in time are first in precedence).
- 2. Addenda to Contract Agreement
- 3. Contract Agreement
- 4. Permits
- 5. Special Provisions

- 6. Notice Inviting Bids and Instructions to Bidders
- 7. Project Drawings
- 8. City of Turlock Standard Specifications
- 9. City of Turlock Standard Drawings
- 10. Caltrans Standard Specifications
- 11. Caltrans Standard Plans

With regards to discrepancies or conflicts between written dimensions given on drawings and the scaled measurements, the written dimensions shall govern.

With regards to discrepancies or conflicts between large-scale drawings and small-scale drawings, the larger scale shall govern.

With regards to discrepancies or conflicts between detailed drawings and referenced standard drawings or plans, the detailed drawings shall govern.

In the event where provisions of codes, safety orders, contract documents, referenced manufacturer's specifications or industry standards are in conflict, the more restrictive and higher quality shall govern.

Should it appear that the work to be done or any of the matters relative thereto are not sufficiently detailed or explained in these specifications, the special provisions, or the plans, the Contractor shall apply to the Engineer in writing for such further explanations as may be necessary and shall conform to them as part of the contract. All responses from the Engineer shall also be in writing. In the event of any doubt or question arising respecting the true meaning of these specifications, the special provisions or the plans, reference shall be made to the Engineer, whose decision thereon shall be final.

## 1.02 CONTRACTOR'S RESPONSIBILITY:

The Contractor shall examine carefully the site of the work and the plans and specifications therefore. The Contractor shall investigate to their satisfaction as to conditions to be encountered, the character, quality and quantity of surface, subsurface materials or obstacles to be encountered, the work to be performed, materials to be furnished, and as to the requirements of the bid, plans and specifications of the contract.

## 1.03 COMPLETENESS AND ACCURACY OF PLANS AND SPECIFICATIONS:

Pursuant to the California Public Contract Code, the bidder is required to review architectural or engineering plans and specifications prior to submission of a bid, and report any errors and omissions noted by Contractor to the architect, engineer or owner five days prior to the bid opening date.

## SECTION 2 PROPOSAL REQUIREMENTS AND CONDITIONS

#### **2.01 GENERAL:**

The Contractor's attention is directed to the "Notice to Contractor" for the date, time and location of the mandatory Pre-Bid meeting, if applicable.

The bidder's attention is directed to the provisions in Proposal for this bid for the requirements and conditions which the bidder must observe in the preparation of and the submission of the bid.

The bidder's bond shall conform to the bond form in the Bid book for the project and shall be properly filled out and executed. The bidder's bond form included in that book must be used.

In conformance with Public Contract Code Section 7106, a Noncollusion Affidavit is included in the Bid book. Signing the Bid book shall also constitute signature of the Noncollusion Affidavit.

The contractor, sub recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of Title 49 CFR (Code of Federal Regulations) part 26 in the award and administration of US DOT assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy, as the recipient deems appropriate. Each subcontract signed by the bidder must include this assurance.

## 2.02 EXISTING UTILITIES, FACILITIES, AND SITE CONDITIONS:

The actual sizes, locations and materials of existing utilities and facilities shown on the plans may vary from what is shown on the plans. Attention is directed to the possible existence of underground facilities not indicated on the plans or in the special provisions. Contractor shall be responsible for verifying the locations and nature of the existing utilities, protecting them from damage and notifying Engineer of their location and nature.

Contractor shall examine carefully the site of the work. It is assumed that Contractor has investigated and is satisfied as to the conditions to be encountered as to the character, quality and quantities of work to be performed.

Full compensation for furnishing all labor, materials, tools, equipment (including dewatering devices), and incidentals, and for doing all the work involved with and/or in verifying existing utilities, facilities, site and subsurface conditions as specified above, shall be considered as included in the prices paid for the various contract items of work and no additional compensation will be allowed therefore

#### SECTION 3 AWARD AND EXECUTION OF CONTRACT

#### **3.01 GENERAL:**

The Contractor's attention is directed to the provisions in the Contract for the requirements and conditions concerning award and execution of contract.

The contract shall be executed by the successful bidder and shall be returned, together with the contract bonds and insurance, to the City so that it is received within ten (10) working days after the bidder has received the contract for execution. Failure to do so shall be just cause for forfeiture of the proposal guaranty. The executed contract documents shall be delivered to the following address:

Attention: Tania Hernandez City of Turlock, Engineering Division 156 S Broadway, Suite 150 Turlock, CA 95380

Bid protests are due in writing by the fifth calendar day after the bid opening and are to be delivered to the following address:

Nathan Bray, PE 156 S Broadway Suite 150 Turlock, CA 95380

The award of the contract, if it be awarded, will be to the lowest responsible bidder whose bid complies with all the requirements prescribed.

## SECTION 4 BEGINNING OF WORK, TIME OF COMPLETION AND DELAY DAMAGES

Attention is directed to Section 6 "Time For Performance" of the Contract.

At no time shall construction begin prior to the issuance of the Notice to Proceed. Any work performed prior to the Notice to Proceed shall be done at the Contractor's own risk and payment will not be made therefor.

Should the Contractor choose to work on a Saturday, Sunday or Legal Holiday as defined in the Section titled "Working Hours," of these Special Provisions, the Contractor shall reimburse the City of Turlock the actual cost of engineering, inspection, testing, superintendent, and/or other overhead expenses which are directly chargeable to the contract. Should such work be undertaken at the request of the City, reimbursement will not be required.

Attention is directed to "Delay Damages" referenced in the Contract.

A pre-construction meeting will be held between Contractor and City prior to the beginning of construction. The exact time and place of this conference will be determined by City after award of the construction contract.

City shall furnish to Contractor five hard copies of the Contract Documents and plans. Contractor may produce additional copies as needed at Contractor's expense.

## **SECTION 5 GENERAL**

## 5.01 LABOR NONDISCRIMINATION:

Attention is directed to the following Notice that is required by Chapter 5 of Division 4 of Title 2, California Code of Regulations.

NOTICE OF REQUIREMENT FOR NONDISCRIMINATION PROGRAM (GOV. CODE, SECTION 12990)

Your attention is called to the "Nondiscrimination Clause", set forth in Section 7 1.01A(4), "Labor Nondiscrimination," of the Caltrans Standard Specifications, which is applicable to all nonexempt state contracts and subcontracts, and to the "Standard California Nondiscrimination Construction Contract Specifications" set forth therein. The Specifications are applicable to all nonexempt state construction contracts and subcontracts of \$5,000 or more.

#### 5.02 PREVAILING WAGE:

Attention is directed to Section 7-1.02K "Labor Code," of the Caltrans Standard Specifications.

Pursuant to Section 1773 of the Labor Code, the general prevailing wage rates in the county Stanislaus in which the work is to be done have been determined by the Director of the California Department of Industrial Relations. These wages are set forth in the General Prevailing Wage Rates for this project, available at 156 S. Broadway St, Turlock, CA 95380 and available from the California Department of Industrial Relations' Internet web site at http://www.dir.ca.gov/DLSR/PWD.

## 5.03 REMOVAL OF ASBESTOS AND HAZARDOUS SUBSTANCES:

The contractor shall promptly, and before the following conditions are disturbed, notify the local public entity, in writing, of any:

- Material that the contractor believes may be material that is hazardous waste, as defined in Section 25117 of the Health and Safety Code, that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law.
- 2. Subsurface or latent physical conditions at the site differing from those indicated by information about the site made available to bidders prior to the deadline for submitting bids.
- 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.

Upon notification of any of the above, the City shall promptly investigate the conditions, and if it finds that the conditions do materially so differ, or do involve hazardous waste, and cause a decrease or increase in the contractor's cost of, or the time required for, performance of any part of the work, a change order shall be issued to modify the contract scope.

In the event that a dispute arises between the City 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, the contractor shall not be excused from any scheduled completion date provided for by the contract, but shall proceed with all work to be performed under the contract. The contractor shall retain any and all rights provided either by contract or by law which pertain to the resolution of disputes and protests between the contracting parties.

#### 5.04 SUBCONTRACTING:

No subcontract releases the Contractor from the contract or relieves the Contractor of their responsibility for a subcontractor's work.

If the Contractor violates Pub Cont Code § 4100 et seq., the City may exercise the remedies provided under Pub Cont Code § 4110. The City may refer the violation to the Contractors State License Board as provided under Pub Cont Code § 4111.

Each subcontract must comply with the contract.

Each subcontractor must have an active and valid State contractor's license with a classification appropriate for the work to be performed (Bus & Prof Code, § 7000 et seq.).

At the pre-construction meeting, prior to starting work, Contractor shall submit a complete listing of subcontractors and the value of the work each subcontractor will perform. This list shall contain all information identified on Exhibit 12-G of the Local Assistance Procedures Manuel.

Before subcontracted work starts, submit a Subcontracting Request form.

Do not use a debarred contractor; a current list of debarred contractors is available at the Department of Industrial Relations' Web site.

Upon request by the Engineer, immediately remove and not again use a subcontractor who fails to prosecute the work satisfactorily.

#### 5.05 PROMPT PROGRESS PAYMENT TO SUBCONTRACTORS:

A prime contractor or subcontractor shall pay any subcontractor not later than 10 days of receipt of each progress payment in accordance with the provision in Section 7108.5 of the California Business and Professions Code concerning prompt payment to subcontractors. The 10 days is applicable unless a longer period is agreed to in writing. Any delay or postponement of payment over 30 days may take place only for good cause and with the agency's prior written approval. Any violation of Section 7108.5 shall subject the violating contractor or subcontractor to the penalties, sanction and other remedies of that section. This requirement shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to the contractor or subcontractor in the event of a dispute involving late payment or nonpayment by the prime contractor, deficient subcontract performance, or noncompliance by a subcontractor.

## 5.06 PROMPT PAYMENT OF FUNDS WITHHELD TO SUBCONTRACTORS::

The agency shall hold retainage from the prime contractor and shall make prompt and regular incremental acceptances of portions, as determined by the agency, of the contract work, and pay retainage to the prime contractor based on these acceptances. The prime contractor, or subcontractor, shall return all monies withheld in retention from a subcontractor within 30 days after receiving payment for work satisfactorily completed and accepted including incremental acceptances of portions of the contract work by the agency. Federal law (49CFR26.29) requires that any delay or postponement of payment over 30 days may take place only for good cause and with the agency's prior written approval. Any violation of this provision shall subject the violating prime contractor or subcontractor to the penalties, sanctions and other remedies specified in Section 7108.5 of the Business and Professions Code. These requirements shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to

the prime contractor or subcontractor in the event of a dispute involving late payment or nonpayment by the prime contractor, deficient subcontract performance, or noncompliance by a subcontractor.

#### 5.07 PAYMENTS:

Attention is directed to Section 19, "Payments to Contractor," of the Contract.

At the end of each month the Contractor shall submit a proposed progress invoice. The invoice shall delineate each bid item, the amount of work performed for the invoice period (previous month) and the total amount of work performed to date. A sample invoice with all of the required items will be given to the Contractor at the pre-construction meeting.

The Engineer will review the progress invoice and after any changes the Engineer makes, will issue an official invoice for the Contractor to sign. The Contractor shall sign the official invoice and return to the Engineer. After the Engineer receives the signed, official invoice, the progress payment will be processed.

Retention in the amount of 5% of the progress payment amount shall be held from all progress payments. Retention will be released 35 days after the Notice of Completion has been filed, insofar as no stop notices were filed.

#### 5.08 GUARANTY:

Attention is directed to Section 9-4, "Guaranty," of the City of Turlock Standard Specifications.

#### 5.09 WORKING HOURS:

Contractor's working hours shall be between 7:00 a.m. and 5:00 p.m., Monday through Friday, excluding legal holidays.

Contractor shall notify Engineer 48 hours prior to beginning work.

Contractor shall not work outside the above-mentioned working hours without prior written consent of Engineer.

Designated legal holidays are: January 1st, the third Monday in January, the third Monday in February, the last Monday in May, July 4th, the first Monday in September, November 11th, Thanksgiving Day, the day after Thanksgiving, and December 25th. When a designated legal holiday falls on a Sunday, the following Monday shall be a designated legal holiday. When a designated legal holiday falls on a Saturday, the preceding Friday shall be a designated legal holiday.

## 5.10 UNDERGROUND SERVICE ALERT REQUIREMENTS:

Contractor shall contact Underground Service Alert of Northern California at least 48 hours in advance of any construction activity, will or could damage or affect any underground utility or subsurface improvement, and obtain an inquiry identification number. Contractor shall notify Underground Service Alert in the event of change in the project limits or change in original work previously shown on the plans or indicated in the specifications. Contractor shall not commence construction prior to City Inspector receiving City's notice from USA North regarding this construction activity.

Full compensation for Dust Control will be considered as included in the various contract items of work requiring Dust Control, as determined by Engineer, and no separate payment will be made therefor.

#### 5.11 USE OF HYDRANTS FOR CONSTRUCTION PURPOSES:

City will permit the use of a hydrant for construction purposes provided that the following are abided by:

- 1. A spanner wrench shall be the only type of wrench used on fire hydrants.
- 2. Contractor shall be liable for the damages to or loss of all hydrants and associated water lines and equipment which result from the use of this equipment.
- 3. Water shall only be used within City limits.
- 4. The vehicle must be approved by Engineer for approved backflow device.
- 5. Contractor shall pay a deposit on a water meter provided by the City. After the project ended the Contractor shall return the meter to the City for the release of the deposit.

However, use of city hydrants does not exempt Contractor from providing a water truck where hydrants cannot be utilized due to unsafe working conditions as deemed by Engineer.

#### 5.12 PROGRESS SCHEDULE:

Contractor shall furnish City with a Critical Path Method progress schedule. The progress schedule shall show the construction activities extending for the duration of the working days. Any deviation from the outline must be approved by Engineer. Contractor shall not be allowed to start construction activities until the progress schedule is accepted by Engineer.

## 5.13 PRESERVATION OF PROPERTY:

The work performed in connection with various existing facilities shall be in accordance with Section 7-8, "Preservation of Property," of the Standard Specifications and these special provisions.

Due care shall be exercised to avoid injury or damage to existing improvements or facilities, utility facilities, adjacent property, and roadside trees, shrubs and other plants that are to remain in place.

Roadside trees, shrubs and other plants that are not to be removed and pole lines, fences, signs, markers and monuments, buildings and structures, conduits, pipelines under or above aground, sewer and water lines, sprinkler systems above or below ground, all roadway facilities, and any other improvements or facilities within or adjacent to the right-of-way shall be protected from injury or damage, and if ordered by Engineer, Contractor shall provide and install suitable safeguards, approved by Engineer, to protect such objects from injury or damage. If such objects are injured or damaged by reason of Contractor's operations they shall be replaced or restored at Contractor's expense. The facilities shall be replaced or restored to a condition as good or better as when Contractor entered upon the work, or as good as required by the specifications accompanying the contract, if any such objects are a part of the work being performed under the contract. Engineer may make or cause to be made such temporary repairs as necessary to restore to service any damaged facility. The cost of such repairs shall be borne by Contractor and may be deducted from any moneys due or to become due to Contractor under the contract.

The fact that any underground facility is not shown upon the plans shall not relieve Contractor of his responsibility under Section 2.02, "Existing Utilities and Facilities", of these provisions. It shall be Contractor's responsibility, pursuant thereto, to ascertain the location of such underground improvements or facilities that may be subject to damage by reason of his operations.

Full compensation for furnishing all labor materials, tools, equipment, and incidentals, and for doing all the work involved in protecting or repairing property as specified above, shall be considered as included in the prices paid for the various contract items of work and no additional compensation will be allowed therefore.

#### 5.14 ORDER OF WORK:

Order or work shall be in accordance with the provisions in Section 5-1.05, "Order of Work," of the Caltrans Standard Specifications and these special provisions.

#### **5.15 TESTING:**

Unless otherwise noted, City of Turlock will supply all acceptance testing. Coordination of said testing is the responsibility of Contractor through the project's inspector. The Contractor shall provide at least 24 hours' notice to the Engineer in advance of needing acceptance testing. If the Contractor request testing and the Contractor is not ready for the testing to occur, the Contractor shall be back charged the cover the cost of the testing firm.

At sites chosen by the project inspector, City's testing laboratory will conduct all tests. Contractor shall supply any necessary equipment and or labor required to obtain all samples for the completion of the testing process.

City of Turlock shall compensate the testing laboratory for all initial tests. Secondary and all other followup tests required due to failure of initial testing shall be reimbursed to City of Turlock as a deductive change order at cost.

#### 5.16 SUBMITTALS:

General submittals shall be made in accordance with the Special Provision Section titled "Internet Based Construction Management System," of these special provisions.

Before making submittals, Contractor shall ensure that products and materials will be available in the quantities and in the time required by the Contract and the approved outline of construction activity. Each submittal shall clearly identify, by highlighting, arrows or other defined and permanent mark, the products and materials proposed for use.

All Submittals shall be made to Engineer by Contractor, including those generated by subcontractors and suppliers. Contractor shall carefully review all subcontractor and supplier submittals before submitting to Engineer for review. Submittals received from sources other than Contractor's office shall be returned without action. If a submittal contains extraneous information, unmarked options or is incomplete, it will be returned to Contractor for correction and require re-submittal.

Submittals will be processed by Engineer within ten (10) working days after receipt from Contractor. Engineer will review submittals for general conformance with the Contract Documents and standards. Such review by Engineer shall not relieve Contractor or any subcontractor of any responsibility for full compliance with the Contract Documents. Unless specifically authorized to do so by Engineer, Contractor shall not procure, manufacture, or fabricate any part of the contract work until submittals related to said contract work have been favorably reviewed by Engineer.

In most cases, submittals will be processed electronically per the Special Provision Section titled "Internet Based Construction Management System" of these special provisions. If a physical copy of a submittal is required, the following shall deliver five (5) copies of each submittal to Engineer which shall contain, at a minimum, the following information:

1. Title page including the following information:

Project Number and Name.

Name of Contractor.

Name of subcontractor (if applicable).

Description of item.

Item Number on Bid Schedule.

Date of Submittal.

Contractor's initials and date indicating approval of item for submittal to Engineer.

- 2. Index Sheet (For submittals containing information on multiple components. Each component shall be cross-identified with reference to a divider tab number).
- 3. Divider Tabs (For submittals containing information on multiple components. Tab numbers shall correspond to the index sheet for each component in the submittal).
- 4. The brochure, product data sheet or catalog cut (For each component in the submittal, separated by their respective divider tabs).
- 5. For shop drawings, Contractor shall submit five (5) clean, low background reproducible prints. Shop drawings larger than 11 x 17 in. shall be rolled, not folded.
- 6. Submittals that involve engineering computations or original design work shall show the name, the California State registration number, seal, and signature of the Professional Engineer certifying that such computations or design work are correct and in conformance with applicable standards, codes and accepted engineering practices.
- 7. For product samples, Contractor shall submit two (2) representative samples, one of which may be retained for the duration of the project or indefinitely at the discretion of Engineer. Although a reasonable attempt will be made to maintain the samples in good condition, neither City nor its representative will be responsible for the condition of the samples if returned to Contractor.

- 8. For material samples, unless a specific quantity is called for in the contract documents, Contractor shall submit a representative sample of the material, which may be retained for the duration of the project or indefinitely at the discretion of Engineer.
- 9. Certificates of compliance shall be submitted by Contractor to Engineer for those materials and products for which no sample and test results are specified. Certificates of compliance shall include the following information:

Statement that the product complies with the respective contract specifications.

Producer's name and address, product trade name and catalog number (if applicable), place of product origin, quantity of product to be furnished, and related contract plans and specification section numbers.

A certified copy of test results pertaining to the product from a certified independent testing laboratory. At the option of Engineer certified test results shall be signed and sealed by a Professional Engineer licensed to practice in the state of California.

Contractor shall submit Material Safety Data Sheets (MSDS) for all materials used or stored on the site that possess a MSDS, including materials used by Contractor for maintenance of equipment.

#### 5.17 NOTICE OF POTENTIAL CLAIM:

Attention is directed to Section 5-1.43 "Potential Claims and Dispute Resolution," of the Caltrans Standard Specifications.

## 5.18 INTERNET BASED CONSTRUCTION MANAGEMENT SYSTEM:

#### General

The Engineer and Contractor shall utilize Virtual Project Manager (http://www.virtual-pm.com/), herein after called VPM, for submission of all data and documents (unless specified otherwise in this Section) throughout the duration of the Contract. VPM is an electronic project management system accessible through the Internet used to create, share, and review construction management documentation. VPM is provided by the Engineer at no cost to the Contractor. VPM will be made available to all Contractors' personnel, subcontractor personnel, suppliers, consultants, Engineer, and any of Engineer's representatives or agents. The joint use of this system is to facilitate electronic exchange of information, automation of key processes, electronic notification of project activity, and overall management of contract documentation. VPM shall be the primary means of project information submission and management.

The Engineer will establish the Contractor's access to VPM by enabling access and assigning user profiles to Contractor personnel, including subcontractors and suppliers, as requested by Contractor. All authorized personnel shall have an individual user profile; no joint-use or shared user profiles will be allowed. Each user profile shall be assigned to a user group and have specific permission settings and privileges based on the user's need within VPM. Entry of information exchanged and transferred between the Contractor and its subcontractors and suppliers on VPM shall be the responsibility of the Contractor.

The Contractor shall use computer hardware and software that meets the requirements of the VPM system. As recommendations are modified by VPM, the Contractor will upgrade their system(s) to meet or exceed the recommendations. Upgrading of the Contractor's computer systems will not be justification for a cost or time modification to the Contract. The Contractor shall ensure its own connectivity to VPM through their internet service provider.

The Contractor shall be responsible for the validity of the information they place in VPM, for the training of their personnel to understand and utilize VPM, as well as the provision and accessibility of adequate resources to connect with VPM. Accepted users shall be knowledgeable in the use of computers, including Internet browsers, email programs, and the Portable Document Format (PDF) document type. The Contractor shall utilize the existing forms in VPM to the maximum extent possible. If a form does not exist in VPM the Contractor must include their own form or a form provided by the Engineer as an attachment to a submittal, RFI, or other document within VPM. Note that only the following file types are accepted as attachments to documents within VPM: PDF files, Microsoft Word (DOC) files, Microsoft Excel (XLS) files, picture files (JPG, TIFF, BMP, JPEG, etc.). PDF documents will be created through electronic conversion prior to uploading, such as through a "print to file" feature or "save as pdf" feature, rather than optically scanned whenever possible.

Contractor shall provide a list of key VPM personnel for the Engineer's acceptance. The list shall include the following information: first name, last name, address, title, office phone number, cell phone number, and email address. The Engineer is responsible for adding and removing users from the system and establishing read, write, and approval permission levels.

## Company Documents

This area is reserved for general documentation not related to a specific project. Only the Engineer shall post content in this area. Examples of content found in this area are: the City of Turlock Standard Specifications and Drawings, the 2010 Caltrans Standard Specifications, and the 2010 Caltrans Standard Plans. All files are in PDF format.

## Project Summary

The project summary tab provides an overall summary of the project. It includes the current weather, the working days remaining and a summary of work for the past week. The summary of work is generated from the City's project inspector and the daily logs. This tab is for information only and the Contractor shall not take any action here.

## Task Manager

The project schedule the Contractor submits is converted into a format that is uploaded by the Engineer into the task manager tab. The Contractor is responsible for providing schedule updates to the Engineer whenever the work progress in a manner different than the approved schedule.

## Change Order Manager

The change order manager tab shall be used to track project change orders. Any potential change orders shall be tracked as a Request for Information (RFI) in the RFI tab. Once the Engineer agrees that a RFI will result in a contract change order, a new contract change order shall be created by the Engineer in the change order manager tab. The Engineer will finalize the contract change order through this tab. Once

the change order is finalized, the Engineer will present the contract change order at a City Council meeting. After City Council approval the Engineer will make payment on the contract change order.

### **Transmittals**

The transmittal tab shall be used to communicate general project information amongst all parties as well as used by the Contractor in the submission of certified payroll reports. The Engineer will upload the project-specific information including: bid documents, conformed plans, conformed specifications and the Notice to Proceed to the transmittal tab.

The Contractor shall submit certified payroll reports on a weekly basis through the transmittal tab. Each week shall have a separate transmittal where all the certified payroll reports and statements of non-performance for each contractor shall be posted.

## <u>Submittals</u>

All submittals shall be submitted through the submittal tab. The preferred document type is PDF.

Before making submittals, the Contractor shall ensure that products and materials will be available in the quantities and in the time required by the Contract and the approved schedule of activities. Each submittal shall be legible and clearly identify, by highlighting, arrows or other defined and permanent mark, the products and materials proposed for use.

All submittals shall be generated from the prime contractor and any submittals that are uploaded by subcontractors or suppliers will not be reviewed. Contractor shall carefully review all subcontractor and suppliers' submittals before submitting it to the Engineer for review. If a submittal contains extraneous information, unmarked options or is otherwise incomplete, it will be rejected and the Contractor shall make corrections and upload the resubmittal. Any resubmittal shall be made to the same transmittal item in VPM.

Submittals shall be processed by the Engineer within ten working days after upload to VPM. The Engineer will review submittals for general conformance with the Contract Documents and standards. Such review by the Engineer shall not relieve the Contractor of any responsibility for full compliance with the Contract Documents. Unless specifically authorized to do so by the Engineer, the Contractor shall not procure, manufacture, or fabricate any part of the contract work until submittals related to said contract work have been approved by the Engineer.

Each submittal shall have a unique title that is comprised of the item followed by a comma and the section of the specifications that reference the item (e.g. Minor Concrete, Section 8.01). The submittal type shall either be project materials or project information. The submittal description shall be used to identify any pertinent information or list a description of the item being submitted.

Certificates of compliance shall be submitted through the submittal tab. The submittal type shall be "certificate of compliance".

The Contractor shall submit progress invoices on the last working day of the month through the transmittal tab (select "progress invoice" for the type). The Engineer will review the submitted content

and if found acceptable the Engineer will upload an official invoice for the Contractor to sign. The Contractor shall sign in blue ink and upload the signed invoice to the same transmittal where the Engineer will then process for payment.

## **RFIs**

The RFI tab shall be used to request information from the Contractor to the Engineer. The Contractor shall create a RFI upon recognition of any event or question of fact arising from the contract work. The RFI type for this submittal shall be "Request for Information." The Engineer will also utilize the RFI tab in a similar manner when there is a question for the Contractor; this RFI type shall be "Response Required."

The Engineer will respond to a RFI submitted by the Contractor within five days. The Contractor shall proceed with the work unless otherwise ordered.

## Daily Logs

The daily log tab is used by the City to document the activities of the work, any correspondence or direction given in the field, safety concerns and general comments about the project. The Contractor may view the contents of this tab for reference purposes. The information entered into the daily log tab is used to populate the project summary tab.

#### **WSWD**

The weekly statement of working days will be posted to the WSWD tab. VPM automatically generates the WSWD from the information entered into the daily log tab. The WSWD shows the working days and non-working days charged for the reporting week, any time adjustments, a work completion date with the remaining working days left in the contract and the controlling activities for the week.

The Contractor will be allowed 15 days from the last working day of the weekly statement to protest in writing the correctness of the statement. The Contractor shall submit a transmittal stating what is being protested and the reasons for protest. The Engineer will respond to the protest. The Contractor may protest the Engineer's response by submitting a claim in accordance with the Special Provisions titled "Notice of Potential Claim" of the special provisions.

#### 5.31 BUSINESS LICENSE:

Contractor shall obtain a City of Turlock business license prior to issuance of the Notice to Proceed. The cost of the business license is an up-front fee of eighty four dollars (\$84) plus fifty cents per thousand dollars in revenue received for work performed on the project, made payable on a semi-annual basis. Business Licenses are obtained through the Finance Division at Turlock City Hall, 156 S. Broadway, Suite 114. Additional information can be found on the City's website at http://ci.turlock.ca.us/doingbusinessinturlock/businesslicenses/newbusinesslicense.asp.

Full compensation for obtaining a business license as specified above shall be considered as included in the prices paid for the various contract items of work and no additional compensation will be allowed therefore.

## SECTION 6 (BLANK)

## **SECTION 7 (BLANK)**

## **SECTION 8 MATERIALS (BLANK)**

### SECTION 9 DESCRIPTION OF WORK

The work consists, in general of: Rehabilitate floatator no. 3 at the Turlock Regional Water Quality Control Facility through means of abrasive blasting and installation of a high performance coating system and other associated work.

The work includes all necessary labor, materials, tools, equipment and any incidentals needed to perform the improvements as shown on the contract plans.

## SECTION 10 CONSTRUCTION DETAILS

#### 10.01 MOBILIZATION & DEMOBILIZATION

Mobilization is intended to compensate the Contractor for operations including, but not limited to, those necessary for the movement of personnel, equipment, supplies and incidentals to / from the project site; for the payment of premium cost and insurance for the project; for any necessary costs of acquisition of equipment, including purchase and mobilization expense; and for any other work and operations which must be performed or costs that must be incurred incident to the initiation of meaningful work at the site and for which payment is not otherwise provided in the contract.

- (1) When 5 percent of the original contract amount is earned, 50 percent of the amount bid for mobilization, or 5 percent of the original contract amount, whichever is less, may be paid.
- (2) When 10 percent of the original contract amount is earned, 75 percent of the amount bid for mobilization or 7.5 percent of the original contract amount, whichever is less, may be paid.
- (3) When 20 percent of the original contract amount is earned, 95 percent of the amount bid for mobilization, or 9.5 percent of the original contract amount, whichever is less, may be paid.
- (4) When 50 percent of the original contract amount is earned, 100 percent of the amount bid for mobilization, or 10 percent of the original contract amount, whichever is less, may be paid.
- (5) Upon completion of all work on the project, payment of any amount bid for mobilization in excess of 10 percent of the original contract amount will be paid.

## 10.02 FINAL CLEANUP:

Upon completion of the work, the Contractor shall remove all equipment, debris, and shall leave the site in a neat clean condition to the satisfaction of the Engineer. The Contractor shall clean the area of all

construction related materials and sweep the entire project area including sidewalk and gutter thoroughly. All construction signs, cones, barricades, and conflicting markings shall be removed. At the request of the Contractor, a final punch list will be provided. After all items of the punch list have been completed to the satisfaction of the Engineer, the Engineer will issue substantial completion. The accrual of working days will cease after substantial completion has been issued.

# SECTION 11 TECHNICAL SPECIFICATIONS - REHABILITATION OF PRIMARY FLOATATOR NO. 3

## PART 1 GENERAL

### 1.01 SCOPE OF WORK

- A. Provide all labor, materials, equipment, and incidentals required to remove by abrasive blasting the existing coating system rake arms including, all piping, bridge, and decking. Contractor shall remove existing handrails, pressurization tank, piping, and all other miscellaneous steel on the interior of the Floatator as necessary to remove and replace the coating system as required, then replace existing equipment. Contractor shall use abrasive blasting method on bridge decks and apply a non-skid system to the topside of the deck. Caulk all skip welds with Sika 1-A after prime coating on both sides of the deck. Caulk voids on the piping brackets. Apply new coating system to all floatator interior metal work with an approved high solids epoxy. An epoxy urethane system shall be used above the waterline. The Contractor shall fully contain abrasive blasting dust and over spray during the project. The Contractor shall be fully responsible for any damaged handrails, pumps, bearings, and motors damaged by abrasive blasting or overspray. No containment tarps shall be tided off on the handrails.
- B. Dispose of all wastes from abrasive blasting, and any other wastes generated during the Work. Sample and test wastes as required by regulatory agencies, and as necessary for classification of wastes prior to disposal. This work includes all costs for waste sampling, testing, accumulation, transport, and disposal, including the cost for wastes classified as hazardous and non-hazardous. The Contractor is solely responsible for all testing and disposal cost.
- C. The Contractor may expect that the entire surface under the existing coatings is corroded or has mil scale, and shall completely remove such materials down to bare steel, (SP#5) white metal blast to allow for proper adhesion of the coating system.
- D. A two-year anniversary inspection will be conducted by the City with Contractor present on site. Contractor shall furnish floor protection, lighting, and scaffolding. Contractor shall also be present at the inspection. The District shall wash out Clarifier and remove sediment for inspection.

## 1.02 GOVERNING STANDARDS

The following standards shall govern the work unless specified otherwise in these specifications. The latest version of each standard shall be used.

SSPC-Vol.1,	Steel Structures Painting Manual, Good Painting
	Practice.
SSPC-Vol.2,	Steel Structures Painting Manual, Systems and
	Specifications.
SSPC-SP 1	Solvent Cleaning
SSPC-SP 2	Hand Tool Cleaning
SSPC-SP 3	Power Tool Cleaning
SSPC-SP 5	White Metal Blast Cleaning
SSPC-SP Guide 11	Stripe Coating
SSPC-SP 7	Brush-Off Blast Cleaning
SSPC-SP 10	Near White Blast Cleaning
SSPC-SP 11	Power Tool Cleaning to Bare Metal
SSPC-AB 1	Mineral and Slag Abrasives
SSPC-PA 1	Shop, Field and Maintenance Painting
SSPS-PA Guide 3	Guide to Safety in Paint Application
SSPS-PA Guide 12	Lighting
SSPC Guide 16	Dust Collection
SSPC-Guide to Vis 1-89	Visual Standard for Abrasive Blast Cleaned Steel
SSPC-V15 (3-93)	Visual Standard for Power & Hand-Tool Cleaned Steel
NACE SPO-188	Holiday Testing
NACE SPO-178	Weld Preparation
ISO-8502-3	Preparation of Steel Substrates
All applicable State and Federal OSHA safety standards.	

A. All applicable State of California and Federal OSHA and safety standards.

## 1.03 SUBMITTALS

- A. All submittals shall be prepared and submitted in accordance with the contract documents and Section 1.03 of this technical specification.
- B. Provide a separate submittal for each material to be used in the work. At a minimum provide submittals for:
  - 1. Abrasive material

- 2. Paint system
- 3. Minimum and Maximum re-coat times
- 4. Full Containment Plan.
- 5. Waste Disposal
- 6. Storage of Paint Materials
- C. Submittals should include technical data documenting that the material to be provided complies with these specifications. Submittals will not be accepted until all requirements of this specification have been confirmed.
  - D. Interior coating system submittal shall include the following data:
    - 1. Weight in pounds/gallon ASTM D-2196
    - 2. Percent solids by volume ASTM D-2369
    - 3. Percent solids by weight ASTM D-2369
    - 4. Air cure dry time to re-coat ASTM D-1640
    - 5. Minimum adhesion to steel substrate ASTM D-4541
    - 6. Minimum adhesion value of full system ASTM D-4541 (Type II minimum adhesion 800 PSI)
- 7. Manufacturer's batch numbers and dates of manufacture for materials to be furnished as part of this project.
- E. Provide manufacturer's recommended handling and installation instructions for the proposed paint system including:
  - 1. Storage including maximum and minimum storage temperatures
  - 2. Surface preparation
  - 3. Coating repair
  - 4. Application equipment
  - 5. Mixing and application of coating system including a table of minimum and maximum time to re-coat as a function of temperature
  - Curing including curing time required before holiday testing, and curing time required before immersion as function of temperature and coating thickness. Minimum and maximum re-coat times.
  - 7. Ventilation and Containment Plan
  - 8. Acceptable temperatures at the time of application
  - 9. Dehumidification Equipment

## F. Equipment

- 1. Submit details of vacuum system for removing dust and abrasive from abrasive blast cleaned surfaces.
- 2. Air Compressor-submit manufacturer's latest written operation instructions including recommendations for air filter maintenance and change interval.

## G. Reports

- 1. Submit actual weight of blast cleaning abrasive used for field abrasive blast cleaning. Submit immediately after blasting is completed.
- 2. Submit quantity of coating material used for each coat. Submit immediately after completion of each coat.
- 3. Submit the name of laboratories proposed to be used to test wastes materials.
- 4. Before removing any waste materials from the job site, Contractor shall submit laboratory test results for representative waste samples as required by the owner of the disposal facility.
- 5. Submit receipts from disposal site for all wastes. Receipts shall identify disposed material and source, show quantity of disposed material in tons or cubic yards, and show method used for final disposition as buried, incinerated, and chemically treated and /or other means.

## H. Disposal Plan

- 1. Submit a materials disposal plan that complies with all applicable requirements of the Code of Federal Regulations 40 CFR, Part 261.24 and all applicable regulations of all local, state and federal agencies having jurisdiction over the disposal of spent abrasive blast media, removed coating materials, and other waste, whether hazardous or non-hazardous.
- Submit name and Environmental Laboratory Accreditation Program Certificate number of laboratories that will sample, and test spent abrasive blast media and removed coating materials. Include statement of laboratory's certified testing areas and analyses that laboratory is qualified to perform.
- 3. Submit permission to dispose of material from disposal site owner. Include name, address, and telephone number of disposal site and of owner.
- 4. The Disposal Plan shall be acceptable to the District prior to disposal of any wastes.

## 1.04 QUALITY ASSURANCE

## A. Qualifications

- 1. The Contractor shall be a licensed C-33 Painting Contractor in the State of California. The Contractor shall be regularly engaged in the application of similar coatings for at least five years immediately prior to this work and shall provide evidence of performing coating work on a minimum of one clarifier, or similar structure, per year for the past five years. The Contractor shall provide name of projects with owner's name and phone numbers prior to the award of contract.
- 2. Foreman and workers on-site shall be experienced and knowledgeable in preparation for and application of high-performance industrial coatings.
- B. Workmanship shall conform to standards and recommendations of SSPC Vol. 1, especially Chapters 5.1 and 6.
- C. The Contractor shall provide approved sanitary facilities at Clarifier site for all Contractor personnel, as no existing facilities will be available to the Contractor. Facilities shall be maintained during the project

to complete standards established by the District and shall be removed prior to Contractor's departure from the site at completion of the project.

- D. Testing: The City may use any method deemed necessary to test the Work. A specialized coatings inspection firm shall perform inspections on behalf of the City under separate contract. The City's Engineer will monitor the quality of Work under this Section.
- E. Materials Handling and Use: Coating materials shall be labeled and used in accordance with SSPC-PA 1, Paragraphs 5.1.1 thru 5.1.5, except all coating system materials without a stated shelf life shall be delivered and used within six months of the date of manufacture; and certification, from any source, that the coating system materials are still suitable for use beyond the stated shelf life or beyond the six month period specified above will not be accepted.
  - F. Contractor shall perform the necessary quality assurance in accordance with the approved plan.

#### G. Wastes

- 1. All testing of spent abrasive blast media and removed coating materials to classify these wastes as hazardous or non-hazardous shall be performed by a laboratory that complies with and is certified under the Environmental Laboratory Accreditation Program (ELAP) of the California State Health Division.
- The Laboratory shall perform all analyses needed for comparison to TCLP limits and to all
  other applicable regulatory limits. Laboratory shall retain samples at least ninety (90) calendar
  days after all analyses are complete.
- 3. Contractor shall collect as many representative samples as required by the owner of the disposal facility, but not less than 4 total.
- 4. Each sample shall have an identifying sample number assigned by the Contractor when the sample is taken. Sample number shall be included on the sampling chain of custody and in all reports, correspondence, and other documentation related to the sample. Each sample shall have a sampling chain of custody. Chain of custody shall show the name and organization of each person having custody of the sample, and shall also show the sample number, job name and location, time of day and date sample was taken, material sampled, and tests to be performed.
- The Owner will witness sampling and may take samples for additional analyses if required. Notify the Owner at least 24 hours prior to sampling.

## H. Manufacturer's Representative

1. A qualified technical representative of the coating system manufacturer shall be made available at the job-site at the beginning of the project to evaluate the CONTRACTOR'S test section and periodically throughout as required by the City to

resolve problems related to the coating system or the application of the system.

## 1.05 DELIVERY, STORAGE, AND HANDLING

## A. Delivery

- 1. Deliver abrasive grit in original moisture-proof bags or airtight bulk containers.
- 2. Deliver coating system materials in original, unopened containers with seals unbroken and labels intact. Labels shall identify the following:
  - a) Name or title of material
  - b) Manufacturer's stock number and color
  - c) Manufacturer's name, batch number, specification number
  - d) Generic type
  - e) Application instructions
  - f) Color name and number

No material shall be older than 12 months from the original factory batch date, (No exceptions).

## B. Storage

- 1. Store materials in a single, approved location.
- 2. All operating equipment, fuel, and paint shall be placed in secondary containment.
- 3. All containers shall be handled and stored in such a manner as to prevent damage or loss of labels or containers. All painting materials shall be stored in an enclosed, dry, well-ventilated place, protected from sparks, flame, direct rays of the sun, or from excessive heat. The CONTRACTOR shall be solely responsible for the protection of the materials stored at the job site. Maintain temperature inside the structure within the temperature range recommended by the manufacturer.
- 4. The CONTRACTOR shall comply with the requirements of all pertinent codes and local fire regulations. Proper containers shall be provided by the CONTRACTOR and used for painting wastes. No plumbing fixtures shall be used for this purpose. Empty coating cans shall be neatly stacked and removed from the job site as required by applicable codes.
- 5. Keep storage location clean, neat, and free of fire hazards.

#### C. Handling

1. Do not spill thinners, solvents, paint products or other materials that contain toxic substances.

2. Remove discarded thinners, solvents, and paint products from the jobsite daily. Used rags shall be removed from the job site daily, and every precaution taken against spontaneous combustion.

#### **1.06 SAFETY**

CONTRACTOR shall comply with all Federal, State, and Local applicable safety regulations and requirements.

- A. <u>General.</u> Ventilation, electrical grounding, and care in handling paints, solvents and equipment are important safety precautions during painting projects. The minimum of one complete air change per hour is required. CONTRACTOR shall conform with safety requirements set forth by regulatory agencies applicable to the construction industry and manufacturer's printed instructions and appropriate technical bulletins and manuals. The CONTRACTOR shall provide and require use of personal protective life-saving equipment for persons working in or about the project site. All airlines and blast lines shall have cable safety chokers.
  - 1) <u>Access Facilities.</u> All ladders, scaffolding, and rigging shall be designed for their intended uses.
  - 2) <u>Ventilation.</u> Where ventilation is used to control hazardous exposure, all equipment shall be explosion-proof, of industrial design, and shall be approved by the ENGINEER. Household-type venting equipment will not be acceptable. A minimum of one complete air change per hour is required.
  - 3) <u>Head and Face Protection and Respiratory Devices.</u> Equipment shall include protective helmets, which shall be worn by all persons while in the vicinity of the work. During cleaning operations, nozzle men shall wear U.S. Bureau of Mines approved air-supplied helmets; other persons who are exposed to blasting dust shall wear approved filter-type respirators and safety goggles. When paints are applied in confined areas, all persons exposed to toxic vapors shall wear approved air-supplied masks. Barrier creams shall be used on any exposed areas of skin.
  - 4) <u>Grounding.</u> Spray and air hoses shall be grounded to prevent accumulation of charges of static electricity.
  - 5) <u>Illumination</u>. Spark-proof artificial lighting shall be provided for all work in contained spaces. Light bulbs shall be guarded to prevent breakage. Lighting fixtures and flexible cords shall comply with the requirements of NFPA 70 "National Electric Code" for the atmosphere in which they will be used. Whenever required by ENGINEER, the CONTRACTOR shall provide additional illumination and necessary supports to cover all areas to be inspected. The level of illumination for inspection purposes shall be determined by the ENGINEER. If the inspector cannot adequately inspect the structure due to poor lighting the work will be rejected.

- 6) <u>Toxicity and Explosiveness.</u> The solvents used with specified protective coatings are explosive at low concentrations and are highly toxic. Because of toxicity, the maximum allowable concentration of vapor shall be kept below the maximum safe concentration for an eight-hour exposure, plus Lower Explosive Limit (LEL) must be strictly adhered to. If coatings or paints contain lead or other hazardous materials, all regulations related to safety of personnel and handling of such materials shall be strictly adhered to.
- 7) <u>Protective Clothing.</u> Paint materials may be irritating to the skin and eyes. When handling and mixing paints, workmen shall wear gloves and eye shields.
- 8) <u>Fire.</u> During mixing and application of all materials, all flames, welding, and smoking shall be prohibited in the vicinity. Appropriate type fire abatement devices shall be provided by CONTRACTOR and be readily available at the job site during all operations.
- 9) <u>Sound Levels.</u> Whenever the occupational noise exposure exceeds the maximum allowable sound levels, the CONTRACTOR shall provide and require the use of approved ear protective devices.
  - 10) General sound levels for the project shall be those which will not affect routine facility or neighborhood activities. Whenever levels are objectionable, they shall be adjusted as directed by the ENGINEER.

### 1.07 EXISTING INTERIOR COATINGS

- A. It is the City assumption that the existing Clarifier coatings were applied when the Clarifier was built in 2004.
- B. It is the CONTRACTOR'S responsibility to estimate the quantity and classification of the wastes resulting from the Work, and to accumulate, transport, and dispose of all wastes at no additional cost to the OWNER.

### 1.08 WARRANTY

A. Two-year warranty is required for all coating work

## 1.09 WARRANTY INSPECTION

- A. A first anniversary warranty inspection will be conducted by the City, approximately one year following initial acceptance of the work. At the end of the two years warranty period the City will conduct a re-inspection and issue a final acceptance of the project. The OWNER will establish the date of the inspection and will notify the CONTRACTOR at least thirty (30) calendar days in advance of the inspection. The Floater will be drained by the City for inspection.
- B. Contractor shall furnish at his own expense ventilation, scaffolding, safety devices and lighting equipment as necessary for warranty inspections and shall be present for such inspections.

- C. Inspection Report: City will prepare and deliver to the CONTRACTOR a report of the warranty inspection. The inspection report will set forth the number and types of failures observed, the percentage of surface area where failures have occurred, and the names of the persons making the inspections. Photographs or reports of the coating imperfections or failures shall be considered acceptable evidence of failure.
- D. Failure: Any location where coating has delaminated, peeled, blistered, or cracked, and any location where rusting is evident will be considered a failure of the coating system.
- E. Remedial Work: Repair all failures by removing the deteriorated coating, cleaning the surface, and re-coating with the same system in accordance with this Section and to the satisfaction of the ENGINEER at the sole expense of the CONTRACTOR. With the approval of the City, Surface preparation of small failures (areas less than 1 sq ft.) may be made by cleaning to bare metal in accordance with appropriate SSPC-SP 1, 2, or 11 standards. If the area of failure exceeds 25 percent of a specific painted surface, the entire applied system may be required to be removed and reapplied in accordance with the original specification.
- F. Schedule of Remedial Work: the OWNER will establish a starting date and reasonable time of completion for the remedial work. The starting will be no more than thirty (30) calendar days after the submittal of the inspection report to the CONTRACTOR. Should the CONTRACTOR fail to start the remedial work within ten (calendar days) after the starting date established by the City, the City may at its option perform the remedial work, and the CONTRACTOR shall pay to the OWNER the actual cost of such work, plus 20 percent to cover added engineering and administrative cost.
- G. Warranty inspections of the remedial work shall be at the sole expense of the CONTRACTOR.

# PART 2 PRODUCTS

#### 2.01 INTERIOR COATING SYSTEM MATERIALS

- A. The new interior coating system shall be high solids epoxy recommended for corrosion protection of steel wastewater clarifiers: Devoe #236H, Sherwin Williams Tank clad, or Equal. Solids content shall not be less than 75% by weight. Volatile organic compounds concentration shall be less than 250 grams per liter.
- B. The coating system and any thinners or additives shall be approved.
- C. The coating shall be "certified non-lead" (less than 0.06 percent lead by weight in the dried film) as defined in part 1303 of the consumer products safety act.

#### 2.02 ABRASIVE

- A. Abrasive grit for field blast cleaning shall conform to the following:
  - 1. Produce a sharp angular surface profile of 1.5 minimum to 2.5 mils maximum
  - 2. New, clean, and free of contaminants, and containing no hazardous materials.
  - 3. Only grit type abrasives. No sand or glass abrasives.

# PART 3 EXECUTION

#### 3.01 QUALITY CONTROL

- A. Provide adequate lighting, without shadows, during all phases of work to ensure that work is performed as specified. Illuminate entire area of work.
- B. Provide ground supported scaffolding and lighting, provide manpower to move as determined by the Inspector, to facilitate visual and instrument inspection by the Inspector of each phase of the work and of the completed work. Place as directed to minimize glare and shadows.
- C. The CONTRACTOR shall provide, at his own expense, all necessary power required for his operations under the Contract.
- D. Provide personnel to move OSHA approved scaffolding and furnish other assistance to the City or City's representative as required.
- E. Contractor shall inspect surfaces first. Inspector will verify surfaces after blast cleaning to verify that all deposits of contaminants have been removed. Contractor shall blow down and vacuum all surfaces prior to inspection.
- F. The Contractor's equipment shall be designed for application of materials specified and shall be maintained in first class working condition. Contractor's equipment shall be subject to approval of the ENGINEER. Effective oil and water separators and dryers shall be used in all main compressor- air lines and shall be placed as close as practicable to the equipment. Prior to using compressed air, quality of air downstream of the separators shall be tested at suitable outlets by blowing the air on clean white blotter for 2 minutes to check for any contamination, oil, or moisture. Verify at a minimum of two times daily that air supply is free of oil and moisture contamination.
- G. Measure air temperature, humidity, relative humidity, and metal surface temperature, and determine dew point and relative humidity prior to abrasive blasting or painting each day. Provide portable temperature / humidity recorders to provide continuous permanent hard copy of the floater ambient conditions. Repeat measurements and determination of dew point as often as the Inspector deems necessary but not less often than every four hours.

- H. Maintain a written record of measurements and dew points, and time that measurements were taken. Make record available to Inspector immediately on request.
- I. Inspector will evaluate surface preparation using field abrasive blasting standards, and Testex tape. Evaluation will include inspection of blasted surfaces for dust and abrasive residue, using clear adhesive coated tape. Evaluation will be made immediately prior to coating application. Contractor shall furnish two rolls of extra course tape prior to the start of abrasive blasting. The Contractor shall provide at the beginning of the project one new roll of Testex extra course tape.
- J. Verify cleanliness of all spray application equipment prior to, or no later than, time of mixing coating material.
- K. Prime coat must be applied on all newly blasted surfaces at the end of each shift.
- L. Measure wet film thickness during coating application of coating to ensure adequate coating thickness. Take at least one measurement every 100 square feet.
- M. Measure dry film thickness after each coat using a non-destructive magnetic dry film thickness gauge. SSPC PA-2 will only be utilized for calibration of dry film thickness gauges. This specification is based on a minimum and maximum dry film thickness with no averaging.
- N. Inspector will also measure coating thickness, at random locations, after each coat.
- O. Because of the presence of moisture and possible contaminants in the atmosphere, care shall be taken to ensure that previously painted surfaces are protected or re-cleaned prior to application of subsequent coat(s). Methods of protection and re-cleaning shall be approved by the ENGINEER. Inspector will evaluate cleanliness of coated surface immediately prior to application of a subsequent coat.
- P. CONTRACTOR shall test all coated surfaces for pinholes and holidays after application of the final coat in accordance with the following:
  - Perform test in presence of Inspector with location and frequency basis determined by the City or the City's representative. The City reserves the right to perform holiday testing itself at any time during the testing and rendering decisions based solely upon their tests. Holiday testing shall be 100% of the surface area coated in the Clarifier. All coated surfaces shall be tested as per NACE SPO-188.
  - 2. Perform test after coating has cured as recommended by the manufacturer.
  - 3. Use an appropriate detector, such as an Elcometer Model 236 or as approved by the City's representative. Contractor shall provide one 7" wire brush wand for unit.
  - 4. Re-test after coating repairs until clear.

# 3.02 LIMITING ENVIRONMENTAL CONDITIONS

- A. Do not abrasive blast when air temperature and/or steel temperature are less than 5 degrees F above dew point.
- B. Apply coatings only when conditions are within the limits prescribed by the manufacturer but, do not apply coatings when:
- C. Metal temperature is less than 60 degrees F. or when expected to drop below 60 degrees eight hours after application.
- D. Relative humidity is greater than 45 percent.
- E. When there is dust present in the air or on interior steel surface.

#### 3.03 PREPARATION

- A. Prepare surfaces to be coated in accordance with the manufacturer's instructions but not less than specified herein. All surfaces shall be steam cleaned (180F) and degreased with a degreaser prior to abrasive blasting.
- B. Cleaning. Remove all visible oil, grease, dirt, welding residue, and other contaminants from areas to be coated. Inspection shall use a black light to locate oil and grease. All slag and weld metal accumulation and splatters shall be removed by chipping or grinding as required by the Engineer.
- C. Blast Cleaning. Remove existing coating, under film corrosion, corrosion, and other corrosion products from all areas to be coated. Contractor should expect mil scale under the existing coating system. Prepare all surfaces to be coated by abrasive blast cleaning to SSPC-SP #5 with a surface profile of 1.5 to 2.5 mils.
- D. The areas not to receive coating shall be masked off prior to the application of coatings this includes bearings, name plates, grease fittings and handrails.
- E. Complete abrasive blast cleaning of metal prior to application of coating system.
- F. Do not reuse abrasive blast media unless the media is specifically designed for reuse.

# 3.04 ABRASIVE BLASTING EQUIPMENT

A. Install an oil moisture separator and air dryer in the air line between compressor and blast machine.

- B. Install an air cooler in the airline between the compressor and the oil and moisture separator.
- C. All surfaces to be blast cleaned shall be electrically grounded during blast cleaning.
  - Provide exhaust air dust collector to prevent discharge of dust to outside air.
  - 2. Mask-off and protect all exposed machined metal surfaces, plastic, and other surfaces not to be painted or that may be damaged by abrasive blasting.
  - 3. Remove all dust and abrasive from freshly blasted surfaces. Use approved vacuum system.
  - 4. Dispose of abrasive blast media and other waste materials off-site and in accordance with approved material disposal plan.
  - 5. Contractor shall have a minimum of 95 P.S.I minimum at the end of the blast nozzle.
  - 6. Discard directly from Clarifier to a portable container and remove container from site. Do not place media on ground or other intermediate location.

#### 3.05 OVERCOATING

The contractor shall water blast the exterior of the equipment specified to be overcoated at 5,000 P.S.I. minimum (SSPC/WJ-4) with Devoe Dev-prep #88 or Great Lakes Extra Muscle Detergent. At no time shall cleaning detergents be allowed to dry on the exterior surfaces. The Contractor shall remove all chalking with an end result equal to ASTM D-4214 result #8. The entire existing exterior coatings shall be pole sanded to remove any existing debris in the coating. The Contractor shall power tool clean all areas of visual corrosion as per SSPC/Sp# 3 and as per SSPC/Sp#11. All broken edges shall be feathered to a smooth transition followed by spot priming.

#### 3.06 APPLICATION

#### A. General

- 1. Mix and apply all coatings in accordance with the manufacturer's recommendations and instructions, the applicable requirements of SSPC-PA 1, and as specified herein.
- 2. Obtain Inspector's evaluation and approval of steel surface preparation immediately prior to application of first coat. No thinning shall be allowed at any time.
- CONTRACTOR will coat a test section on the first day of coating as per the coating
  manufacturer's specifications, and the manufacturer's representative will evaluate. Obtain his
  approval before commencing coating operations.
- 4. Obtain Inspector's evaluation and approval of cleanliness of previous coat immediately prior to

- application of a subsequent coat.
- 5. Stripe coat all welds, bolts, nuts, washers, and edges by brush only prior to the finish coat. Each stripe coat shall be allowed to dry as per the data sheet prior proceeding to next coat.
- 6. Care shall be exercised to prevent coating or paint from being spattered onto surfaces, which are not to be coated or painted. Surfaces from which such material cannot be removed satisfactorily shall be refinished as required to produce a finish satisfactory to the ENGINEER.
- 7. Apply coatings by airless spray except:
  - a. Areas of less than 3 square inches may be brushed.
  - b. Required brush striping of welds, nuts, bolts, and edges.
- 8. Apply coatings at a temperature recommended by manufacturer. Prior to mixing, coating materials.
- Discard all catalyzed coatings at the end of each working day or at the end of manufacturer's recommended pot life, whichever is first.
- 10. Scaffolding or other support system shall be free of abrasive blast media, dirt, and other foreign matter prior to application of coatings.
- 11. After each coat and immediately prior to application of a subsequent coat, clean surface as required to remove dirt, dust, over-spray, and other contaminants that may affect adhesion of the subsequent coat.
- 12. Finish coat shall be uniform in color, appearance and gloss over the entire surface. Finish coat shall be smooth to touch with no sags, runs, over-spray, cracks, pinholes or other surface defects.
- 13. Coating should not be applied closer than 6 inches from an unprepared surface.

# B. Color/System below waterline

- 1. Prime coat: #236H White (a) 4.0 to 6.0 mils Dry film thickness
- 2. Intermediate coat: #236H Buff (a) 4.0 to 6.0 mils Dry film thickness
- 3. Finish coat: #236H White @ 4.0 to 6.0 mils Dry film thickness
- 1. Prime coat: S&W Tank Clad White (a) 4.0 to 6.0 mils Dry film thickness
- 2. Intermediate coat: S&W Tank Clad Buff (a) 4.0 to 6.0 mils Dry film thickness
- 3. Finish coat: S&W Tank Clad White (a) 4.0 to 6.0 mils Dry film thickness

# **Steel exposed above the waterline:**

- 1. Prime coat: #231H White @ 4.0 to 6.0 mils Dry film thickness
- 2. Intermediate coat: #231H Buff @ 4.0 to 6.0 mils Dry film thickness
- 3. Finish Coat: #800 Siloxane @ 2.0 to 4.0 mils D.F.T. (Color to be selected by the City)
- 1. 1. Prime coat: S&W Tank Clad @ 4.0 to 6.0 mils Dry film thickness
- 2. 2. Intermediate coat: S&W Tank Clad Buff @ 4.0 to 6.0 mils Dry film thickness
- 3. Finish Coat: S&W Siloxane 800 @ 2.0 to 4.0 mils D.F.T. (Color to be selected by the City)

# **Steel exposed (Overcoating):**

- 1. Spot Prime coat: #231H White @ 4.0 to 6.0 mils Dry film thickness
- 2. Intermediate coat: #231H Buff @ 4.0 to 6.0 mils Dry film thickness
- 3. Finish Coat: #800 Siloxane @ 2.0 to 4.0 mils D.F.T. (Color to be selected by the City)
- 1. Spot Prime coat: S&W Tank Clad @ 4.0 to 6.0 mils Dry film thickness
- 2. Intermediate coat: S&W Tank Clad Buff @ 4.0 to 6.0 mils Dry film thickness
- 3. Finish Coat: S&W Siloxane 800 @ 2.0 to 4.0 mils D.F.T. (Color to be selected by the City)

#### C. Dry Film Thickness system (DFT)

1. 12.0.0 mils minimum to 16.0 mils maximum

Additional coats may be required to achieve specified minimum dry film thickness.

# D. Application Equipment:

- 1. Use airless spray pump in compliance with manufacturer's requirements. Pump shall have anti-freeze device, and fluid filter.
- 2. Use fluid tip size recommended by manufacturer.
- Use clean fluid lines not previously used to apply zinc-rich or water-based coating materials.
- 4. Flush equipment and lines using only products recommended by the coating manufacturer prior to the application of coatings.
- 5. Blow out lines to remove all thinners prior to painting.

#### E. Coating Repairs

1. Touch-up or refinish all chipped, abraded, or otherwise unsatisfactory portions of the work in accordance with the manufacturer's recommendations.

- 2. Re-coating or touch-up or areas that have cured beyond the maximum time recommended by the manufacturer require special preparation.
- 3. Sweep blast area and 3-inches into the surrounding area. Sweep blast under low pressure to uniformly abrade surface and feather edges. Feather edges by sanding or other means acceptable to the Inspector.
- 4. Remove abrasive blast residue from blasted area with special attention to marginal areas of intact coating.
- 5. Clean area with a bond solvent recommended by the manufacturer.
- \* At the end of the recommended cure period the Contractor shall certify to the City that the coatings are fully cured and are ready to be placed into wastewater service.

# 3.07 DISPOSAL OF EXISTING COATINGS AND SPENT ABRASIVE BLAST MEDIA.

- A. Disposal of spent abrasive blast media and removed coating materials shall be in accordance with the disposal plan approved by the. City
- B. Coordinate and pay all costs for all sampling and testing of spent abrasive blast media and removed coating materials in order to document waste class. Minimum sampling and testing requirements are listed previously in this Section.
- C. Before any wastes are removed from the site, CONTRACTOR shall allow the City time for review of laboratory test results, as well as the time required to obtain a Hazardous Waste Generator's U.S. EPA ID Number if required.
- D. City will give CONTRACTOR written notice to dispose of all or a portion of the spent abrasive blast media and/or removed coating materials as hazardous waste if the City determines that such disposal is required.
- E. CONTRACTOR shall be responsible for all costs associated with accumulating, transporting, and disposing of spent abrasive blast media and removed coating materials.

#### 3.08 CLEAN-UP

- Upon completion of the work CONTRACTOR shall make a detailed inspection of all work.
- B. CONTRACTOR shall be solely responsible for all paint over-spray or dust fallout

claims.

- C. Remove all spattering, spits, and blemishes from areas that did not require coating.
- D. Upon completion, of work all staging, tarps, scaffolding, abrasive and containers shall be removed from the site and from the interior of the Clarifier. Paint and thinner containers and excess paint and thinners shall be disposed of in conformance to all current regulations. Paint spots shall be removed, and the entire job site cleaned. All damage to surfaces resulting from the work from this section shall be cleaned, repaired, or refinished to the complete satisfaction of the City and the project ENGINEER at no cost to the City. All clean up shall be completed within 7 calendar days starting at the last day of holiday testing.

**END OF SECTION** 

# SECTION 12 TECHNICAL SPECIFICATIONS – INTERIOR EFFLUENT BOX LINING REHABILITATION

See markups on record drawings (Sheets PF-S01 and PF-S02) for location and extent of concrete rehabilitation work.

# PART 1 GENERAL

#### 1.01 SCOPE OF WORK

- 1. Provide all labor, materials, containment, equipment, and incidentals required to clean the existing concrete and apply a high-performance lining system to the interior of the wet well. Apply a concrete surfacer and 150.0 mils of 100% elastomeric polyurethane system. Repair cracks as per manufacturer's recommendations. The Contractor will resurface to meet ICRI/CPS-6 and supply a pinhole free lining system. The existing concrete is deteriorated due to exposure of hydrogen sulfide fumes.
- 2. Apply new coating system to the effluent box interior including, the walls down 5', and all piping. Keyways required at all permutations. The lining system will terminate on the topside covers 3".
- 3. Dispose of all wastes from wet abrasive blasting, and any other wastes generated during the Work. Sample and test wastes as required by regulatory agencies, and as necessary for classification of wastes prior to disposal. This work includes all costs for waste sampling, testing, accumulation, transport, and disposal, including the cost for wastes classified as hazardous and non-hazardous. The Contractor is solely responsible for all testing and disposal cost.
- 4. A two-year anniversary inspection will be conducted by the City, for which the Contractor shall furnish floor protection, lighting, and scaffolding. Contractor shall also be present at the inspection. The City shall wash out the wet well for inspection. The warranty period shall be two years from the date of acceptance.

# 1.02 **GOVERNING STANDARDS**

The following standards shall govern the work unless specified otherwise in these specifications. The latest version of each standard shall be used.

- A. SSPC Vol. 1, Steel Structures Painting Manual, Volume 1, Good Painting Practice.
- B. SSPC Vol. 2, Steel Structures Painting Manual, Volume 2, Systems and Specifications.

1.	SSPC-SP5-63	White Metal Blast Cleaning
	SSPC-Guide12	Illumination of Industrial Painting Projects
2.	SSPC-SP-7	Brush off Blast
3.	SSPC-SPCOM	Abrasives
4.	SSPC-SP-13	Surface Preparation of Concrete
5.	SSPC-PA-9	Measurement of Dry Film Thickness on Cementitious Substrates
6.	SSPC-AB1	Mineral and Slag Abrasives
7.	SSPC-PA1	Shop, Field and Maintenance Painting
8.	SSPC-PA2	Calibration of Dry Paint Thickness with Magnetic Gages
9.	SSPC-PA	Guide 3 Guide to Safety in Paint Application
10.	SSPC/PA-14	Application of Polyurethanes
11.	ASTM D-4263	Test method for Indicating Moisture in Concrete
12.	ASTM D-2583	Hardness Testing
13.	ASTN D 4787	Holiday Testing on Concrete
14.	ASTM D- 7234	Pull off Adhesion Strength of Coatings on Concrete
15.	ASTM D-6123	Dry Film Thickness using Ultra Sonic Gauges
16.	NACE SPO-188	Holiday Testing
17.	ICRI-310.2	Surface Preparation of Concrete

C. All applicable State and Federal OSHA and safety standards including Respirable Crystalline Silica in Construction Standard, 29 CFR 1926.1153.

# 1.03 **SUBMITTALS**

- A. All submittals shall be prepared and submitted in accordance with the contract documents.
- B. Provide a separate submittal for each material to be used in the work. At a minimum provide submittals for:
  - 1. Abrasive material
  - 2. Paint system
  - 3. Minimum and Maximum re-coat times
  - 4. Dehumidification Equipment (line Item)
  - 5. Waste Disposal
  - 6. Storage of Paint Materials
- C. Submittals should include technical data documenting that the material to be provided complies with these specifications. Submittals will not be accepted until all requirements of this specification have been confirmed.

- D. Interior coating system submittal shall include the following data:
  - 1. Weight in pounds/gallon ASTM D-2196
  - 2. Percent solids by volume ASTM D-2369
  - 3. Percent solids by weight ASTM D-2369
  - 4. Air cure dry time to re-coat ASTM D-1640
  - 5. Adhesion to steel substrate ASTM D-4541
  - 6. Minimum adhesion value of full system on concrete ASTM D-7234-50 mm dollies- Type V Adhesion tester. Minimum adhesion to concrete 250 PSI.
  - 7. Minimum hardness after eight hours of application.
  - 8. Solvent Test ASTM D 5402 must pass after 16 hours of application.
  - 9. Manufacturer's batch numbers and dates of manufacture for materials to be furnished as part of this project.
- E. Provide manufacturer's recommended handling and installation instructions for the proposed paint system including:
  - 1. Storage including maximum and minimum storage temperatures.
  - 2. Surface preparation
  - 3. Fugitive dust containment
  - 4. Coating repair
  - 5. Application equipment
  - 6. Mixing and application of coating system including a table of minimum and maximum time to re-coat as a function of temperature
  - 7. Curing including curing time required before holiday testing, and curing time required before immersion as function of temperature and coating thickness. Minimum and maximum re-coat times.
  - 8. Ventilation and fugitive dust and overspray containment

- 9. Confined space program
- 10. Acceptable temperatures at the time of application

# F. Equipment

- 1. Submit details of vacuum system for removing dust and abrasive from abrasive blast cleaned surfaces.
- 2. Air Compressor-submit manufacturer's latest written operation instructions including recommendations for air filter maintenance and change interval.

# G. Reports

- 1. Submit actual weight of blast cleaning abrasive used for field abrasive blast cleaning. Submit immediately after blasting is completed.
- 2. Submit quantity of coating material used for each coat. Submit immediately after completion of each coat.
- 3. Submit the name of laboratories proposed to be used to test wastes materials.
- 4. Before removing any waste materials from the job site, Contractor shall submit laboratory test results for representative waste samples as required by the owner of the disposal facility and acceptance of the waste material.
- 5. Submit receipts from disposal site for all wastes. Receipts shall identify disposed material and source, show quantity of disposed material in tons or cubic yards, and show method used for final disposition as buried, incinerated, and chemically treated and /or other means.

#### H. <u>Disposal Plan</u>

- Submit a materials disposal plan that complies with all applicable requirements of the Code of Federal Regulations 40 CFR, Part 261.24 and all applicable regulations of all Local, State and Federal agencies having jurisdiction over the disposal of spent abrasive blast media, removed coating materials, and other waste, whether hazardous or non-hazardous.
- Submit name and Environmental Laboratory Accreditation Program Certificate number of laboratory that will sample, and test spent abrasive blast media and removed coating materials. Include statement of laboratory's certified testing areas and analyses that laboratory is qualified to perform.
- 3. Submit permission to dispose of material from disposal site owner. Include name, address, and telephone number of disposal site and of owner.

4. The Disposal Plan shall be acceptable to the City prior to disposal of any wastes.

# 1.04 **QUALITY ASSURANCE**

# A. Qualifications

- 1. The Contractor shall be a licensed Painting Contractor (C-33) in the State of California. The Contractor shall be regularly engaged in the application of similar coatings on concrete for at least five years immediately prior to this work: A minimum of two 100% solids plural component polyurethane per year for the past five years using 100% solids elastomeric polyurethane with the use of plural component application equipment. The Contractor shall be licensed Sherwin Williams applicator. The Contractor shall provide five similar projects with owner's name and phone numbers prior to the award of contract.
- 2. Foreman and workers on-site shall be experienced and knowledgeable in preparation for and application of high performance 100% solids industrial coatings. Foreman shall possess a current certification in the application of the coating system.
- 3. The minimum adhesion requirement of the coating system utilizing an Elcometer #106 adhesion tester as per ASTM D-7243, type V shall be 250 pounds per square inch on concrete.
- 4. Workmanship shall conform to standards and recommendations of SSPC Vol. 1, especially Chapters 5.1 and 6, SSPC/Sp-13, including ASTM D- 6237.
- 5. The Contractor shall provide approved sanitary facilities at the site for all Contractor personnel, as no existing facilities will be available to the Contractor. Facilities shall be maintained during the project to complete standards established by the City and shall be removed prior to Contractor's departure from the site at completion of the project.
- 6. Testing: The City may use any method deemed necessary to test the work. A specialized coatings inspection firm shall perform inspections for the City. The City's Engineer will monitor the quality of work under this Section. The Contractor shall furnish all inspection equipment, but at the Cities option they may use their own inspection equipment at any time.
- 7. Materials Handling and Use: Coating materials shall be labeled and used in accordance with SSPC-PA 1, Paragraphs 5.1.1 thru 5.1.5, except all coating system materials without a stated shelf life shall be delivered and used within six months of the date of manufacture; and certification, from any source, that the coating system materials are still suitable for use beyond the stated shelf life or beyond the six-month period specified above will not be accepted.
- 8. Contractor shall perform the necessary quality assurance in accordance with the approved

plan.

#### B. Wastes

- All testing of spent abrasive blast media and removed coating materials to classify these
  wastes as hazardous or non-hazardous shall be performed by a laboratory that complies with
  and is certified under the Environmental Laboratory Accreditation Program (ELAP) of the
  California State Health Division.
- 2. The Laboratory shall perform all analyses needed for comparison to TCLP limits and to all other applicable regulatory limits. Laboratory shall retain samples at least ninety (90) calendar days after all analyses are complete.
- 3. Contractor shall collect as many representative samples as required by the owner of the disposal facility, but not less than 4 total.
- 4. Each sample shall have an identifying sample number assigned by the Contractor when the sample is taken. Sample number shall be included on the sampling chain of custody and in all reports, correspondence, and other documentation related to the sample. Each sample shall have a sampling chain of custody. Chain of custody shall show the name and organization of each person having custody of the sample, and shall also show the sample number, job name and location, time of day and date sample was taken, material sampled, and tests to be performed.
- 5. The City will witness sampling and may take samples for additional analyses if required. Notify the Owner at least 24 hours prior to sampling.

# C. <u>Manufacturer's Representative</u>

1. A qualified technical representative of the coating system manufacturer shall be made available at the jobsite at the beginning of the project to evaluate the Contractor's test section and periodically throughout as required by the City to resolve problems related to the coating system or the application of the system. The manufacturer shall approve the surface preparation prior to application of the lining system.

#### 1.05 <u>DELIVERY</u>, <u>STORAGE</u>, <u>AND HANDLING</u>

#### A. <u>Delivery</u>

- 1. Deliver abrasive grit in original moisture-proof bags or airtight bulk containers with labeling that the abrasive material meets Bay Air Resources District.
- 2. Deliver coating system materials in original, unopened containers with seals unbroken and labels intact. Labels shall identify the following:

- g) Name or title of material
- h) Manufacturer's stock number and color
- i) Manufacturer's name, batch number, specification number
- j) Application instructions
- k) Color name and number
- l) Date of manufacture and expiration date

# B. Storage

- 1. Store materials in a single, approved location.
- 2. All containers shall be handled and stored in such a manner as to prevent damage or loss of labels or containers. All painting materials shall be stored in an enclosed, dry, well-ventilated place, protected from sparks, flame, direct rays of the sun, or from excessive heat. The Contractor shall be solely responsible for the protection of the materials stored at the job site. Maintain temperature inside the structure within the temperature range recommended by the manufacturer.
- 3. The Contractor shall comply with the requirements of all pertinent codes and local fire regulations. Proper containers shall be provided by the Contractor and used for painting wastes. No plumbing fixtures shall be used for this purpose. Empty coating cans shall be neatly stacked and removed from the job site as required by applicable codes.
- All operating equipment shall be placed in secondary containment at the beginning of the project.
- 5. Keep storage location clean, neat, and free of fire hazards.

# C. Handling

- 1. Do not spill thinners, solvents, paint products or other materials that contain toxic substances.
- 2. Remove discarded thinners, solvents, and paint products from the jobsite daily. Used rags shall be removed from the job site daily, and every precaution taken against spontaneous combustion.

#### 1.06 **SAFETY**

- 1. Contractor shall comply with all Federal, State, and Local applicable safety regulations and requirements including Respirable Crystalline Silica in Construction Standard, 29 CFR 1926.1153.
- 2. <u>General.</u> Ventilation, electrical grounding, and care in handling paints, solvents and equipment are important safety precautions during painting projects. Contractor shall conform with safety

requirements set forth by regulatory agencies applicable to the construction industry and manufacturer's printed instructions and appropriate technical bulletins and manuals. The Contractor shall provide and require use of personal protective life-saving equipment for persons working in or about the project site. All compressors, bag houses, fuel storage tanks and generators shall be placed in secondary containment.

- 3. <u>Confined Space Entry and Permits.</u> The Contractor shall provide trained Confined space entry permits and monitoring as required by all current Local, State, and Federal OSHA regulations.
- 4. Access Facilities. All ladders, scaffolding, and rigging shall be designed for their intended uses.
- 5. <u>Ventilation</u>. Where ventilation is used to control hazardous exposure, all equipment shall be explosion-proof, of industrial design, and shall be approved by the Engineer. Household-type venting equipment will not be acceptable.
- 6. <u>Head and Face Protection and Respiratory Devices.</u> Equipment shall include protective helmets, which shall be worn by all persons while in the vicinity of the work. During cleaning operations, nozzle men shall wear U.S. Bureau of Mines approved air-supplied helmets; other persons who are exposed to blasting dust shall wear approved filter-type respirators and safety goggles. When paints are applied in confined areas, all persons exposed to toxic vapors shall wear approved air-supplied masks. Barrier creams shall be used on any exposed areas of skin. The Contractor shall comply with Respirable Crystalline Silica in Construction Standard, 29 CFR 1926.1153.
- 7. <u>Grounding.</u> Spray and air hoses shall be grounded to prevent accumulation of charges of static electric. All pressure hoses shall be equipped with cable chokers.
- 8. <u>Illumination</u>. Spark-proof artificial lighting shall be provided for all work in contained spaces. Light bulbs shall be guarded to prevent breakage. Lighting fixtures and flexible cords shall comply with the requirements of NFPA 70 "National Electric Code" for the atmosphere in which they will be used. Whenever required by Engineer, the Contractor shall provide additional illumination and necessary supports to cover all areas to be inspected. The level of illumination for inspection purposes shall be determined by the Engineer.
- 9. <u>Toxic and Explosiveness</u>. The solvents used with specified protective coatings are explosive at low concentrations and are highly toxic. Because of toxic, the maximum allowable concentration of vapor shall be kept below the maximum safe concentration for an eight-hour exposure, plus Lower Explosive Limit (LEL) must be strictly adhered to. If coatings or paints contain lead or other hazardous materials, all regulations related to safety of personnel and handling of such materials shall be strictly adhered to.
- 10. <u>Protective Clothing.</u> Paint materials may be irritating to the skin and eyes. When handling and mixing paints, workmen shall wear gloves and eye shields.

- 11. <u>Fire.</u> During mixing and application of all materials, all flames, welding, and smoking shall be prohibited in the vicinity. Appropriate type fire abatement devices shall be provided by CONTRACTOR and be readily available at the job site during all operations.
- 12. <u>Sound Levels.</u> Whenever the occupational noise exposure exceeds the maximum allowable sound levels, the CONTRACTOR shall provide and require the use of approved ear protective devices.

# 1.07 EXISTING INTERIOR COATINGS

<u>A.</u> The existing lining system is unkown. It is the Contractor's responsibility to estimate the quantity and classification of the wastes resulting from the Work, and to accumulate, transport, and dispose of all wastes at no additional cost to the City.

# 1.08 **WARRANTY**

A. Two-year un-conditional warranty on surface preparation and coating system

#### 1.09 **WARRANTY INSPECTION**

- 1. A first anniversary warranty inspection will be conducted by the City, approximately one year following initial acceptance of the work, which starts the two-year warranty. At the end of the two-year warranty period the City will conduct a re-inspection and issue a final acceptance of the project. The City will establish the date of the inspection and will notify the Contractor at least thirty (30) calendar days in advance of the inspection. The effluent box will be drained by the City for inspection.
- 2. Contractor shall furnish at his own expense ventilation, scaffolding, and lighting equipment as necessary for warranty inspections, and shall be present for such inspections.
- 3. Inspection Report: Owner will prepare and deliver to the Contractor a report of the warranty inspection. The inspection report will set forth the number and types of failures observed, the percentage of surface area where failures have occurred, and the names of the persons making the inspections. Photographs or reports of the coating imperfections or failures shall be considered acceptable evidence of failure.
- 4. Failure: Any location where coating has delaminated, peeled, blistered, detached, or cracked, and any location where rusting is evident will be considered a failure of the coating system.
- 5. Remedial Work: Repair all failures by removing the deteriorated coating, cleaning the surface, and re-coating with the same system in accordance with this Section and to the

satisfaction of the Engineer at the sole expense of the Contractor. With the approval of the Owner, Surface preparation of small failures (areas less than 1 sq ft.) may be made by cleaning to bare metal in accordance with appropriate SSPC-SP 1, 2, or 11 standards. If the area of failure exceeds 25 percent of a specific painted surface, the entire applied system may be required to be removed and reapplied in accordance with the original specification.

- 6. Schedule of Remedial Work: The City will establish a starting date and reasonable time of completion for the remedial work. The starting will be no more than thirty (30) calendar days after the submittal of the inspection report to the Contractor. Should the Contractor fail to start the remedial work within ten (calendar days) after the starting date established by the City, the City may at its option perform the remedial work, and the Contractor shall pay to the City the actual cost of such work, plus 20 percent to cover added engineering and administrative cost.
- 7. Warranty inspections of the remedial work shall be at the sole expense of the Contractor.

#### PART 2 PRODUCTS

#### 2.01 INTERIOR COATING SYSTEM MATERIALS

- 1. The new interior coating system shall be resurfaces using A.W. Cook Silatec Microsilica Mortar with a broom finish equal to (ICRI/CSP-6). Application of 100% solids elastomeric urethane recommended for corrosion protection of concrete structures: Sherwin Williams Polycote 115 or Equal. Volatile organic compounds concentration shall be less than 250 grams per liter.
- 2. The coating shall be "certified non-lead" (less than 0.06 percent lead by weight in the dried film) as defined in part 1303 of the consumer products safety act.

#### 2.02 **ABRASIVE**

- A. Abrasive grit for steel, piping, and concrete wet blast cleaning shall conform to the following:
  - 1. Surface profile on steel 3.5 to 4.5 minimum anchor profile
  - 2. Surface profile on concrete equal to 40 to 60 grit sandpaper (ICRI/CSP-6)
  - Concrete (Option in lieu of abrasive blasting) SSPC/Sp #12 LP-WC-WJ-1 Waterblasting 5,000 P.S.I.
  - 4. All abrasives shall be new, clean, and free of contaminants, and containing no hazardous materials. ARB approved.

#### **PART 3 EXECUTIONS**

#### 3.01 **QUALITY CONTROL**

- A. Provide adequate lighting, without shadows, during all phases of work to ensure that work is performed as specified. Illuminate entire area of work.
- B. Provide ground supported scaffolding and lighting, provide manpower to move as determined by the Inspector, to facilitate visual and instrument inspection by the Inspector of each phase of the work and of the completed work. Place as directed to minimize glare and shadows. If Inspector cannot see/inspect work due to poor lighting the area will be rejected until proper lighting is furnished.
- C. The CONTRACTOR shall provide, at own expense, all necessary power required for his operations under the Contract.
- D. The Contractor shall perform pH testing per ASTM D 4262. This pH measurement shall not exceed 8.0. If not obtained, re-prepare until acceptable pH measurements are obtained.
- E. Prior to the application of interior coatings, the Contractor shall perform moisture testing as per ASTM D-4263.
- F. Provide personnel for assistance to the City or City's representative as required during all inspections.
- G. Contractor shall inspect surfaces first. Inspector will verify surfaces after blast cleaning to verify that all deposits of contaminants have been removed. Contractor shall blow down and vacuum all surfaces prior to inspection at the direction of the Engineer.
- H. The Contractor's equipment shall be designed for application of materials specified and shall be maintained in proper working condition. Contractor's equipment shall be subject to approval of the Engineer. Effective oil and water separators and dryers shall be used in all main compressorair lines and shall be placed as close as practicable to the equipment. Prior to using compressed air, quality of air downstream of the separators shall be tested at suitable outlets by blowing the air on clean white blotter for 2 minutes to check for any contamination, oil, or moisture (ASTM D-4285). Verify at a minimum of two times daily that air supply is free of oil and moisture contamination.
- Measure air temperature, humidity, relative humidity, and metal surface temperature, and
  determine dew point and relative humidity prior to abrasive blasting or painting each day.
   Repeat measurements and determination of dew point as often as the Inspector deems necessary
  but not less often than every four hours.
- J. Maintain a written record of measurements and dew points, and time that measurements were

- taken. Make record available to Inspector immediately on request.
- K. Inspector will evaluate surface preparation using field abrasive blasting standards, and Testex tape. Evaluation will include inspection of blasted surfaces for dust and abrasive residue, using clear adhesive coated tape. Evaluation will be made immediately prior to coating application. CONTRACTOR will furnish 1 roll of Testex tape 1.5 to 4.5 mils X-course prior to the start of abrasive blasting.
- L. Verify cleanliness of all spray application equipment prior to, or no later than, time of mixing coating material.
- M. Measure wet film thickness during coating application of coating to ensure adequate coating thickness. Take at least one measurement every 100 square feet.
- N. Measure dry film thickness after each coat using a non-destructive magnetic dry film thickness gauges. The Contractor shall provide a Positech 200 concrete thickness gauge.
- O. Inspector will also measure coating thickness, at random locations, after each coat. If Inspector questions the film thickness the Contractor shall cut 10 core samples and repair at the Contractor's expense.
- P. Because of the presence of moisture and possible contaminants in the atmosphere, care shall be taken to ensure that previously painted surfaces are protected or re-cleaned prior to application of subsequent coat(s). Methods of protection and re-cleaning shall be approved by the Engineer. Inspector will evaluate cleanliness of coated surface immediately prior to application of a subsequent coat.
- Q. The Contractor shall perform moisture test (One test per 500sq/ft) as per ASTM D-4263 twenty hours prior to each application.
- R. Contractor shall test all coated surfaces for pinholes and holidays after application of the final coat in accordance with the following:
  - 1. Holiday testing shall be preformed as per NACE SPO-188 and ASTM D-4787 to all coated surfaces.
  - 2. The Contractor shall provide Durometer for hardness testing eight hours after each application and prior to holiday testing.
  - 3. Perform test in presence of Inspector with location and frequency basis determined by the City or the City's representative. The City reserves the right to perform holiday testing itself at any time during the testing and rendering decisions based solely upon their tests.
  - 4. Perform test after coating has cured as recommended by the manufacturer.

- 5. Use an appropriate detector, such as an Elcometer 236 or as approved by the City's representative. Contractor shall provide one 19.7" wire brush wand for unit.
- 6. Re-test after coating repairs until clear.

# 3.02 <u>LIMITING ENVIRONMENTAL CONDITIONS</u>

- A. Do not abrasive blast when air temperature and/or steel temperature are less than 5 degrees F above dew point.
- B. Apply coatings only when conditions are within the limits prescribed by the manufacturer but, do not apply coatings when:
- C. Temperature is less than 60 degrees F. or when expected to drop below 60 degrees eight hours after application.
- D. Relative humidity is greater than 70 percent.
- E. When there is moisture or dust is present in the air or on interior wet well substrate.

# 3.03 **DEHUMIDIFICATION (Line Item)**

#### 3.04 **PREPARATION**

- 1. Prepare surfaces to be coated in accordance with the manufacturer's instructions but not less than specified herein.
- 2. Cleaning. Remove all visible oil, grease, dirt, welding residue, and other contaminants from areas to be coated. Inspection shall use a black light to locate oil and grease. All slag, concrete fins, laitance and weld metal accumulation and splatters shall be removed by chipping or grinding as required by the Engineer. Existing concrete shall be steam cleaned at one-hundred-and-eighty-degree water with a biodegradable degreaser prior to any surface preparation operations.
- 3. Blast Cleaning (Steel). Remove existing coating, under film corrosion, corrosion, and other corrosion products from all steel areas to be coated. Prepare all surfaces to be coated by abrasive blast cleaning to SSPC-SP #5 with a surface profile of 3.5 to 4.5 mils minimum.
- 4. Blast Cleaning (Concrete). Remove existing coating, soft concrete, laitance, corrosion, and other corrosion products from all areas to be coated. Prepare all surfaces to be coated by (SSPC/Sp-13) wet abrasive blast cleaning or equal to an anchor profile of 40 to 60 grit sandpaper. The Contractor shall provide a surface free of bug holes and voids. Keyways shall be saw cut as per manufactures written application data sheet, but at a minimum ½" in with and ½" deep.

Keyway's will be cut around all protrusions and at all termination points of the lining system. All linings shall overlap and transition onto any pipe or brackets a minimum pf six inches unless specified to coat the entire piece.

- 5. The area not to receive coating shall be masked off prior to the application of coatings.
- 6. Complete wet abrasive blast cleaning of metal prior to application of coating system.
- 7. Do not reuse abrasive blast media unless the media is specifically designed for reuse.
- 8. Contractor will leave 6" of exposed blast on the leading edges of coating.
- 9. Install an oil moisture separator in the air line between compressor and blast pot.
- 10. Install an air cooler in the airline between the compressor and the oil and moisture separator.
- 11. Use venturi blast nozzle.
- 12. All surfaces to be blast cleaned shall be electrically grounded during blast cleaning.
- 13. Provide exhaust a HEPA pulse type air dust collector to prevent discharge of dust to outside air.
- 14. Mask-off and protect all exposed machined metal surfaces, plastic, and other surfaces not to be painted or that may be damaged by abrasive blasting.
- 15. Remove all dust and abrasive from freshly blasted surfaces. Use approved vacuum system for all final cleaning prior to coating.
- 16. Dispose of abrasive blast media and other waste materials off-site and in accordance with approved material disposal plan.
- 17. Contractor shall have a minimum of 95 P.S.I minimum at the end of the blast nozzle.
- 18. Discard directly from Wet well to a portable container and remove container from site. Do not place media on ground or other intermediate location.

#### 3.05 **CONCRETE REPAIRS**

Blank

#### 3.06 **APPLICATION**

#### A. General

- 1. Mix and apply all coatings in accordance with the manufacturer's recommendations and instructions, the applicable requirements of SSPC good painting practices, and as specified herein.
- 2. Obtain Inspector's evaluation and approval of steel surface preparation immediately prior to application of first coat. No thinning shall be allowed at any time.
- 3. Contractor will coat a test section on the first day of coating as per the coating manufacturer's specifications, and the manufacturer's representative will evaluate. Obtain City approval before commencing coating operations.
- 4. A ratio check shall be performed prior to the start of each coating application.
- 5. A spray sample shall be applied to a plastic sheet prior to spraying on intended surfaces. A sample will be sprayed onto a 3' X 3' plastic sheet prior to each application. The Contractor shall put the time and date of application including the batch numbers. The samples from each application will be given to the inspector and retained until the completion of the project.
- 6. Contractor shall provide hardness tester and testing coating within 24 hours of each application.
- 7. All gauges on plural component pumps shall be in working order prior to the start of coating operations, if not in working order or gauges cannot be zeroed coating operations will not start until gauges are repaired or replaced.
- 8. Obtain Inspector's evaluation and approval of cleanliness of previous coat immediately prior to application of a subsequent coat.
- 9. Completely finishes coat all surfaces above floor prior to coating floor.
- 10. Care shall be exercised to prevent coating or paint from being spattered onto surfaces, which are not to be coated or painted. Surfaces from which such material cannot be removed satisfactorily shall be refinished as required to produce a finish satisfactory to the Engineer.
- 11. Apply coatings by airless spray except:
  - a. Touch up areas of less than 2 square inches may be brushed.
- 12. Apply coatings at a temperature recommended by manufacturer. Prior to mixing, coating materials shall be not less than 95 degrees F.
- 13. Scaffolding or other support system shall be free of abrasive blast media, dirt, and other foreign matter prior to application of coatings.
- 14. After each coat and immediately prior to application of a subsequent coat, clean surface as

required to remove dirt, dust, over-spray, and other contaminants that may affect adhesion of the subsequent coat.

- 15. Finish coat shall be uniform in color and gloss over the entire surface. Finish coat shall be smooth to touch with no sags, runs, over-spray, cracks, pinholes or other surface defects.
- 16. Coating should not be applied closer than 6 inches from an unprepared surface.
- 17. All attachments, accessories, and appurtenances shall be prepared and coated/painted/finished in the same manner as specified for adjoining tank sections.

#### B. Color

- 1. First coat (concrete): Off White
- C. <u>Dry Film Thickness</u> (Concrete Shell and Floor DFT)
  - 1. Surfacer / A.W. Cook Silatec Microsilica Mortar. ICRI/CSP-6 broom finish
  - 2. Second Coat/ Sherwin Williams Polycote 115. 125.0 mils minimum
  - 3. Interior miscellaneous steel Steel: 30.0 mils minimum 40.0 mils maximum

# D. <u>Application Equipment</u>:

- 1. Use only plural component airless spray pump in compliance with manufacturer's requirements. Pump shall have anti-freeze device, and fluid filter.
- 2. Use fluid tip size recommended by manufacturer.
- 3. Flush equipment and lines using only products recommended by the coating manufacturer prior to the application of coatings.
- 4. Blow out lines to remove all thinners prior to coating operations.

#### E. <u>Coating Repairs</u>

- 1. Touch-up or refinish all chipped, abraded, or otherwise unsatisfactory portions of the work in accordance with the manufacturer's recommendations.
- 2. Re-coating or touch-up or areas that have cured beyond the maximum time recommended by the manufacturer require special preparation, including amine testing.
  - a. Sweep blast area and 3-inches into the surrounding area. Sweep blast under low pressure to uniformly abrade surface and feather edges. Feather edges by sanding or other means

acceptable to the Inspector.

- b. Remove abrasive blast residue from blasted area with special attention to marginal areas of intact coating.
- c. Clean area with a bond solvent recommends by the manufacturer.
- d. Coating shall be applied free of pinholes, bubbles, sags, runs, dry spray, drips, fisheyes, and be even in color and finish.

#### 3.07 <u>INTERIOR CURING AND CLEANING</u>

- 1. Cure all coatings as recommended by the manufacturer after coating application and repairs are completed. The Contractor shall provide a written letter that the interior coating is fully cured as per the coating manufacturer's written directions and is ready to be placed into service prior to filling operations.
- 2. Clean dust and abrasive-blasting residue from the interior, exterior and surrounding areas.

#### 3.08 <u>DISPOSAL OF EXISTING COATINGS AND SPENT ABRASIVE BLAST MEDIA.</u>

- 1. Disposal of spent abrasive blast media and removed coating materials shall be in accordance with the disposal plan approved by the City.
- 2. Coordinate and pay all costs for all sampling and testing of spent abrasive blast media and removed coating materials in order to document waste class. Minimum sampling and testing requirements are listed previously in this Section.
- 3. Before any wastes are removed from the site, Contractor shall allow the City time for review of laboratory test results, as well as the time required to obtain a Hazardous Waste Generator's U.S. EPA ID Number if required.
- 4. The City will give Contractor written notice to dispose of all or a portion of the spent abrasive blast media and/or removed coating materials as hazardous waste if the City determines that such disposal is required.
- 5. Contractor shall be responsible for all costs associated with accumulating, transporting, and disposing of spent abrasive blast media and removed coating materials.

#### 3.09 <u>CLEAN-UP</u>

1. Upon completion of the work Contractor shall make a detailed inspection of all work.

- 2. Contractor shall be solely responsible for all paint over-spray or dust fallout claims.
- 3. Remove all spattering, spits, and blemishes from areas that did not require coating.
- 4. Upon completion, of work all staging, tarps, scaffolding, and containers shall be removed from the site. Paint and thinner containers and excess paint and thinners shall be disposed of in conformance to all current regulations. Paint spots shall be removed, and the entire job site cleaned. All damage to surfaces resulting from the work from this section shall be cleaned, repaired, or refinished to the complete satisfaction of the City and the project Engineer at no cost to the City. All clean up shall be completed within 7 calendar days starting at the last day of holiday testing of the Wet well.

**END OF SECTION**