

PROJECT MANUAL FOR:

**64th Avenue Neighborhood Accessway & Roadway
Improvements**



PROJECT NO. PW-14-041

CITY OF HOLLYWOOD
DEPARTMENT OF PUBLIC WORKS
ENGINEERING & ARCHITECTURAL SERVICES DIVISION

2600 HOLLYWOOD BOULEVARD
HOLLYWOOD, FL 33020

BID PACKAGE

FOR

PROJECT NO. PW-14-041

**64th Avenue Neighborhood Accessway & Roadway
Improvements**

SUBMITTED BY: _____

SEPTEMBER 2014

BID PACKAGE CONTENTS AND REQUIREMENTS

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SUBMIT THIS COMPLETE PACKAGE AND ONE COPY WITH YOUR BID

CITY OF HOLLYWOOD

FLORIDA

CONTRACT DOCUMENTS

**64th Avenue Neighborhood Accessway & Roadway
Improvements**

FOR

CITY OF HOLLYWOOD

**DEPARTMENT OF PUBLIC WORKS
ENGINEERING & ARCHITECTURAL SERVICES DIVISION**

CITY PROJECT NO.: PW-14-041

SEPTEMBER 2014

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**CITY OF HOLLYWOOD
DEPARTMENT OF PUBLIC WORKS
ENGINEERING & ARCHITECTURAL SERVICES DIVISION**

NOTICE TO BIDDERS

PROJECT NAME: 64th Avenue Neighborhood Accessway & Roadway Improvements

PROJECT NUMBER: PW-14-041

NOTICE IS HEREBY GIVEN that the City Commission of the City of Hollywood, Florida, is advertising for sealed bids which shall be **submitted to the City Clerk's Office** (City Hall, 2600 Hollywood Boulevard, Room 221) of the City of Hollywood, Florida, **until Tuesday, October 14, 2014 at 10:00 am**, local time, at which time they will be opened and read publicly in the Department of Public Works, Engineering & Architectural Services Division Conference Room #308 at City Hall, 2600 Hollywood Blvd, Hollywood, Florida 33020. **A pre-bid meeting will be held on Friday, September 26th, 2014, at 10:00 am, local time, at the Department of Public Works, Engineering & Architectural Services Division, Engineering Conference, Room #308 located at 2600 Hollywood Boulevard, Hollywood, Florida 33020. Attendance at this pre-bid meeting is NOT required.**

The Bid Package and any other Contract documents may be obtained from the Department of Public Works, Engineering & Architectural Services Division, Room #308 at City Hall, 2600 Hollywood Blvd, Hollywood, Florida 33020. The first copy to all eligible bidders will be provided at no cost. Additional copies will be furnished upon request for a nominal fee. The bid package can also be downloaded at <http://www.hollywoodfl.org/Bids.aspx>. It is the contractor's responsibility to periodically check the City's website for any changes to the contract during the bidding process.

Each bid must be accompanied by a Bid Security, in an amount no less than ten percent (10%) of the bid amount. Said security shall be in the form of a Certified Check or Cashier's Check on a solvent National or State Bank, or a bid bond executed by the Bidder and a qualified Surety, satisfactory and payable to the City of Hollywood, Florida.

A Cone of Silence is in effect with respect to this bid. The Cone of Silence prohibits certain communications between potential vendors and the City. For further information, please refer to Section 30.15(E) of the City's Code of Ordinances.

The City of Hollywood is strongly committed to ensuring the participation of local Hollywood vendors in the procurement of goods and services. Each bidder must carefully review Exhibit A within the attached Bid Package. For additional information about the City's Local Preference Ordinance, visit <http://www.hollywoodfl.org/index.aspx?nid=216> or contact The Procurement Department at 954-921-3345.

It will be the sole responsibility of the Bidder to deliver personally or by mail, his/her proposal to the City Clerk's Office at City Hall on or before the closing hour and date for the receipt of bids as noted above.

The City Commission reserves the right to reject any or all bids, to waive informalities and to accept or reject all or any part of any bid, as they may deem to be in the best interest of the City of Hollywood, Florida.

Dated this 15th Day of September, 2014

CITY OF HOLLYWOOD, FLORIDA

Jonathan Vogt, P.E.,
Deputy Director/City Engineer

SECTION 00100

INSTRUCTIONS TO BIDDERS

1. PREPARATION OF BIDS:

Bids must be submitted on the separate and enclosed **BIDDING PACKAGE** forms, which shall be completed **by typewriter** or legibly handwritten in ink. The Total Bid price must be stated in words and numerals; in case of a conflict, words will take precedence. Where unit prices and extended totals are required, unit prices take precedence. Likewise, discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum.

If the Bid is made by an individual, he must sign his name therein and state his address. If the Bid is made by a firm or partnership, its name and address must be stated, as well as the name and address of each member of the firm or partnership. Bids by corporations must be signed by an authorized corporate officer (accompanied by evidence of authority to sign) and the corporate seal must be affixed and attested by the Secretary or an Assistant Secretary of the corporation. The corporate address and state of incorporation shall be shown below the signature. When the state of incorporation is other than Florida, proof of registry with Florida must be attached.

2. RECEIPT AND OPENING OF BIDS:

The separate **BIDDING PACKAGE** consisting of the PROPOSAL, PROPOSAL BID FORM, APPROVED BID BOND, TRENCH SAFETY FORM, INFORMATION REQUIRED FROM BIDDERS AND LIST OF SUBCONTRACTORS AND/OR MATERIAL SUPPLIERS shall be completed, signed and sealed as required and must be delivered in a sealed, opaque envelope, addressed to the City Clerk of Hollywood, Florida, by the time called for in the Notice to Bidders and shall be properly identified on the face thereof.

Proposals will be publicly opened and immediately read aloud at the time and place designated in the Notice to Bidders. No proposal will be considered which is not based upon these Drawings and Specifications, or which contains any letter or written memorandum qualifying the same, or which is not properly made out and signed in writing by the Bidder.

3. PRE-BID CONFERENCE:

A Pre-bid Conference will be held at the City Hall Building, Room 308, Engineering Conference Room, 2600 Hollywood Blvd, Hollywood, Florida, 33020 on Friday, September 26, 2014 at 10:00 AM. Contractors with questions or concerns are encouraged to attend.

4. CONTRACT DOCUMENTS:

The Contract Documents provide the description of the work to be done under this Contract and estimated quantities of each item of work for which Bids are invited, the time in which the work must be completed, the amount of the Bid Guaranty, if any, and the date, time and place of the receipt and opening of the Bids. The location of the work is within the City of Hollywood and will be provided in work orders issued throughout the contract duration.

5. EXAMINATION OF CONTRACT DOCUMENTS AND SITE:

The Bidder is required to carefully examine the Contract Documents for the work contemplated. It will be assumed that the Bidder has investigated and is fully informed as to the requirements of the Contract Documents, laws, ordinances, codes and any other factors which may affect the performance of the work. Failure to be so informed will not relieve a successful Bidder of his obligation to furnish all material, equipment and labor necessary to carry out the provision of the Contract Documents and to complete the contemplated work for the consideration set forth in his Bid.

6. DIMENSIONS, QUANTITIES AND SUBSURFACE INFORMATION:

Dimensions, quantities and subsurface information supplied by the City are in no way warranted to indicate true amounts or conditions. Bidders/Contractors shall neither plead misunderstanding or deception, nor make claims against the City if the actual amounts, conditions or dimensions do not conform to those stated. Any "Outside" reports made available by the Engineer are neither guaranteed as to accuracy or completeness, nor a part of the Contract Documents.

7. ADDENDA - CHANGES WHILE BIDDING:

During the Bidding period, Bidders may be furnished addenda or bulletins for additions or alterations to the Plans or Specifications which shall be included in the work covered by the Proposal.

Any prospective Bidder in doubt as to the meaning of any part of the Drawings, Specifications or other Contract Documents may submit a written request to the Engineer for an interpretation. The Bidder submitting the request will be responsible for its prompt delivery. Any interpretation of the documents will be made by an addendum and a copy of such addendum may be mailed, e-mailed or delivered to each prospective Bidder who has received a set of documents. The City will not be responsible for any other explanations or interpretations of the proposed documents.

8. BID GUARANTY:

A Bid Guaranty in the form of a Cashier's Check, Certified Check or Bid Bond executed by the Bidder and a qualified Surety in the amount of **10%** of the Bid is required for this project in accordance with the Notice to Bidders.

9. TRENCH SAFETY FORM:

The Trench Safety Form included in the Bid Documents must be completed and signed. Noncompliance with this requirement may invalidate the bid.

10. QUALIFICATIONS AND DISQUALIFICATIONS OF BIDDERS:

The Contract will be awarded only to a Bidder, who in the opinion of the Engineer, is fully qualified to undertake the work. The City reserves the right before awarding the Contract to require a Bidder to submit such evidence of their qualifications as it may deem necessary and may consider any available evidence of his/her financial status, technical qualifications and other qualifications and abilities. Once the contract is awarded to the bidder the sidewalk work cannot be subcontracted in its entirety to another contractor, and payroll documents will be required as proof that the majority of the work is being completed by staff employed by the bidder. Any one of the following causes, among others, may be considered as sufficient justification to disqualify a Bidder and reject his Bid:

- A. Submission of more than one Bid for the same work by an individual, firm, partnership or corporation under the same or different names.
- B. Evidence of collusion.
- C. Previous participation in collusive Bidding on work for the City of Hollywood, Florida.
- D. Submission of an unbalanced Bid in which the prices Bid for some items are out of proportion to the prices Bid for other items.
- E. Lack of competency. The Engineer may declare any Bidder ineligible, at any time during the process or receiving Bids or awarding the Contract, if developments arise, which in his opinion, adversely affects the Bidder's responsibility. The Bidder will be given an opportunity, by the Engineer, to present additional evidence before final action is taken.
- F. Lack of responsibility as shown by past work judged by the Engineer from the standpoint of workmanship and progress.
- G. Uncompleted work for which the Bidder is committed by Contract, which is in the judgment of the Engineer, might hinder or prevent the prompt completion of work under this Contract.
- H. Being in arrears on any existing Contracts with the City, or any taxes, licenses or other monies due the City; in litigation with the City or having defaulted on a previous contract with the City.

12. LIFE AND WITHDRAWAL OF BID:

All Bids shall remain open for 90 days after the day of the Bid opening, however, the Engineer may, at his sole discretion, release any Bid and return the Bid Guaranty prior to that date. Any Bid may be modified or withdrawn prior to the time scheduled for the opening of Bids.

13. REJECTION OF IRREGULAR BIDS:

Bids will be considered irregular and may be rejected if they show omissions, alterations of form, additions not called for, conditions, limitations, unauthorized alternate Bids or other irregularities of any kind.

14. BIDDING ERRORS:

If after the opening of bids, a Bidder claims an error and requests to be relieved of the Award, or the Engineer believes that an error may have been made then, the Bidder shall present his work sheets and supplier quotations to the Engineer for verification. This information shall be presented on the same day as the bid opening or if the opening is in the afternoon then on the following business day. When the Engineer has suspected an error and requires the documents, Bidder's failure to produce them within the time specified shall make the Bidder non-responsive and thereby eligible for disqualification. Award may then be made to the next lowest responsive, responsible Bidder, or the work may be re-advertised or it may be performed by City forces, as the Commission desires.

15. AWARD OF CONTRACT:

The City Commission reserves the right to reject any or all Bids, or any part of any Bid, to waive any informality in any Bid, or to re-advertise for all or any part of the work contemplated. If Bids are found to be acceptable by the City Commission, written notice of award will be given to the lowest responsive, responsible Bidder.

16. EXECUTION OF CONTRACT:

The Bidder to whom the Contract is awarded shall, within ten days of the date of award, execute and deliver three (3) copies of the following to the Engineer.

- A. The Contract
- B. Performance and Payment Bond
- C. Evidence of required Insurance
- D. Proof of authority to execute the Contract
- E. Proof of authority to execute the Bond on behalf of the Awardee
- F. List of Subcontractors providing materials, equipment or additional staff, estimated Contract Value for each and proof that such subcontractors possess all required Federal, State, County and/or municipality licenses, including but not limited to certified of competency and occupational license

The above documents must be furnished, executed and delivered before the Contract will be executed by the City. The Contract shall not be binding upon the City until it has been executed by the City and a copy of such fully executed Contract is delivered to the Contractor.

17. FAILURE TO EXECUTE CONTRACT, BID GUARANTY FORFEITED:

Should the Bidder to whom the Contract has been awarded refuse or fail to complete the requirements of Article 16 above within ten (10) days after Notice of Award, the additional time in days (including weekends) required to CORRECTLY complete the documents will be deducted, in equal amount, from the Contract Time, or the City may elect to revoke the Award. In the same manner as Article 13, the Bid Guaranty of any Bidder failing to execute the awarded Contract shall be retained by the City and the Contract awarded as the Commission desires.

18. GUARANTY OF FAITHFUL PERFORMANCE AND PAYMENT:

A Performance Bond and a Payment Bond each equal to 100 percent of the total Bid will be required of the Awardee. The Bond must be written through a company licensed to do business in the State of Florida and be rated at least "A", Class X, in the latest edition of "Best's Key Rating Guide", published by A.M. Best Company. As per Florida Statute Section 255.05, the Contractor shall be required to record the payment and performance bonds in the public records of Broward County.

19. INSURANCE:

Bidder must satisfy all insurance requirements as set forth in the Supplementary and General Conditions.

The insurance policy shall not contain any exceptions that would exclude coverage for risks that can be directly or reasonably related to the scope of goods or services in this bid/proposal. A violation of this requirement at any time during the term, or any extension thereof shall be grounds for the immediate termination of any contract entered in to pursuant to this bid/proposal. In order to show that this requirement has been met, along with an insurance declaration sheet demonstrating the existence of a valid policy of insurance meeting the requirements of this bid/proposal, the successful proposer must submit a signed statement from insurance agency of record that the full policy contains no such exception.

20. QUALIFICATIONS:

At the time of submission of the bid, Bidder must possess, and be able to provide City, any and all required Federal, State, County and/or municipal licenses, including but not limited to certificates of competency and occupational licenses. Moreover, upon receipt of the Award of the Contract, Bidder must provide proof of valid licensing for all subcontractors and/or material suppliers hired by the Contractor as set forth in Article 16 above.

When the Bidder is a Joint Venture, in order to satisfy the construction licensing requirements one member of a Joint Venture must hold a valid state certificate as well as the appropriate county and city license. The Contractor shall be held responsible for assurance that all subcontractors and/or material suppliers hired by the Contractor have the appropriate state certificate and licenses.

21. PERMITS:

The Contractor and Subcontractors must obtain Building Permits required for all work covered under this Contract as well as any other permit required by any other regulatory agency. The Master Building Permit required by the City shall be obtained by the Contractor but paid for by the City. Any and all other permits required by the City, County, State of Florida, or any other regulatory agency shall be obtained and paid for by the Contractor.

The Contractor or Subcontractors shall also be responsible to call for all inspections as required in Section 105 (Inspections) of the latest edition of the Florida Building Code.

- END OF SECTION -



NOTICE OF IMPOSITION OF CONE OF SILENCE

On **September 15, 2014**, the City of Hollywood, FL Department of Public Works – Engineering and Architectural Services Division issued the following:

FY 2014-64th AVENUE NEIGHBORHOOD ACCESSWAY & ROADWAY IMPROVEMENTS Project # PW-14-041

SCOPE:

Allen Street to Evans Street and Perry Street to Franklin Street

- Remove existing concrete sidewalk and replace with new 10 feet wide access way with swales.

Custer Street to Meade Street, Meade Street to Allen Street and Evans Street to Perry Street

- Remove approximately 4.5 feet of existing asphalt pavement adjacent to existing sod areas, replace with sod and regrade to create swales for an approximately 8.5 feet wide swale areas.

Charleston Street to Custer Street

- The City of Hollywood has entered into an agreement with the Broward County School Board in order to design an access road to be used by parents and school buses. This consists of two 11 feet wide lanes from Charleston Street to the school parking lot and one 11 feet wide access way from the parking lot to Custer Street. This land was transferred to the City for access and maintenance.

Pursuant to Section 30.15(E) of the Code of Ordinances, a Cone of Silence has been imposed on the items set forth above. The Cone of Silence will continue until the City awards or approves a contract, votes to reject all bids or responses, or otherwise takes action which ends the solicitation. If the City Commission refers the item back to the City Manager and staff for further review, the Cone of Silence shall remain in effect until an award is made, a contract is approved, or the City Commission takes any other action which ends the solicitation.

cc: City Commission Office
City Manager
City Clerk (sunshine board)
Affected department(s)/office(s)

NOTICE TO ALL BIDDERS AND PROPOSERS

Cone of Silence

The City of Hollywood City Commission adopted Ordinance No. O-2007-05, which created Section 30.15(E) imposing a Cone of Silence for certain City purchases of goods and services.

The Cone of Silence refers to limits on communications held between vendors and vendor's representatives and City elected officials, management and staff during the period in which a Formal Solicitation is open.

The Ordinance does allow potential vendors or vendor's representatives to communicate with designated employees for the limited purpose of seeking clarification or additional information. The names and contact information of those employees that may be contacted for clarification or additional information are: Clarissa Ip, P.E. and Frank Leon, P.E. at (954) 921-3900.

The Cone of Silence does not prohibit a vendor or vendor's representative from communicating verbally, or in writing to the City Manager, the City Manager's designee, the City Attorney or the City Attorney's designee on those procurement items to be considered by the City Commission.

The Cone of Silence does not prohibit a vendor or vendor's representative from making public presentations at a duly noticed pre-bid conference or duly noticed evaluation committee meeting or from communicating with the City Commission during a duly noticed public meeting.

The Cone of Silence shall be imposed when a formal competitive solicitation has been issued and shall remain in effect until an award is made, a contract is approved, or the City Commission takes any other action which ends the solicitation.

To view the Cone of Silence, Ordinance No. O-2007-05, go to the City of Hollywood's Official website at <http://www.hollywoodfl.org/ConeOfSilence>.

- END OF SECTION -

SECTION 00300

PROPOSAL

TO THE MAYOR AND COMMISSIONERS
CITY OF HOLLYWOOD, FLORIDA

SUBMITTED _____

Dear Mayor and Commissioners:

The undersigned, as BIDDER, hereby declares that the only person or persons interested in the Proposal as principal or principals is or are named herein and that no other person than herein mentioned has any interest in this Proposal or in the Contract to be entered into; that this Proposal is made without connection with any other person, company or parties making a Bid or Proposal; and that it is in all respects fair and in good faith without collusion or fraud.

The BIDDER further declares that he/she has informed him/herself fully in regard to all conditions pertaining to the Work that is to be done; that he/she has examined the Drawings and Specifications for the Work and contractual documents relative thereto, including the Notice to Bidders, Instructions to Bidders, Proposal Bid Form, Form of Bid Bond, Form of Contract and Form of Performance Bond, General, Supplementary and Technical Specifications, Addenda, and Drawings, and has read all of the Provisions furnished prior to the opening of bids; and that he/she has satisfied him/herself relative to the work to be performed.

The undersigned BIDDER has not divulged to, discussed or compared his bid with other bidders and has not colluded with any other BIDDER of parties to this bid whatever.

If this Proposal is accepted, the undersigned BIDDER proposes and agrees to enter into and execute the Contract with the City of Hollywood, Florida, in the form of Contract specified; of which this Proposal, Instructions to Bidders, General Specifications, Supplementary Conditions and Drawings shall be made a part for the performance of Work described therein; to furnish the necessary bond equal to one hundred (100) percent of the total Contract base bid, the said bond being in the form of a Cash Bond or Surety Bond prepared on the applicable approved bond form furnished by the CITY; to furnish all necessary materials, equipment, machinery, tools, apparatus, transportation, supervision, labor and all means necessary to construct and complete the work specified in the Proposal and Contract and called for in the Drawings and in the manner specified; to commence Work on the effective date established in the "Notice to Proceed" from the ENGINEER; and to substantially complete all Contract Work within 350 days with final completion within 14 days, and stated in the "Notice to Proceed" or pay liquidated damages for each calendar day in excess thereof, or such actual and consequential damages as may result therefrom.

The BIDDER acknowledges receipt of the following addenda:

No. _____	Dated _____
No. _____	Dated _____
No. _____	Dated _____

And the undersigned agrees that in case of failure on his part to execute the said Contract and the Bond within ten (10) days after being presented with the prescribed Contract forms, the check or Bid Bond accompanying his bid, and the money payable thereon, shall be paid into the funds of the City of Hollywood, Florida, otherwise, the check or Bid Bond accompanying this Proposal shall be returned to the undersigned.

Attached hereto is a certified check on the

_____ Bank of _____

or approved Bid Bond for the sum of

_____ Dollars (\$) according to the conditions
under the Instructions to Bidders and provisions therein.

NOTE: If a Bidder is a corporation, the legal name of the corporation shall be set forth below, together with signature(s) of the officer or officers authorized to sign Contracts on behalf of the corporation and corporate seal; if Bidder is a partnership, the true name of the firm shall be set forth below with the signature(s) of the partner or partners authorized to sign Contracts in behalf of the partnership; and if the Bidder is an individual, his signature shall be placed below; if a partnership, the names of the general partners.

WHEN THE BIDDER IS AN INDIVIDUAL:

(Signature of Individual)

(Printed Name of Individual)

(Address)

WHEN THE BIDDER IS A SOLE PROPRIETORSHIP OR OPERATES UNDER A TRADE NAME:

(Name of Firm)

(Address)

(Signature of Individual) (SEAL)

WHEN THE BIDDER IS A PARTNERSHIP:

(Name of Firm) A Partnership

(Address)

By: _____ (SEAL)
(Partner)

Name and Address of all Partners:

WHEN THE BIDDER IS A JOINT VENTURE:

(Correct Name of Corporation)

By: _____ (SEAL)
(Address)

(Official Title)

As Joint Venture
(Corporate Seal)

Organized under the laws of the State of _____, and authorized by the law to make this bid and perform all Work and furnish materials and equipment required under the Contract Documents.

WHEN THE BIDDER IS A CORPORATION:

(Correct Name of Corporation)

By: _____
(SEAL)

(Official Title)

(Address of Corporation)

Organized under the laws of the State of _____, and authorized by the law to make this bid and perform all Work and furnish materials and equipment required under the Contract Documents.

CERTIFIED COPY OF RESOLUTION OF
BOARD OF DIRECTORS

(Name of Corporation)

RESOLVED that _____
(Person Authorized to Sign)

_____ of
(Title) (Name of Corporation)

be authorized to sign and submit the Bid or Proposal of this corporation for the following project:

CITY OF HOLLYWOOD

FY 2014-64th AVENUE NEIGHBORHOOD ACCESSWAY & ROADWAY IMPROVEMENTS
Project No.: PW-14-041

The foregoing is a true and correct copy of the Resolution adopted by

_____ at a meeting of its Board of
(Name of Corporation)

Directors held on the _____ day of _____, 20____.

By: _____

Title: _____

(SEAL)

The above Resolution MUST BE COMPLETED if the Bidder is a Corporation.

- END OF SECTION –

PROPOSAL BID FORM

City File No.: PW-14-041

Project: FY 2014-64th AVENUE NEIGHBORHOOD
ACCESSWAY & ROADWAY IMPROVEMENTS

Account No.: TBA

If this Proposal is accepted the undersigned Bidder agrees to complete all work under this contract within 90 CALENDAR DAYS after the effective date established in the Notice to Proceed. UNIT PRICE PREVAILS OVER TOTAL PRICE. All entries to this form must be typed or written in ink.

Payment to the CONTRACTOR shall be made on the basis of the Proposal bid items as full and complete payment for furnishing all materials, labor, tools and equipment, and for performing all operations necessary to complete the work included in the Contract Documents. Such compensation shall also include payments for any loss or damages arising directly or indirectly from the work, or from any discrepancies between the actual quantities of work and those shown in the Contract Documents, or from any unforeseen difficulties which may be encountered during the prosecution of the work until the final acceptance by the CITY.

The prices stated in the proposal include all costs and expenses for taxes, labor, equipment, materials, commissions, transportation charges and expenses, patent fees and royalties, labor for handling materials during inspection, together with any and all other costs and expenses for performing and completing the work as shown on the plans and specified herein. Unit prices where used will be applied to the actual quantities furnished and installed in conformance with the Contract Documents.

The quantities for payment under the Contract shall be determined by actual measurement of the completed items, in place, ready for service and accepted by the CITY. A representative of the CONTRACTOR shall witness all field measurements.

No.	Description	Qty.	Unit	Unit Price	Total
1.	Clearing and Grubbing	1	LS	_____	_____
2.	Mobilization, lump sum price bid, full compensation for all mobilization/demobilization activities, including but not limited to any space required for staging, laydown, storage, parking, etc., and all other activities necessary to prepare to complete the contract work.	1	LS	_____	_____
3.	Maintenance of Traffic, approved by FDOT to include all temporary signs, striping, barricades, concrete barrier wall, flag man complete in place. (Certified MOT plan to be provided by Contractor)	1	LS	_____	_____
4.	Installation of Concrete Sidewalk 4" Thick. Including excavating, backfilling, grading and compacting. Work to be complete in place and as specified.	160	SY	_____	_____
5.	Milling of Existing Pavement	208	SY	_____	_____
6.	Asphalt Type S-III – 1.5" Thick	291	TON	_____	_____
7.	Limerock Base 8" Thick, Double Course, Primed	3,755	SY	_____	_____
8.	Type "B" Stabilization 12" Thick, Min. C.B.R. 30	3,755	SY	_____	_____

9.	Regular Excavation	972	CF	_____	_____
10.	Sod (See Sheet L-200 for Type)	1,925	SY	_____	_____
11.	Planting (*See Sheet L-200 for Quantity and Type)	*	LS	_____	_____
12.	Fence Relocation	210	LF	_____	_____
13.	Gates (Chain Link)	3	EA	_____	_____
14.	Pedestrian Gate	1	EA	_____	_____
15.	Guardrail	110	LF	_____	_____
16.	Concrete Curb Type "D"	130	LF	_____	_____
17.	Pavement Markings 4" White (Thermoplastic)	57	LF	_____	_____
18.	Pavement Marking 6" White (Thermoplastic)	60	LF	_____	_____
19.	Pavement Markings 6" Double Yellow (Thermoplastic)	720	LF	_____	_____
20.	Pavement Markings 18" White (Thermoplastic)	45	LF	_____	_____
21.	Pavement Markings 24" White (Thermoplastic)	12	LF	_____	_____
22.	Pavement Markings White Arrow (Thermoplastic)	1	EA	_____	_____
23.	Pavement Markings White Message (Thermoplastic)	1	EA	_____	_____
24.	Sign R3-2 (No Left Turn) Item Deleted under Addendum #3	4	EA	_____	_____
25.	Sign R5-1 (Do Not Enter)	2	EA	_____	_____
26.	Sign R1-1 (Stop)	1	EA	_____	_____
27.	Sign R11 (Local & School Traffic Only) To be installed at 66 Avenue & Charleston Street Item Deleted under Addendum #3	4	EA	_____	_____
28.	Sign OM1-1 (Object Marker)	12	EA	_____	_____
29.	Sign "DEAD END"	8	EA	_____	_____

TOTAL BASE BID _____

TOTAL BASE BID IN WRITING:

CONTRACTOR NAME: _____

SECTION 00410

APPROVED BID BOND
(Construction)

STATE OF FLORIDA

COUNTY OF _____

KNOW ALL MEN BY THESE PRESENTS:

That we _____, as Principal, and
_____, as Surety, are held
and firmly bound unto the City of Hollywood in the sum of _____

_____ Dollars (\$_____) lawful money of the
United States, amounting to 10% of the total Bid Price, for the payment of said sum, we bind ourselves,
our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the principal has submitted the
accompanying bid, dated _____ 20__ for

FY 2014-64th AVENUE NEIGHBORHOOD ACCESSWAY & ROADWAY IMPROVEMENTS
PROJECT NO. PW-14-041

NOW, THEREFORE, if the principal shall not withdraw said bid within 90 days after date of the same and
shall within ten days after the prescribed forms are presented to him for signature, enter into a written
contract with the CITY, in accordance with the bid as accepted, and give bond with good and sufficient
surety or sureties, and provide the necessary Insurance Certificates as may be required for the faithful
performance and proper fulfillment of such Contract, then this obligation shall be null and void.

In the event of the withdrawal of said bid within the specified period, or the failure to enter into such contract and give such bond and insurance within the specified time, the principal and the surety shall pay to the City of Hollywood the difference between the amount specified in said bid and such larger amount for which the City of Hollywood may in good faith contract with another party to perform the work and/or supply the materials covered by said bid.

IN WITNESS WHEREOF, the above bound parties have executed this statement under their several seals this _____ day of _____, 20____, the name and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

WHEN THE PRINCIPAL IS AN INDIVIDUAL:

Signed, sealed and delivered in the presence of:

Witness

Signature of Individual

Address

Printed Name of Individual

Witness

Address

WHEN THE PRINCIPAL IS A CORPORATION:

Attest:

Secretary

Name of Corporation

Business Address

By: _____
(Affix Corporate Seal)

Printed Name

Official Title

CERTIFICATE AS TO CORPORATE PRINCIPAL

I, _____, certify that I am the secretary of the Corporation named as Principal in the attached bond; that _____ who signed the said bond on behalf of the Principal, was then _____ of said Corporation; that I know his signature, and his signature thereto is genuine and that said bond was duly signed, sealed and attested for and on behalf of said Corporation by authority of its governing body.

(SEAL)
Secretary

TO BE EXECUTED BY CORPORATE SURETY:

Attest:

Secretary

Corporate Surety

Business Address

BY: _____
(Affix Corporate Seal)

Attorney-in-Fact

Name of Local Agency

Business Address

STATE OF FLORIDA

Before me, a Notary Public, duly commissioned, qualified and acting, personally appeared,

_____ to me well known, who being by me first duly sworn upon oath says that
he is the attorney-in-fact for the _____ and
that the has been authorized by _____ to execute the forgoing bond on
behalf of the CONTRACTOR named therein in favor of the City of Hollywood, Florida.

Subscribed and sworn to before me this _____ day of _____, 20_____

Notary Public, State of Florida

My Commission Expires:

- END OF SECTION -

SECTION 00420

INFORMATION REQUIRED FROM BIDDERS

GENERAL INFORMATION

The Bidder shall furnish the following information. Failure to comply with this requirement may cause its rejection. Additional sheets shall be attached as required.

1. Contractor's Name/Address: _____

2. Contractor's Telephone Number: _____
and e-mail address: _____
3. Contractor's License (attach copy): _____
Primary Classification: _____
Broward County License Number (attach copy): _____
4. Number of years as a Contractor in construction work of the type involved in this
Contract: _____

5. List the names and titles of all officers of Contractor's firm:

6. Name of person who inspected site or proposed work for your firm:
Name: _____
Date of Inspection: _____
7. What is the last project of this nature you have completed?

8. Have you ever failed to complete work awarded to you; if so, where and why?

9. Name three individuals or corporations for which you have performed work and to which you refer:

10. List the following information concerning all contracts on hand as of the date of submission of this proposal (in case of co-venture, list the information for all co-ventures).

Name of Project	City	Total Contract Value	Contracted Date of Completion	% Completion to Date

(Continue list on inset sheet, if necessary)

11. What equipment do you own that is available for the work?

12. What equipment will you purchase for the proposed work?

NOTE:

If requested by CITY, the Bidder shall furnish a notarized financial statement, references and other information, sufficiently comprehensive to permit an appraisal of its current financial condition.

SOURCE OF INFORMATION

How did you find out about this solicitation? Check all that apply.

- | | |
|---|--|
| 1. www.hollywoodfl.org | <input type="checkbox"/> |
| 2. www.bidsync.com | <input type="checkbox"/> |
| 3. Daily Business Review | <input type="checkbox"/> |
| 4. The Miami Herald | <input type="checkbox"/> |
| 5. Referral/word- of mouth | <input type="checkbox"/> Specify Source: _____ |
| 6. Search Engine/Internet search | <input type="checkbox"/> |
| 7. E-mail, newsgroup, online chat | <input type="checkbox"/> Specify Source: _____ |
| 8. Banner or Link on another website | <input type="checkbox"/> |
| 9. Flyer, newsletter, direct mail | <input type="checkbox"/> Specify Source: _____ |
| Other | <input type="checkbox"/> Specify Source: _____ |

Bid/RFP/RFQ Number: _____ Title: _____

LIST OF SUBCONTRACTORS

The Bidder shall list below the name and address of each Subcontractor who will perform work under this Contract in excess of one-half percent of the total bid price, and shall also list the portion of the work which will be done by such Subcontractor. After the opening of Proposals, changes or substitutions will be allowed with written approval of the City of Hollywood. Subcontractors must be properly licensed and hold a valid Hollywood Certificate of Competency.

	<u>Work to be Performed</u>	<u>Subcontractor's Name / Address</u>
1.	<hr/> <hr/>	<hr/> <hr/>
2.	<hr/> <hr/>	<hr/> <hr/>
3.	<hr/> <hr/>	<hr/> <hr/>
4.	<hr/> <hr/>	<hr/> <hr/>
5.	<hr/> <hr/>	<hr/> <hr/>
6.	<hr/> <hr/>	<hr/> <hr/>
7.	<hr/> <hr/>	<hr/> <hr/>
8.	<hr/> <hr/>	<hr/> <hr/>
9.	<hr/> <hr/>	<hr/> <hr/>
10.	<hr/> <hr/>	<hr/> <hr/>

NOTE: Attach additional sheets if required.

- END OF SECTION -

SECTION 00435

LOCAL PREFERENCE (EXHIBIT "A")

Pursuant to §38.50 of the City of Hollywood Code of Ordinances, the City shall grant a preference to local Hollywood vendors if their initial bid is within 5% of the bid of the lowest responsive responsible bidder that is a non-local Hollywood vendor. The preference shall allow the local Hollywood vendor to submit a second and final offer, which must be at least 1% less than the bid of the lowest responsive responsible non-local Hollywood vendor to be awarded. The local Hollywood vendor shall have the burden of demonstrating that it maintains a permanent place of business with full-time employees within the City limits and has done so for a minimum of one (1) year prior to the date of issuance of a bid or proposal solicitation within Hollywood, Florida. All supporting documentation (e.g. City of Hollywood valid local business tax receipt) for local preference eligibility must be received with the bid package prior to the bid opening date and time.

SECTION 00495

TRENCH SAFETY FORM

This form must be completed and signed by the Bidder.

Failure to complete this form may result in the bid being declared non-responsive.

Bidder acknowledges that the Florida Trench Safety Act, Section 553.60 et. seq., which became effective October 1, 1990, shall be in effect during the period of construction of the project. The Bidder by signing and submitting the bid is, in writing, assuring that it will perform any trench excavation in accordance with applicable trench safety standards. The Bidder further identifies the following separate item of cost of compliance with the applicable trench safety standards as well as the method of compliance:

Method of Compliance

Cost

Total \$ _____

Bidder acknowledges that this cost is included in the applicable items of the Proposal and in the Grand Total Bid Price. Failure to complete the above will result in the bid being declared non-responsive.

The Bidder is, and the Owner and Engineer are not, responsible to review or assess Bidder's safety precautions, programs or costs, or the means, methods, techniques or technique adequacy, reasonableness of cost, sequences or procedures of any safety precaution, program or cost, including but not limited to, compliance with any and all requirements of Florida Statute Section 553.60 et. seq. cited as the "Trench Safety Act". Bidder is, and the owner and Engineer are not, responsible to determine if any safety related standards apply to the project, including but not limited to, the "Trench Safety Act".

Witness Signature

Contractor's Signature

Witness Printed Name

Printed Name

Witness Address

Title

Date

Date

- END OF SECTION -

SECTION 00500

CONTRACT

THIS AGREEMENT, made and entered into, this ____ day of _____, A.D., __, by and between the CITY OF HOLLYWOOD, Florida, a municipal corporation of the State of Florida, part of the first part, (hereinafter sometimes called the "CITY"), and

party of the second part (hereinafter sometimes called the "CONTRACTOR").

WITNESSETH: The parties hereto, for the considerations herein- after set forth, mutually agree as follows:

Article 1. Scope of Work: The CONTRACTOR shall furnish all labor, materials, and equipment and perform all work in the manner and form provided by the Contract Documents, for:

FY 2014-64th AVENUE NEIGHBORHOOD ACCESSWAY & ROADWAY IMPROVEMENTS PROJECT NO. PW-14-041

Article 2. The Contract Sum: The CITY shall pay to the CONTRACTOR, for the faithful performance of the Contract, in lawful money of the United States of America, and subject to additions and deductions as provided in the Contract Documents, as follows:

Based upon the prices shown in the Proposal heretofore submitted to the CITY by the CONTRACTOR, a copy of said Proposal being a part of these Contract Documents, the aggregate amount of this Contract being the sum of:

Article 3. Partial and Final Payments: In accordance with the provisions fully set forth in the "General Conditions" of the "Specifications", and subject to additions and deductions as provided, the CITY shall pay the CONTRACTOR as follows:

- (a) On the 15th day, or the first business day thereafter, of each calendar month, the CITY shall make partial payments to the CONTRACTOR on the basis of a duly certified and approved estimate of work performed during the preceding calendar month by the CONTRACTOR, less ten percent (10%) of the amount of such estimate which is to be retained by the CITY until all work has been performed strictly in accordance with this Agreement and until such work has been accepted by the CITY.
- (b) Upon submission by the CONTRACTOR of evidence satisfactory to the CITY that all payrolls, material bills and other costs incurred by the CONTRACTOR in connection with the construction of the WORK have been paid in full, and also, after all guarantees that may be required in the Specifications have been furnished and are found acceptable by the CITY, final payment on account of this Agreement shall be made within sixty (60) days after completion by the CONTRACTOR of all work covered by this Agreement and acceptance of such work by the ENGINEER and approved by the CITY.

Article 4. Time of Completion: The CONTRACTOR shall commence work to be performed under this Contract within ten (10) consecutive calendar days after date of written Notice To Proceed and shall fully complete the Contract in accordance within the Contract Documents and meet all intermediate milestone completion dates required after said date of written notice as set forth in the Proposal, as may be modified by Instructions to Bidders, and stated in the Notice to Proceed.

It is mutually agreed between the parties hereto, that time is of the essence, and in the event that construction of the WORK is not completed within the Contract Time and per intermediate dates, as may have been modified solely in accordance with the General Conditions of this Contract, that from the compensation otherwise to be paid to the CONTRACTOR, the CITY is authorized and shall retain, for each day thereafter, Sundays and holidays included, the sum set forth in the Supplementary General Conditions of this Contract as liquidated damages sustained by the CITY in the event of such default by the CONTRACTOR, or shall withhold such compensation for actual and consequential damages as may be stated therein or contemplated therefrom.

Article 5. Additional Bond: It is further mutually agreed between the parties hereto, that if, at any time after the execution of this Agreement and the Payment and Performance Bonds required herein for the express purpose of assuring the faithful performance of the Contractor's work hereto attached, the CITY shall deem the surety or sureties' to be unsatisfactory, or, if for any reason, said bonds cease to be adequate to cover the performance of the work, the CONTRACTOR shall, at his expense, within five (5) days after receipt of notice from the CITY furnish an additional bond or bonds in such form and amount, and with such surety or sureties as shall be satisfactory to the CITY. In such event, no further payment to the CONTRACTOR shall be deemed to be due under this agreement until such new or additional security for the faithful performance of the work shall be furnished in manner and form satisfactory to the CITY.

Article 6. Contract Documents: All of the documents hereinafter listed form the Contract and they are as fully a part of the Contract as if hereto attached, or repeated in this Agreement:

- | | |
|--------------------------------------|--------------------------------------|
| 1. Notice to Bidders | 9. Contract |
| 2. Instruction to Bidders | 10. Performance Bond |
| 3. Proposal | 11. Payment Bond |
| 4. Proposal Bid Form | 12. General Conditions |
| 5. Bid Bond | 13. Supplementary General Conditions |
| 6. Information Required from Bidders | 14. Addenda |
| 7. Local Preference | 15. Specifications |
| 8. Trench Safety Form | 16. Drawings |

Article 7. The rate of wages and fringe benefits, or cash equivalent, for all laborers, mechanics and apprentices employed by any contractor or subcontractor on the work covered by the contract shall be not less than the prevailing rate of wages and fringe benefit payments or cash equivalent for similar skills or classifications of work as established by the General Wage Decision by the United States Department of Labor for Broward County, Florida that is in effect prior to the date the city issues its invitation for bids. If the General Wage Decision fails to provide for a fringe benefit rate for any worker classification, then the fringe benefit rate applicable to the worker classification shall be the fringe benefit rate applicable to the worker classification with a fringe benefit rate that has a basic hourly wage closest in dollar amount to the worker classification for which no fringe benefit rate has been provided.

Article 8. No additional work or extras shall be performed unless the same be duly authorized by appropriate action of the City.

Article 9. That in the event either party brings suit for enforcement of disagreement, the prevailing party shall be entitled to attorney's fees and court costs in addition to any other remedy afforded by law.

Article 10. The Contractor shall guarantee the complete project against poor workmanship and faulty materials for a period of twelve (12) months after final payment and shall immediately correct any defects which may appear during this period upon notification by the City or the Engineer.

Article 11. The making and acceptance of the final payment shall constitute a waiver of all claims by the Contractor, except those previously made and still unsettled.

As prepared/approved by:

Jonathan Vogt, P.E.
Deputy Director of Public Works/City Engineer

IN WITNESS WHEREOF the parties hereto have executed this Agreement on the day and date first above written in three (3) counterparts, each of which shall, without proof or accounting for the other counterparts, be deemed an original contract:

THE CITY OF HOLLYWOOD, FLORIDA
Party of the First Part

By: _____ (SEAL)
PETER BOBER, MAYOR

ATTEST:

PATRICIA CERNY, MMC, CITY CLERK

CONTRACTOR
Party of the Second Part

WHEN THE CONTRACTOR IS AN INDIVIDUAL:

Signed, sealed and delivered in the presence of:

_____ (Witness)	_____ (Signature of Individual)	(SEAL)
_____ (Witness)	_____ (Signature of Individual)	

WHEN THE CONTRACTOR IS A SOLE PROPRIETORSHIP OR OPERATES UNDER A TRADE NAME:

Signed, sealed and delivered in the presence of:

_____ (Witness)	_____ (Name of Firm)	
_____ (Witness)	_____ (Signature of Individual)	(SEAL)

WHEN THE CONTRACTOR IS A PARTNERSHIP:

Signed, sealed and delivered in the presence of:

(Witness)

(Name of Firm) a Partnership

(Witness)

BY: _____ (SEAL)
(Partner)

WHEN THE CONTRACTOR IS A CORPORATION:

Attest:

Secretary

(Correct Name of Corporation)

BY: _____ (SEAL)
President

APPROVED AS TO FORM AND LEGALITY FOR
THE USE AND RELIANCE OF THE CITY OF
HOLLYWOOD, FLORIDA ONLY:

APPROVED AS TO FINANCE:

By _____
JEFFREY SHEFFEL, CITY ATTORNEY

By _____
Director of Financial Services

CERTIFICATE

STATE OF FLORIDA)
COUNTY OF BROWARD)

I HEREBY CERTIFY that a meeting of the Board of Directors of _____,
a corporation under the laws of the State of _____, was held on _____, 20____, and the
following resolution was duly passed and adopted:

"RESOLVED, that _____ as _____ President of the corporation, be and he is
hereby authorized to execute the contracts on behalf of this corporation, and that his
execution thereof, attested by the Secretary of the corporation and with corporate seal
affixed, shall be the official act and deed of this corporation."

I further certify that said resolution is now in full force and effect.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the official seal of the corporation, this
day of _____, 20____.

Secretary

- END OF SECTION -

SECTION 00610

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS:

That we _____,
Name Address Tel. No.

as Principal, and _____,
Name Address Tel. No.

as Surety, are held and firmly bound unto the City of Hollywood in the sum of _____ Dollars (\$_____), for the payment of said sum we bind ourselves, our heirs, executors, administrators and assigns, jointly and severally, for the faithful performance of a certain written contract, dated the _____ day of _____, 20____ entered into between the Principal and the City of Hollywood, Florida, for the installation of:

**FY 2014-64th AVENUE NEIGHBORHOOD ACCESSWAY & ROADWAY IMPROVEMENTS
PROJECT NO. PW-14-041**

A copy of said Contract is incorporated herein by reference and is made a part hereof as if fully copied herein.

NOW, THEREFORE, THE CONDITIONS OF THIS OBLIGATION ARE SUCH, that if the Principal shall in all respects comply with the terms and conditions of said Contract and his obligations thereunder, including all of the Contract Documents (that include the Notice to Bidders, Instructions to Bidders, Proposal, Proposal Bid Form, Basis of Payment, Approved Bid Bond, , Trench Safety Form, Information Required from Bidders, Contract, Performance Bond, Payment Bond, General and Supplementary General Conditions, Technical Specifications, Addenda and Drawings), therein referred to and made a part thereof, and such alterations as may be made in said Drawings and Specifications as therein provided for, and shall indemnify and save harmless the City of Hollywood against and from all expenses, damages, injury or conduct, want of care of skill, negligence or default, including patent infringement on the part of said Principal, his agents or employees, in the execution or performance of said Contract, including errors in the Drawings furnished by said Principal, and further, if the Principal shall promptly make payments to all who supply him, with labor and/or materials, used directly or indirectly by the Principal in the prosecution of the work provided for in said Contract, then this obligation shall be null and void; otherwise, the Principal and Surety, jointly and severally, agree to pay the City of Hollywood any difference between the sum that the City of Hollywood may be obliged to pay for the completion of said work, by Contract or otherwise, and the sum that the City of Hollywood would have been obliged to pay for the completion said work had the Principal properly executed all of the provisions of said Contract, and any damages, whether direct, indirect, or consequential, which the City of Hollywood may incur as a result of the failure of the said Principal to properly execute all of the provisions of said Contract.

AND, the said Principal and Surety hereby further bind themselves, their successors, executors, administrators and assigns, jointly and severally, that they will amply and fully protect the City of Hollywood against, and will pay any and all amounts, damages, costs and judgments which may be recovered against or which the Owner may be called upon to pay to any person or corporation by reason of any damage arising from the performance of the said work, repair or maintenance thereof, or the manner of doing the same, or his agents or his servants, or the infringements of any patent rights by reason of the use of any material furnished or work done, as aforesaid or otherwise.

AND, the said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the Contract or to the work to be performed hereunder or the Specifications and Drawings accompanying the same, shall in any way 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 and Drawings.

AND, the said Principal and Surety jointly and severally covenant and agree that this Bond will remain in full force and effect for a period of one year commencing on the date of Substantial Completion as established on the Certificate of Substantial Completion as issued by the City of Hollywood.

This bond is executed pursuant to Section 255.05, Florida Statutes, and is subject to the notice and time limitation provisions thereof.

WHEN THE PRINCIPAL IS AN INDIVIDUAL:

Signed, sealed and delivered in the presence of:

(Witness)

(Signature of Individual)

(Printed Name of Witness)

(Printed Name of Individual)

(Address)

(Witness)

(Printed Name of Witness)

(Address)

WHEN THE PRINCIPAL IS A SOLE PROPRIETORSHIP OR OPERATES UNDER A TRADE NAME:

Signed, sealed and delivered in the presence of:

(Witness)

(Printed Name of Witness)

(Address)

(Witness)

(Printed Name of Witness)

(Address)

(Name of Firm)

By:

(Seal) _____
(Signature of Individual)

(Printed Name of Individual)

WHEN THE PRINCIPAL IS A PARTNERSHIP:

Signed, sealed and delivered in the presence of:

(Witness)

(Printed Name of Witness)

(Address)

(Witness)

(Printed Name of Witness)

(Address)

(Name of Partnership)

By: (Seal)

(Partner)

(Printed Name of Partner)

WHEN THE PRINCIPAL IS A CORPORATION:

Attest:

(Secretary)

(Name of Corporation)

By: _____ (Seal)
(Affix Corporate Seal)

(Printed Name)

(Official Title)

CERTIFICATE AS TO CORPORATE PRINCIPAL

I, _____, certify that I am the Secretary of the corporation named as Principal in the within bond; that

_____, who signed the said bond on behalf of the Principal was then _____ of said corporation; that I know his signature, and his signature thereto is genuine; and that said Bond was duly signed, sealed and attested for and on behalf of said corporation by authority of its governing body.

(SEAL)
Secretary

Printed Name of Secretary

TO BE EXECUTED BY CORPORATE SURETY

Attest:

(Secretary)

(Corporate Surety)

(Business Address)

By: _____
(Affix Corporate Seal)

(Attorney-In-Fact)

(Name of Local Agency)

(Business Address)

STATE OF FLORIDA

COUNTY OF _____

Before me, a Notary Public, duly commissioned, qualified and acting, personally appeared, _____ to me well known, who being by me first duly sworn upon oath, says that he is the attorney-in-fact for the _____ and that he has been authorized by _____ to execute the foregoing bond on behalf of the CONTRACTOR named therein in favor of the City of Hollywood, Florida. Subscribed and sworn to before me this _____ day of _____, 20_____.

Notary Public, State of Florida

My Commission Expires:

APPROVED AS TO FORM AND LEGALITY
for the use and reliance of the city of Hollywood,
Florida only:

By _____
JEFFREY SHEFFEL, CITY ATTORNEY

APPROVED AS TO FINANCE:

By _____
Director of Financial Services

- END OF SECTION -

SECTION 00620

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, _____
Name Address Tel. No.

As Principal and _____
Name Address Tel. No.

as Surety, are held and firmly bound to the CITY OF HOLLYWOOD, FLORIDA herein called the City, in the sum of _____

_____ Dollars (\$ _____) for the payment of said sum we bind ourselves, our heirs, executors, administrators and assigns, jointly and severally, for the faithful performance of a certain written contract dated the _____ day of _____, 20____, entered into between the Principal and the City of Hollywood, Florida for the installation of the

**FY 2014-64th AVENUE NEIGHBORHOOD ACCESSWAY & ROADWAY IMPROVEMENTS
PROJECT NO. PW-14-041**

Which contract is by reference made a part hereof, and is hereinafter referred to as the Contract.

THE CONDITION of this bond is that if Principal promptly makes payments to all claimants defined in Section 255.05 (1), F.S., supplying Principal with labor, materials or supplies used directly or indirectly by principal in the prosecution of the work provided for in the Contract, then this bond shall be null and void and of no further force and effect; otherwise to remain in full force and effect.

Said surety for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or any other changes in or under contract documents and compliance or noncompliance with any formalities connected with the contract does not affect Surety's obligation under this bond and Surety waives notice of any such change, extension of time, alteration or addition to the terms of the Contract or any other changes, compliance, or noncompliance to the terms of the Contract or to the Work or to the Specifications.

This bond is furnished pursuant to the statutory requirements for bond on public works projects being Florida Statute 255.05. Claimants are hereby notified that the Statute 255.05(2) specifically requires that notice be given to Contractor within 45 days after beginning to furnish labor, materials or supplies for the prosecution of the work that claimants intends to look to the bond for protection. Further notice is hereby given claimants that written notice of nonpayment within ninety (90) days after performance of the labor or after complete delivery of the materials or supplies must be delivered to the Contractor and to the Surety. Further notice is hereby given that no action for labor, materials or supplies may be instituted against the Contractor or the Surety on the bond after one year for the performance of the labor or completion of delivery of the materials or supplies.

Without modifying the foregoing, this bond shall be construed as requiring of the principal and surety no more and no less than is specified in F.S. 255.050.

SIGNED AND SEALED, this _____ day of _____, 20____.

PRINCIPAL:

ATTEST:

(Signature)

(Title)

(SEAL)

SURETY:

(Surety)

ATTEST:

(Signature)

(Attorney-in-Fact)

APPROVED AS TO FORM AND LEGALITY
for the use and reliance of the
City of Hollywood, Florida only:

By _____
JEFFREY SHEFFEL, CITY ATTORNEY

APPROVED AS TO FINANCE:

By _____
Director of Financial Services

- END OF SECTION -



**CITY OF HOLLYWOOD
DEPARTMENT OF PUBLIC WORKS
ENGINEERING & ARCHITECTURAL SERVICES
DIVISION**

GENERAL CONDITIONS

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FOR CONSTRUCTION CONTRACTS

ARTICLE 1 - DEFINITIONS

In the interpretation of these Contract Documents the following terms shall have the meaning indicated:

ADDENDA - Written or graphic instruments issue prior to the opening of Bids which clarify, correct or change the Contract Documents.

CHANGE ORDER - A written order to CONTRACTOR signed by the City Manager or his/her authorized designee authorizing an addition, deletion or revision in the work, or an adjustment in the Contract Price or the Contract Time, issued after the date of Award.

CITY - The City of Hollywood, Florida.

COMMISSION - The City Commission of the City of Hollywood, Florida, being the legislative body of the CITY described in the City Charter.

CONTRACT - The written agreement between the CITY and the CONTRACTOR covering the work to be performed in accordance with the other Contract Documents which are attached to or referenced in the Contract and made a part thereof.

CONTRACTOR - The person, firm, or corporation with whom the CITY has entered into the Contract.

CONTRACT DOCUMENTS - The Notice to Bidders, Instruction to Bidders, Proposal, Information Required of Bidders, the Record of the Contract Award by the City Commission, the CONTRACTOR'S Response thereto, all Bonds, Agreement, and all supporting documents, these General Conditions, the Specifications, Drawings and Permits, together with all Addenda and Change Orders issued with respect thereto, and any Project Manual.

CONTRACT TIME - The number of days agreed to in the Proposal, commencing with the date of the Notice to Proceed for completion of the work.

CONSULTANT - As used herein shall mean the Architect or Engineer who has contracted with the City to provide professional services for this Project and who is registered under the laws of Florida as a registered Architect, Engineer or Landscape Architect, as applicable.

DATE OF SUBSTANTIAL COMPLETION - The date when the work on the project, or specified part thereof, is substantially completed in accordance with the Contract Documents, such that the CITY can occupy or utilize the project or specified part thereof for the use and purpose for which it was intended.

DAYS - Calendar days of 24 hours measured from midnight.

DRAWINGS - The drawings which show the character and scope of the work to be performed and which have been prepared or approved by OWNER'S REPRESENTATIVE and are referred to in and are a part of the Contract Documents.

EXCUSABLE DELAY - Delay caused by acts or neglect by the CITY, hurricane, tornadoes, fires, floods, epidemics or labor strikes.

GENERAL CONDITIONS - That segment of the Contract Specifications incorporating the Provisions common to all CITY Construction Contracts.

INEXCUSABLE DELAY - Any delay caused either (i) by events or circumstances within the control of the CONTRACTOR, such as inadequate crewing, slow submittals, material deliveries etc., which might have

been avoided by the exercises of care, prudence, foresight, or diligence on the part of the CONTRACTOR, or (ii) by weather conditions (other than hurricanes or tornadoes).

INSPECTOR - The sole authorized representative of the CITY and OWNER'S REPRESENTATIVE in all on-site relations with the CONTRACTOR, assigned to make all inspections of the work being performed or materials being furnished.

LIQUIDATED DAMAGES - The amount prescribed in the Supplementary Conditions to be paid the CITY, or to be deducted from any payments due the CONTRACTOR for each day's delay in completing the whole or any specified portion of the work beyond the Contract Time.

NOTICE OF AWARD - The written notice by the CITY to the successful Bidder stating that upon his execution of the Agreement and other requirements as listed therein within the time specified the CITY will sign and deliver the Agreement.

NOTICE TO PROCEED - A written notice by the OWNER'S REPRESENTATIVE to the CONTRACTOR fixing the date on which the Contract Time will commence to run and on which the CONTRACTOR shall start to perform his obligation under the Contract Documents.

OTHER CONTRACTORS – As used herein shall mean any person, firm or corporation with whom a Contract has been made by the Owner for the performance of any work on the site, which work is not a portion the work covered by the Contract.

OWNER - The CITY of Hollywood, Florida.

OWNERS REPRESENTATIVE - as used herein shall mean Director of Public Services for the City of Hollywood, 1621 N. 14th Avenue, Hollywood, FL.

"OR EQUAL" - Equivalent or superior in construction, efficiency and effectiveness to a type, brand, model or process called out in the Contract Documents to establish a basis of quality.

PROJECT MANAGER is the person, who is an employee of the City of Hollywood, who is assigned by the Director of Public Services to manage the Project, and attempt to resolve issues with the Contract Documents, as a direct representative of the Owner.

SHOP DRAWINGS - All certified affidavits, drawings, diagrams, illustrations, schedules and other data which are specifically prepared by CONTRACTOR, a Sub-Contractor, manufacturer, fabricator, supplier or distributor to illustrate some portion of the work and all illustrations, brochures, standard schedules, performance charts, instructions, diagrams and other information prepared by a manufacturer, fabricator, supplier or distributor and submitted by CONTRACTOR to illustrate material or equipment for some portion of the WORK.

SPECIFICATIONS - Division 1 through 16 of these Contract Documents, consisting of administrative details and written technical descriptions of materials, equipment, standards and workmanship.

SUPERINTENDENT, as used herein refers to the executive representative for the Contractor present on the work at all times during progress, authorized to receive and fulfill instructions from the Owner's Representative and capable of superintending the work efficiently.

SUPPLEMENTARY CONDITIONS - Division 1 of the Contract Specifications incorporating the provisions peculiar to a specific project.

SUB-CONTRACTOR - An individual, firm or corporation having a direct contract with CONTRACTOR or with any other Sub-CONTRACTOR for the performance of a part of the work. The term "Sub-CONTRACTOR will include Sub-Sub-CONTRACTORS, Suppliers and Material Providers of the CONTRACTOR."

SURETY - The person, firm or corporation responsible for the Bidder's acts in the execution of the Contract, or which is bound with and for the CONTRACTOR to insure performance of the Contract and payment of all obligations pertaining to the work.

WORK - All the work materials or products specified, indicated, shown or contemplated in the Contract Documents to construct and complete the improvement, including all alterations, modifications, amendments or extension thereto made by Change Orders.

PROPOSAL GUARANTY, as used herein shall mean that the bid bond or good faith deposit designated in the Proposal, to be furnished by the Bidder as a guaranty of good faith to enter into a Contract with the Board, if the Contract is awarded to him.

WRITTEN NOTICE, shall be deemed to have been duly served if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, if delivered at or sent by registered mail to the last business address known to him who gives notice.

BENEFICIAL OCCUPANCY, as used herein means that date at which time the project is substantially completed, as determined by Owner's Representative, and the Owner may occupy the project with furniture, equipment and accessories required for the operation of the facility. It does not refer to any prior dates wherein the Owner employs other contractors to work on the same site of the project.

PUNCH LIST, as used herein shall refer to a list of items of work required by the Contract Documents which after inspection by the Consultant or Owner's Representative has been termed to be deficient and/or inconsistent with the Contract Documents. This list will be compiled, and submitted to the Contractor, only upon substantial completion of the project, as determined by the Owner's Representative or Consultant.

FINAL COMPLETION, as used herein means that date subsequent to the date of Beneficial Occupancy at which time the project, including the correction of all punch list items, is totally completed in all of its detail for final acceptance, to the satisfaction of the Consultant and Owner's Representative.

SUBSTANTIAL COMPLETION, as used herein, the date on which, as certified in writing by CONSULTANT, the work, or a portion thereof designated by CONTRACT ADMINISTRATOR, in its sole discretion, is at a level of completion in substantial compliance with the CONTRACT documents such that all conditions of permits and regulatory agencies have been satisfied and the Owner or its designee can enjoy use or occupancy and use or operate it in all respects for its intended purpose. A Certificate of Occupancy must be issued for substantial completion to be achieved, however, the issuance of a Certificate of Occupancy or the date thereof is not determinative of the achievement or date of substantial completion.

ARTICLE 2 - ORGANIZATIONAL ABBREVIATIONS

Abbreviations of organizations which may be used in these Specifications are:

AASHTO:	American Association of State Highway and Transportation Officials
ACI:	American Concrete Institute
AIA:	American Institute of Architects
AISC:	American Institute of Steel Construction
AITC:	American Institute of Timber Construction
ANSI:	American National Standards Institute
APWA:	American Public Works Association
ASTM:	American Society for Testing and Materials
ASCE:	American Society of Civil Engineers
ASME:	American Society of Mechanical Engineers
ASHRAE:	American Society of Heating, Refrigerating and Air Conditioning Engineers
AWPA:	American Wood Preservers Association
AWWA:	American Water Works Association
AWS:	American Welding Society
BCEQCB:	Broward County Environmental Quality Control Board
CRSI:	Concrete Reinforcing Steel Institute
DER:	Florida Department of Environmental Regulation
DNR:	Florida Department of Natural Resources
FDOT:	Florida Department of Transportation
FP&L:	Florida Power and Light
IEEE:	Institute of Electrical and Electronic Engineers
NACE:	National Association of Corrosion Engineers
NCPI:	National Clay Pipe Institute
NEC:	National Electrical Code

NEMA:	National Electrical Manufacturers Association
NFPA:	National Fire Protection Association
OSHA:	Occupational Safety and Health Act
PCI:	Prestressed Concrete Institute
SFBC:	South Florida Building Code, Broward Edition, Latest Revision
SFWMD:	South Florida Water Management District
SSPC:	Structural Steel Painting Council
UL:	Underwriters' Laboratories, Inc.
UNCLE:	Utility Notification Center for Location before Excavation (1-800-432-4770)
USEPA:	United States Environmental Protection Agency
USGS:	United States Geological Survey
WWEMA:	Water and Wastewater Equipment Manufacturers Association

ARTICLE 3 – ADMINISTRATION OF THE CONTRACT

The Consultant and the Project Manager will provide Administration of the Contract hereinafter described. For those projects for which the City of Hollywood serves as the Consultant (Architect of Record) all references to the Consultant shall be considered to be to the Project Manager.

The Consultant and the Project Manager will have authority to act on behalf of the Owner to the extent provided in the Contract Documents, unless otherwise modified by written instrument which will be issued to the Contractor. All instructions to the Contractor shall be issued through the Consultant, except under special circumstances when instructions may be issued by the Project Manager or with the Project Manager approval, by the Architect reporting to him/her, or the Engineer reporting to him/her.

The Consultant, the Project Manager and other personnel authorized by the Owner, shall at all times have access to the Work whenever it is in preparation or progress. The Contractor shall provide safe facilities for such access so the Consultant and the Project Manager may perform their functions under the Contract.

The Consultant will make periodic visits to the site to familiarize him/herself generally with the progress and quality of the Work and to determine in general if the Work is proceeding in accordance with the Contract Documents. On the basis of on-site observations the Consultant will keep the Owner informed of the progress of the Work, and will endeavor to guard the Owner against defects and deficiencies in the Work of the Contractor.

Neither the Consultant nor the Owner will be responsible for construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the Work, and neither will be responsible for the Contractor's failure to carry out the Work in accordance with the Contract Documents.

The Consultant will have authority to reject Work which does not conform to the Contract Documents and to require special inspection or testing, but shall take such action only after consultation with the Project Manager. The Project Manager will have the authority to reject Work which does not conform to the Contract Documents. Whenever the Project Manager considers it necessary or advisable to insure the proper implementation of the Contract Documents, the Project Manager will have the authority to require special inspection or testing of the Work, whether or not such Work be then fabricated, installed or completed. Neither the Consultant's nor the Project Manager's authority to act under this Subparagraph, nor any decision made by them in good faith either to exercise or not to exercise such authority shall give rise to any duty or responsibility of the Consultant or the Project Manager to the Contractor, any Subcontractor, any of their agents or employees, or any other person performing any of the Work.

All interpretations and recommendations of the Consultant shall be consistent with the intent of the Contract Documents. In this capacity as interpreter, the Consultant will exercise best efforts to insure faithful performance by both the Owner and the contractor and will not show partiality to either.

The Contractor shall forward all communications to the Consultant, with copies to the Project Manager.

The Project Manager will assist the Consultant in conducting inspections to determine the date or dates of Substantial Completion and Final Acceptance, and will receive and review written guarantees and related documents required by the Contract. The Project Manager will approve Project Payment Certificates.

The duties, responsibilities and limitations of authority of the Consultant and the Project Manager as the Owner's Representative during assembly as set forth in these General Conditions will not be modified nor extended without written consent of the Contractor, the Consultant, and the Owner.

Neither the consultant nor the Owner will be responsible for the acts of omissions of the Contractor, any Sub-Contractor's, or any of their agents or employees, or any persons performing any of the Work.

In case of the termination of employment of the Consultant, the Director of Facilities may appoint a Consultant whose status under the Contract Documents shall be that of the former Consultant.

ARTICLE 4 – MISCELLANEOUS PRELIMINARY MATTERS

4.1 Contract Document Discrepancies:

Any discrepancies, conflicts, errors or omissions found in the Contract Documents shall be promptly reported to the OWNER'S REPRESENTATIVE who will issue a correction, if necessary, in writing. The CONTRACTOR shall not take advantage of any such discrepancies, conflicts, errors or omissions, but shall comply with any corrective measures regarding the same as prescribed by the OWNER'S REPRESENTATIVE.

4.2 Submissions:

Within seven days subsequent to the CONTRACTOR executing and submitting the required documents of Article 15 in the Instructions to Bidders, he shall submit to the OWNER'S REPRESENTATIVE an estimated progress schedule indicating the starting and completion days of the various stages of the work. A preliminary Schedule of Values and a preliminary schedule of Shop Drawing submissions may also be required by Sections 1.05, 1.11 and 1.12 respectively, of the Supplementary conditions.

4.3 Pre-Construction Conference:

Section 12 of the Supplementary conditions may require a Pre-Construction conference for a review of the above schedules, establishing procedures and establishing a working understanding among the parties as to the work. If required, attendance will be mandatory.

4.4 Contract Time:

The Contract Time will commence on the date of the Notice to Proceed and shall exist for the total number of days as specified in the Proposal (or any subsequent Change Orders), unless the CONTRACTOR failed to complete the requirements of Article 15 of the Instructions to Bidders, in which case the additional time in days (including weekends) required to correctly complete the documents will be deducted from that Contract Time specified in the proposal.

4.5 Computation of Time:

When any period of time is referred to the Contract Documents by days, it shall be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a legal holiday, such day shall be omitted from the computation.

4.6 Commencement of Work:

The CONTRACTOR shall not perform work at the site prior to the date of the Notice to Proceed.

4.7 Extension of Contract Time:

Extensions of time shall be based solely upon the effect of delays to the work as a whole. Extensions of time shall not be granted for delays to the work, unless the CONTRACTOR can clearly demonstrate, through schedule analysis, that the delay to the work as a whole arose in accordance with Article 18, changes in Contract Time and that such delays did or will, in fact, delay the progress of work as a whole. Time extensions shall not be allowed for delays to parts of the work that are not on the critical path of the Project schedule. Time extensions shall not be granted until all float or contingency time, at the time of the delay, available to absorb specific delays and associated impacts, is used.

4.8 Notice and Service Thereof:

All notices, demands, requests, instructions, approvals and claims shall be in writing. Notices, demands, etc., shall be deemed to have been validly given if delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or if delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the giver of the notice.

4.9 Separate Contract:

The CITY reserves the right to let other contracts in connection with this Project. The CONTRACTOR shall afford other OTHER CONTRACTORS a reasonable opportunity for the introduction and storage for their materials and the execution of their work and shall properly connect and coordinate his work with theirs.

4.10 Assignments of Contract:

No assignment by the CONTRACTOR of the Contract or of any part thereof, or any monies due or to become due thereunder shall be made without the prior written approval of the City Commission, which approval will be given only after the Surety on the Contract Bond has informed the City Commission in writing that it approves of such assignment being made.

In the event that the CONTRACTOR shall undertake to assign all or any part of any monies due or to become due under the Contract, the instrument of assignment shall contain a provision substantially to the effect that it is agreed that the right of the assignee in and to any such monies shall be subject to the prior liens of all persons for services rendered or material supplied for the performance of all work embraced by the Contract.

4.11 Patent Rights and Infringement:

There are various established performance criteria throughout this contract for products and services. There may exist patent coverage for some means and methods of achieving these performance criteria. CONTRACTOR is responsible for ascertaining that means and methods of the products and services which they are providing are not being provided in violation of any such patent rights. CONTRACTOR responsibilities are as follows:

1. To hold harmless, the CITY, as to any violation to include dollar amounts that could be owing as a result of damages for infringement including potential treble damages as provided for under U. S. Patent and Trademark Law.
2. To pay any and all royalties and cost arising from patents, trademarks and copyrights in any way involved in the work and to show evidence that the right to use any such product has been secured by suitable legal agreements with the Patentee or owner and a copy of the agreement must be filed with the OWNER'S REPRESENTATIVE.

3. Any and all costs that the CITY would incur in replacing materials and services which are determined to infringe patent rights.
4. All administrative, legal and other costs that would be incurred as a result of an infringement.

If any product or services proposed to be provided by the CONTRACTOR are known by the CONTRACTOR to be subject to any existing claims of infringement, CONTRACTOR shall notify CITY of such claim and provide evidence of financial ability to perform on the above hold harmless requirement.

4.12 Federal Excise Tax:

The forms needed for applying for exemption certificates for materials and equipment, normally subject to the Federal Excise Tax, may be obtained from the Director of Internal Revenue, Jacksonville, Florida.

The CONTRACTOR is solely responsible for obtaining the desired exemption certificate from the Federal Government.

4.13 Savings Due to Excise Tax Exemptions:

The Bidder shall include in the Bid price the estimated cost of all goods, supplies and equipment which will be incorporated in the Work and the taxes that the Bidder would be required to pay if the Bidder were to purchase such goods, supplies or equipment. By subsequent Change Order(s), the parties shall reduce the Bid price to reflect any goods, supplies and equipment purchased directly by City and the resulting tax savings due to City's exemption from Excise Taxes.

CONTRACTOR shall pay all sales, consumer, use and other similar taxes required to be paid by CONTRACTOR in accordance with the laws and regulations of the State of Florida and its political subdivisions.

Consistent with the tax exemption for municipalities provided by state law, CITY and CONTRACTOR shall jointly operate so that CITY may purchase directly, goods, supplies and equipment which will be incorporated into the Work. The goods, supplies and equipment that will be purchased by CITY shall be approved in advance by the parties.

With respect to all goods, supplies and equipment to be purchased by CITY, CONTRACTOR shall, on behalf of CITY, take all actions necessary and appropriate to cause all purchases to be made and shall be responsible for delivery of all such goods, supplies and equipment, including verification of correct quantities and documents or orders, coordination of purchases and delivery schedules, sequence of delivery, unloading, handling and storage through installation, obtaining warranties and guarantees required by the Contract Documents, inspection and acceptance of the goods, supplies and equipment at the time of delivery, and other arrangements normally required for the particular goods, supplies or equipment purchased. Unless otherwise directed by CITY, such actions shall also include taking the lead in efforts to resolve any and all disputes with the vendor. CONTRACTOR shall ensure that each vendor of goods, supplies and equipment purchased by CITY agrees in writing to the terms and conditions contained in CITY'S standard purchase order, which terms and conditions are set forth in Section 00800 of the Contract Documents. Even though CITY may purchase such goods, supplies and equipment, the goods, supplies and equipment shall be stored at the site in the same manner as goods, supplies and equipment purchased by CONTRACTOR.

CONTRACTOR shall hold CITY harmless from delays in manufacturing, delivery, and other unforeseen conditions that may arise as part of the procurement of CITY-purchased goods, supplies and equipment.

4.14 Overtime Work:

The CONTRACTOR shall receive no additional compensation for overtime work, i.e. work in excess of eight hours in any one calendar day or 40 hours in any one calendar week, even though such overtime work may be required under emergency conditions and may be ordered by the OWNER'S REPRESENTATIVE in writing. Additional compensation will be paid the CONTRACTOR for overtime work only in the event extra work is ordered by the OWNER'S REPRESENTATIVE and the Change Order specifically authorizes the use of overtime work and then only to such extent as overtime work of a similar nature in the same locality.

4.15 Inspections and Testing During Overtime:

All costs of inspection and testing performed during overtime work by the CONTRACTOR, which is allowed solely for the convenience of the CONTRACTOR, shall be borne by the CONTRACTOR, and a credit given to the CITY to deduct the costs of all such inspection and testing from any partial payments otherwise due to the CONTRACTOR.

4.16 Nights, Sunday or Holiday Work:

Except upon specific permission of the OWNER'S REPRESENTATIVE, the CONTRACTOR shall not perform any work on Sundays or on legal State or Municipal holidays in accordance with City of Hollywood Code of Ordinances, Section 21.49, no work between 6:00 p.m. and 8:00 a.m. will be permitted, except in an emergency. All costs of testing and inspection performed during night, Sunday or holiday work shall be borne by the CONTRACTOR.

4.17 Injury or Damage Claims:

Should CITY or CONTRACTOR suffer injury or damage to his person or property because of any error, omission or act of the other party or of any of the other party's employees or agents or others for whose acts the other party is legally liable, claim shall be made in writing to the other party within a reasonable time of the observance of such injury or damage. However, nothing herein shall be deemed to affect the rights, privileges and immunities of Municipalities as are set forth in Section 765.28, Florida Statutes.

ARTICLE 5- CONTRACT DOCUMENTS

5.1 Intent

The Contract Documents comprise the entire Agreement between the CITY and CONTRACTOR concerning the work. The Contract Documents can be altered only by Change Order. The Contract Documents are complementary, what is called for by one is as binding as if called for by all. It is the intent of the Contract Documents that the CONTRACTOR, for due consideration, shall furnish all equipment, material, supervision and labor, (except as may be specifically noted otherwise) required or necessary to complete the work in total accordance with said Documents. It is the intent of the Drawings and Specifications to describe the Project to be constructed in accordance with the Contract Documents. Any Work that may reasonably be inferred from the Drawings or Specifications as being required to produce the intended result shall be supplied whether or not it is specifically called for.

5.2 Order of Precedence of Contract Documents:

In resolving differences resulting from conflicts, errors or discrepancies in any of the Contract Documents, the order of precedence shall be as follows:

1. Contract Agreement
2. Specifications
3. Drawings

Within the Specifications the order of precedence is as follows:

1. Addenda
2. Notice Inviting Bids
3. Instruction to Bidders
4. Proposal
5. General Conditions
6. Supplementary Conditions
7. Technical Specifications
8. Referenced Standard Specifications

With reference to the Drawings the order of precedence is as follows:

1. Figures Govern over Scaled Dimensions
2. Detail Drawings Govern over General Drawings
3. Change Order Drawings Govern over Contract Drawings
4. Contract Drawings Govern over Standard or Shop Drawings

5.3 Reference to Standards:

Any reference to standard Specifications, manuals or codes of any organization or governmental authority shall mean that the latest edition, in effect as of the Bid Advertisement Date.

ARTICLE 6 – PREPARATION OF PROPOSAL

Each bidder must sign his Proposal with his full name and give his address. In cases where a firm or corporation submits a Proposal, the Proposal shall be signed with the full name of each member of the firm name of the officer or officers of the corporation authorized in its bylaws, in addition to the firm or corporation signature, with official corporate seal affixed thereto and the address of such firm or corporation and of such officer thereof must be given. The CONTRACTOR is cautioned that in preparing his bid, a detailed statement should be prepared as a breakdown of the work, which will be required from the successful bidder to be used in preparing requisitions for payment. This form must be set up and prepared in such a manner as to meet with the approval of the OWNER'S REPRESENTATIVE.

ARTICLE 7 – POSTING OF BIDS

7.1 Notice of Intent

Notice of Intent to award or reject bids shall be posted at City Hall with recommendations reflecting the lowest responsible, responsive bidder meeting specifications, terms and conditions.

7.2 Posting

Recommendation and tabulation will be posted by 4:30 p.m. the next workday following the bid date outside the City Clerk's office. The City Hall located at 2600 Hollywood Boulevard, Hollywood, FL 33020.

7.3 Bid Tabulation

The bid tabulation with the recommendation will remain on display for no less than 72 hours. Failure to file a protest within the time prescribed in Section 38.51 of the City Code of Hollywood will forfeit any right to protest.

7.4 Protests

Protests must be made in accordance with Section 38.51 of the Hollywood City Code, which is reproduced herein. Failure to follow the requirements of the Code in making a protest shall bar the protest.

ARTICLE 8 – REJECTION OF IRREGULAR PROPOSALS

The City Commission reserves the right to waive non-material, technical informalities, irregularities, or defects in a Proposal, and to reject any and all bids, to re-bid the Project.

ARTICLE 9 – WITHDRAWAL OF PROPOSALS

No Proposal shall be withdrawn after it is filed unless the Bidder makes his request in writing to the City Manager of the City of Hollywood prior to the time set for opening of bids, and the request for withdrawal is approved by the City of Hollywood Commission. The Proposal may be withdrawn, without penalty, if the City of Hollywood fails to accept it within 60 days after the date fixed for opening bids.

ARTICLE 10 – DISQUALIFICATION OF BIDDERS

Only one Proposal from an individual, firm or partnership, joint venture, or corporation (including a subsidiary or affiliate) under the same or different names will be considered.

Should it appear to the Owner that any Bidder is interested in more than one Proposal for the work contemplated; all Proposals in which such Bidder is interested will be rejected.

Should there be any reasonable grounds for the Commission believing that a collusion or combination exists between bidders, all Proposals may be rejected, at the sole discretion of the City Commission, and all such Bidders, or participants in such combination or collusion will not be considered in the future Proposals for the same work.

No proposal or Bid will be considered unless accompanied by a Proposal guarantee or good faith deposit in the amount and on the form specified in the Invitation for Bids, and/or Advertisements for Bids. No other Bond Form or form of bid security will be acceptable. Failure to comply with this section shall cause a rejection of bids.

ARTICLE 11 – RETURN OF PROPOSAL GUARANTIES

The Proposal guaranties and good faith deposits will be returned within fifteen (15) days following the award of the Contract and that of the successful bidder upon the execution of the Contract.

ARTICLE 12 – EXAMINATION OF DOCUMENTS

The bidder is required to examine the site of the work, and to examine and become familiar with the form of the Proposal, plans, specifications and all other Contract Documents pertaining to the proposed work, and

the submission of a bid shall be sufficient to establish the presumption that the Bidder has investigated the site of the work and is satisfied as to all conditions to be encountered, the character, quantity and quality of the work to be performed and materials furnished in the completion thereof. Requests for interpretation arising out of this Article must be presented in writing at least five (5) days before bid dates to the Project Manager.

ARTICLE 13 – BID BONDS, BONDS AND INSURANCE

13.1 Bid Guarantee:

Bidders may be required to submit a Bid Guarantee in an amount indicated in the NOTICE TO BIDDERS. The Bid Guarantee must be submitted with the Bid or the Bid will be rejected by the City. This Guarantee may be a Certified or Cashier's Check on a solvent National or State Bank transacting business in Broward County, Florida, or a Bid Bond written by a Surety licensed to do business in the State of Florida and having a Resident Agent in the State of Florida.

The Surety must be listed in the United States Department of Treasury's Circular 750 and rated at least "A", Class X in the latest edition of "Best Key Rating Guide" published by A.M. Best & Company.

13.2 Performance and Payment Bond:

CONTRACTOR shall furnish Performance and Payment Bond, in an amount equal to the Contract Price as Security for the faithful performance and payment of the obligations. The Bond or Bonds shall remain in effect one year after the date of final payment or the City may require an additional Bond which shall be conditioned upon the Contractor following written notification by the City will correct any defective or faulty work or materials that appear within one year after final completion of the contract. The Surety must be qualified as specified above in Paragraph 13.1

13.3 Signatures:

All Bonds signed by an Agent must be accompanied by a Certified copy of the Agent's authority to act with said copy having been signed (not typed nor printed) by an Officer of the Surety and carrying the seal of the Surety.

13.4 Insurance Coverage:

Within ten days from Notice of Award the CONTRACTOR shall purchase and maintain such insurance as will protect him from claims set forth below which may arise out of or result from CONTRACTOR'S operations under the Contract, whether such operations by himself or by any Sub-Contractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable:

- A. Claims under Worker's Compensation, Employer's Liability, Disability Benefit and other similar employee benefits acts as required by the "Worker's Compensation Law" of the State of Florida;
- B. Claims for damages because of bodily injury, occupation, sickness or disease, or death of his employees;
- C. Claims for damages because of bodily injury, sickness or disease, or death of any person other than his employees;

- D. Claims for damages insured by usual personal injury liability coverage which are sustained (1) by any person as a result of any offense directly or indirectly related to the employment of such person by the CONTRACTOR, or (2) by any other person;
- E. Claims for damages, other than to the work itself, because of injury to or destruction of tangible property, including loss of use resulting therefrom; and
- F. Claims for damages because of bodily injury or death of any person or property damage arising out of the ownership, maintenance or use of any motor vehicle.
- G. If operations are to be undertaken on or about navigable waters, coverage must be included for the U.S. Longshoremen & Harbor Workers Act and Jones Act.

13.5 Certificates of Insurance:

Certificates of Insurance shall contain a provision that coverages afforded under the policies will not be cancelled or materially modified until at least 30 days prior written notice has been given to the CITY. The City of Hollywood must be named as additional insured on all coverage with the exception of Worker's Compensation, Employer's Liability, Disability Benefit and other similar employee benefit coverage. Policies shall be issued by companies authorized to do business under the Laws of the State of Florida. Policyholders and Financial Ratings must be no less than "A" and Class X respectively in the latest edition of "Best's Key Rating Guide", published by A.M. Best Company. Any SubContractor used by the contractor shall supply such similar insurance required of the contractor. Such certificates shall name the City as Additional Insured on the general liability and auto liability policies.

13.6 Insurance Limits of Liability:

The insurance required by this Article shall be written for no less than the level of liability specified in "Insurance Requirements", Section 1.03 of the Supplementary Conditions, or required by law, whichever is greater. The insurance shall include contractual liability insurance applicable to the CONTRACTOR'S obligations under this contract.

The level required in Section 1.3 of the Supplementary Conditions will not be reduced for any reason.

ARTICLE 14 – AVAILABILITY OF LAND; REFERENCE POINTS

14.1 Rights-of-Way:

Lands or Rights-of-Way for the work to be constructed under the Contract will be provided by the CITY. Nothing contained in the Contract Documents shall be interpreted as giving the CONTRACTOR exclusive occupancy of the lands or Rights-of-Way provided. Any additional lands or Rights-of-Way required for construction operations shall be provided by the CONTRACTOR at his own expense; provided, that the CONTRACTOR shall not enter upon nor use any property not under the control of the CITY until a written Agreement has been executed, and a copy of said Agreement furnished to the OWNER'S REPRESENTATIVE prior to said use; and neither the CITY nor the OWNER'S REPRESENTATIVE shall be liable for any claims or damages resulting from the CONTRACTOR'S unauthorized trespass or use of any such properties.

14.2 Permits

When required by Section 1.6 of the Supplementary Conditions, the CONTRACTOR shall secure, from the agencies having jurisdiction, the necessary permits to create obstructions, to make excavations if required under the Contract, and to otherwise encroach upon Rights-of-Way, and to

present evidence to the OWNER'S REPRESENTATIVE that such permission has been granted, before work is commenced. Regulations and requirements of all agencies concerned shall be strictly adhered to in the performance of the Contract. The enforcement of such requirements under the Contract shall not be made the basis for additional compensation.

14.3 Lines and Grades:

The CONTRACTOR shall furnish all surveying services required to perform all work required under this Contract.

ARTICLE 15 – CONTRACTOR'S RESPONSIBILITIES

15.1 Laws/ Regulations to Be Observed:

The CONTRACTOR shall familiarize himself and comply with all Federal, State, County and CITY laws, by-laws, ordinances or regulations controlling the action or operation of those engaged or employed in the work or affecting material used, and governs himself in accordance with them. He shall indemnify and save harmless the CITY and all of its officers, agents and employees against any claims or liability arising from or based on the violation of any such laws, by-laws, ordinances, regulations, orders or decrees, whether by himself or his employees, agents, or Sub-Contractors.

In accordance with this requirement, it has not been considered necessary to enumerate all wiring, plumbing and other requirements covered by the codes. The CONTRACTOR in making his bid agrees that the requirements of such codes and regulations will be as carefully adhered to by him as if they were specifically set forth in the specifications.

The CONTRACTOR warrants that the products and services supplied to the City of Hollywood shall conform in all respects to the standard set forth in the Occupational Safety and Health Act of 1970, as amended.

15.2 Responsibility for Claims, etc:

In consideration of \$25.00, and other valuable, separate and distinct consideration, the CONTRACTOR shall indemnify and save harmless the CITY and all of its officers, agents and employees and CONSULTANT from all suits, actions, or claims brought because of any injury or damages received or sustained by any person, persons, or property on account of the said CONTRACTORS operations to this Contract during or on account of or in consequence of any neglect in safeguarding the work, or through the use of unacceptable materials in constructing the work, or because of any act or omission by the CONTRACTOR; or on account of, any operations connected with the construction of this Project (including the Warranty Period) or in consequence of any negligence excluding the sole negligence of the City or Consultant, in connection with same, because of any claims or amounts recovered from any infringement of patent, trademark or copyright, or from any claims or amounts arising or recovered under the Worker's Compensation Law or any other laws, and the OWNER'S REPRESENTATIVE may regain monies due the CONTRACTOR and/or hold the Surety and/or the Insurance until such suits, actions or claims for damages or injuries shall have been settled and suitable written evidence to that effect furnished the OWNER'S REPRESENTATIVE. The CONTRACTOR, or his Surety, or his Insurer, shall reimburse the CITY in enforcing the provisions of this Paragraph. These indemnifications shall survive the term of this Contract.

15.3 Guarantee of Payments:

The CONTRACTOR guarantees the payment of all just claims for materials, supplies, tools, labor and other just claims against him, or any Sub-Contractor in connection with this Contract, and his

bond will not be released by final acceptance and payment by the CITY unless all such claims are paid or released.

15.4 Surveys, Permits and Licenses:

The CONTRACTOR shall obtain all required permits and licenses as specified in Section 1.6 of the Supplementary Conditions and by Chapter 3 of the South Florida Building Code. Such permits and licenses, along with any corresponding general and specification conditions and requirements, shall become a part of the contract documents. The CONTRACTOR shall comply with all of the conditions and requirements of said permits and licenses.

Payment for all required permit and license fees shall be in accordance with Section 1.6 of the Supplementary Conditions. The CONTRACTOR shall be responsible for paying any and all fees, penalties, and fines imposed as a result of the CONTRACTOR'S failure to obtain such permits and licenses prior to the commencement of the work.

15.5 Emergencies:

In emergencies affecting the safety or protection of persons or the work or property at the site or adjacent thereto, CONTRACTOR, without special instruction or authorization from OWNER'S REPRESENTATIVE or CITY, is obligated to act to prevent threatened damage, injury or loss. CONTRACTOR shall give OWNER'S REPRESENTATIVE prompt written notice of any significant changes in the work or deviations from the Contract Documents caused thereby.

15.6 Measurements To Be Verified:

Before ordering any material or doing any work, the CONTRACTOR shall verify all measurements at the site and shall be responsible for the correctness of same. No extra charge or compensation will be allowed on account of difference between actual dimensions and the measurements indicated on the drawings; any difference which may be found, shall be submitted to the Consultant for consideration before proceeding with the work.

15.7 Grouping of Data in Specifications:

Titles to divisions and paragraphs in these Contract Documents are introduced merely for convenience and are not to be taken as a correct or complete segregation of the several units of material and labor. No responsibility, either direct or implied, is assumed by the Owner for omission or duplications by the CONTRACTOR or his Sub-Contractors, due to real or alleged error in arrangement of matter in these Contract Documents.

15.8 Substitutes or "Or Equal":

A. Substitutes or "Equal" Materials or Equipment:

Whenever materials or equipment are specified or described in the Contract Documents by using the name of a proprietary item or the name of a particular supplier the naming of the item is intended to establish the type, function and quality required. Unless the name is followed by words indicating that no substitution is permitted, materials or equipment or other Suppliers may be accepted by the OWNER'S REPRESENTATIVE if sufficient information submitted by the CONTRACTOR to allow the OWNER'S REPRESENTATIVE to determine that the material or equipment proposed is equivalent or equal to that named. The OWNER'S REPRESENTATIVE will be allowed a reasonable time within which to evaluate each proposed substitute. The OWNER'S REPRESENTATIVE will be the sole judge of acceptability, and NO SUBSTITUTE WILL BE ORDERED, INSTALLED OR UTILIZED WITHOUT THE OWNER'S REPRESENTATIVE PRIOR WRITTEN ACCEPTANCE which will be evidenced by either a Change Order or an approved set of

Shop Drawings. Requests for review of substitute items of material and equipment will not be accepted by the OWNER'S REPRESENTATIVE from anyone other than the CONTRACTOR. The procedure for review by the OWNER'S REPRESENTATIVE is as follows:

If the CONTRACTOR wishes to furnish or use a substitute item of material or equipment, the CONTRACTOR shall make written application to the OWNER'S REPRESENTATIVE for acceptance thereof, certifying that the proposed substitute will perform adequately the functions and achieve the results called for by the general design, be similar and of equal substance to that specified and be suited to the same use as that specified. In addition, the application shall:

1. State that the evaluation and acceptance of the proposed substitute will not prejudice the CONTRACTOR'S achievement of completion on time.
2. State whether or not acceptance of the substitute for use in the WORK will require a change in any of the Contract Documents to adapt design to the proposed substitute.
3. State whether or not incorporation or use of the substitute in connection with the work is subject to payment of any license fee or royalty.
4. Provide complete substitute identification and description, including manufacturer's and local distributor's name and address, performance and test data, and reference standards.
5. Provide samples, as required by OWNER'S REPRESENTATIVE.
6. Provide name and address of similar projects on which the proposed substitute has been used, and date of installation.
7. Identify all variations of the proposed substitute from that specified.
8. Indicate available maintenance, repair and replacement service.
9. Submit an itemized estimate of all costs that will result directly or indirectly from acceptance of such substitute, including costs of redesign and claims of other CONTRACTORS affected by the resulting change.
10. Provide any additional data about the proposed substitute as the OWNER'S REPRESENTATIVE may require of the CONTRACTOR.

B. Substitute means, method, technique, sequence or procedure of construction:

If a specific means, method, technique, sequence or procedure of construction is indicated in or required by the Contract Documents, the CONTRACTOR may furnish or utilize a substitute means, method, sequence, technique or procedure of construction acceptable to the, OWNER'S REPRESENTATIVE, if the CONTRACTOR submits sufficient information to allow the OWNER'S REPRESENTATIVE to determine that the substitute proposed is equivalent to that indicated or required by the Contract Documents. The procedure for review by the OWNER'S REPRESENTATIVE will be similar to that provided in Paragraph 15.8 A.

C. The CITY may require the CONTRACTOR to furnish at the CONTRACTOR'S expense, a special performance guarantee or other surety with respect to any substitute.

- D. The OWNER'S REPRESENTATIVE will record time required by himself or herself in evaluating substitutions proposed by the CONTRACTOR and in making changes in the Contract Documents occasioned thereby. Whether or not the OWNER'S REPRESENTATIVE accepts a proposed substitute, THE CONTRACTOR SHALL REIMBURSE THE CITY FOR THE CHARGES OF THE OWNER'S REPRESENTATIVE AND THE OWNER'S REPRESENTATIVE'S CONSULTANTS FOR EVALUATING EACH PROPOSED SUBSTITUTE.

15.9 Shop Drawings:

Shop Drawing submittals shall be as follows:

- A. The CONTRACTOR shall submit a sufficient number of copies of each Shop Drawing to enable the OWNER'S REPRESENTATIVE to retain three copies. Resubmissions of Shop Drawings shall be made in the same quantity until final approval is obtained.
- B. The CONTRACTOR shall submit Shop Drawings for all equipment, apparatus, machinery, fixtures, piping, fabricated structures, manufactured articles and structural components as listed in Section 1.5 of the Supplementary Conditions. CONTRACTOR shall also provide for all items so noted in Section 1.5 of the Supplementary Conditions, a Manufacturer's Certified Affidavit that the item supplied complies with the design Specifications.
- C. When required by Section 1.5 of the Supplementary Conditions, Shop Drawings for structural components, electrical or mechanical systems shall be Certified by a Registered OWNER'S REPRESENTATIVE of the discipline involved.
- D. The CONTRACTOR shall thoroughly review and check the Shop Drawings, and each and every copy shall show his approval thereon. If the Shop Drawings show or indicate departures from the Contract requirements, the CONTRACTOR shall make specific mention thereof in his letter of transmittal. Failure to point out such departures shall not relieve the CONTRACTOR from his responsibility to comply with the Drawings and Specifications.
- E. No approval will be given to partial submittals of Shop Drawings for items, which interconnect and/or are interdependent. It is the CONTRACTOR'S responsibility to assemble the Shop Drawings for all such interconnecting and/or interdependent items, check them himself and then make one submittal to the OWNER'S REPRESENTATIVE along with his comments as to compliance, non-compliance, or features requiring special attention.
- F. If catalog sheets or prints of manufacturer's standard drawings are submitted as Shop Drawings, any additional information or changes on such Drawings shall be typewritten or lettered in ink.
- G. The CONTRACTOR shall keep one set of Shop Drawings marked with the OWNER'S REPRESENTATIVE'S approval at the job site at all times.
- H. Where a Shop Drawing or sample is required by the Specifications, no related work shall be commenced until the submittal has been reviewed and approved by the OWNER'S REPRESENTATIVE.
- I. Approval of the Shop Drawings shall constitute approval of the subject matter thereof only, and not of any structure, material, equipment or apparatus shown or indicated. The approval of the Shop Drawings will be general and shall not relieve the CONTRACTOR of responsibility for the accuracy of such Drawings, nor for the proper fitting and construction of the work, nor for the furnishing of materials or work required by the contract and not

indicated on the Drawings. Approval shall not relieve the CONTRACTOR from responsibility for errors or omissions of any sort on the Shop Drawings.

15.10 Personnel:

A. Supervision and Superintendence:

1. The CONTRACTOR shall supervise and direct the work competently and efficiently, devoting such attention thereto and applying such skills and expertise as may be necessary to perform the work in accordance with the Contract Documents. The CONTRACTOR shall be solely responsible for the means, methods, techniques, sequences and procedures of construction, but the CONTRACTOR shall not be solely responsible for the negligence of others in the design or selection of a specific means, method, technique, sequence or procedure of construction which is indicated in and required by the Contract Documents. The CONTRACTOR shall be responsible to see that the finished work complies accurately with the Contract Documents.
2. The CONTRACTOR shall keep on the work at all times during its progress a competent resident Superintendent fluent in both oral and written communication in the English language, who shall not be replaced without prior written notice to the OWNER'S REPRESENTATIVE except under extraordinary circumstances. The Superintendent will be the CONTRACTOR'S representative at the site and shall have authority to act on behalf of the CONTRACTOR. All communications given to the Superintendent shall be as binding as if given to the CONTRACTOR.

B. Workforce:

1. None but skilled workers shall be employed by CONTRACTOR on work requiring special qualifications. When required in writing by the OWNER'S REPRESENTATIVE the CONTRACTOR or any Sub CONTRACTOR shall discharge any person who is, in the opinion of the OWNER'S REPRESENTATIVE, incompetent, disorderly or otherwise unsatisfactory, and shall not again employ such discharged person on the work except with the consent of the OWNER'S REPRESENTATIVE. The Workers are not employed, directly or indirectly, by the City and are not entitled to any benefit, privilege or incident of municipal employment. Such discharge shall not be the basis of any claim for damages against the CITY or any CITY agents and such discharge is covered by Section 15.2 herein.
2. To the extent allowed by law, with respect to all skilled, semi-skilled and unskilled workers employed on the Project under this Contract, preference in employment shall be given to persons residing in Hollywood when such persons are available and qualified to perform the work to which the employment relates. No person shall be employed in violation of the State or National labor Laws. No person under the age of 16 years shall be employed on a Project under the Contract. No person whose age or physical condition is such as to make his employment dangerous to his health or safety or to the health or safety of others shall be employed on the Project under this Contract; provided that this shall not operate against the employment of physically handicapped persons, otherwise employable where such persons may be safely assigned to work which they can ably perform.
3. No discrimination shall be made in the employment of persons on the work by the CONTRACTOR or by any Sub-Contractor under him, because of the race, color, sex, age or religion of such persons, and there shall be full compliance with the provisions of applicable State and Federal laws in this regard.

15.11 Safety and Protection:

A. Federal Safety and Health Regulations:

The CONTRACTOR and Sub-Contractors shall comply with the provisions of the Occupational Safety and Health Standards, promulgated by the Secretary of Labor under the "Occupational Safety and Health Act of 1970", as amended from time to time.

B. Responsibilities:

The CONTRACTOR shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the work. The CONTRACTOR shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:

1. All employees on the work and other persons who may be affected thereby.
2. All the work and all materials or equipment to be incorporated therein, whether in storage on or off the site.
3. Other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures and Services not designated for removal, relocating or replacement in the course of construction.

C. Designated Safety Officer:

The CONTRACTOR shall designate a responsible member of his organization at the site whose duty shall be the prevention of accidents. This person shall be the CONTRACTOR'S Superintendent unless otherwise designated in writing by the CONTRACTOR to the OWNER'S REPRESENTATIVE.

D. Protection of the Work:

Until acceptance of the work by the CITY, it shall be under the charge and in care of the CONTRACTOR and he shall take every necessary precaution against injury or damage to the work by action of the elements or from the execution or from the non-execution of the work. The CONTRACTOR shall rebuild, restore and make good, at his own expense, all injuries or damages to any portion of the work occasioned by any of the above causes before its completion and acceptance.

CONTRACTOR shall take every reasonable precaution to secure and safeguard materials, equipment, supplies and other items used in prosecution of the work including, without limitation, using barriers, locks, storage sheds, and similar measures.

E. Prevailing Wage Rate Ordinance: If the Contract is in excess of \$500,000.00 the following sections shall apply.

1. The rate of wages and fringe benefit payments for all laborers, mechanics, and apprentices shall not be less than those payments for similar skills in classifications of work in a like construction industry as determined by the Secretary of Labor and as published in the Federal Register (latest revision is attached hereto as Exhibit F).
2. All mechanics, laborers, and apprentices, employed or working directly upon the site of the Work shall be paid in accordance with the above referenced wage rates.

CONTRACTOR shall post notice of these provisions at the site of the Work in a prominent place where it can be easily seen by the workers.

3. If the parties cannot agree on the proper classification of a particular class of laborers or mechanics or apprentices to be used, the Owners Representative shall submit the question, together with its recommendation, to the County Administrator for final determination.
4. In the event it is found by the Owners Representative that any laborer or mechanic or apprentice employed by CONTRACTOR, or any subcontractor directly on the site of the work has been or is being paid at a rate of wages less than the rate of wages required, the Owners Representative may (1) by written notice to contractor terminate its right to proceed with the Work or such part of the Work for which there has been a failure to pay said required wages; and (2) prosecute the Work for or portion thereof to completion by contract or otherwise. Whereupon, CONTRACTOR and its sureties shall be liable to county for any excess costs occasioned to county thereby.
5. Sections 23.4.1 through 23.4.4 above shall apply to this Contract to the extent that it is (1) a prime Contract subject to the rules and requirements of the City; or (2) a Subcontract also subject to the rules and requirements of the City under such prime Contract.
6. CONTRACTOR shall maintain payrolls and basic records relating thereto during the course of the Work and shall preserve such records for a period of three (3) years thereafter for all laborers, mechanics, and apprentices working at the site of the Work. Such records shall contain the name and address of each such employee; its current classification; rate of pay (including rates of contributions for, costs assumed to provide, fringe benefits); daily and weekly number of hours worked; deductions made; and actual wages paid.
7. CONTRACTOR shall submit, with each requisition for payment, a signed and sworn "Statement of Compliance" attesting to compliance.
8. The Owners Representative may withhold or cause to be withheld from CONTRACTOR so much of the payments requisitioned as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, watchpersons, and guards employed by CONTRACTOR or any Subcontractor on the Work, the full amount of wages required by the Contract.
9. If CONTRACTOR or any Subcontractor fails to pay any laborer, mechanic, or apprentice employed or working on the site of the Work all or part of the wages required by the Contract, the Owners Representative may, after written notice to CONTRACTOR, take such action as may be necessary to cause suspension of any further payments or advances until such violations have ceased.

F Occupational Health and Safety

1. In compliance with Chapter 442, Florida Statutes, any toxic substance listed in Section 38F-41.03, Florida Administrative Code, delivered as a result of this Project must be accompanied by a Material Safety Data Sheet (MSDS) which may be obtained from the manufacturer. The MSDS must include the following information:
 - 1.1 The chemical name and the common name of the toxic substance, including:

- 1.2 The hazards or other risks in the use of the toxic substance, including:
 - (1) The potential for fire, explosion, corrosion, and reaction;
 - (2) The known acute and chronic health effects of risks from exposure, including the medical conditions which are generally recognized as being aggravated by exposure to the toxic substance; and
 - (3) The primary routes of entry and symptoms of overexposure.
- 1.3 The proper precautions, handling practices, necessary personal protective equipment, and other safety precautions in the use of or exposure to the toxic substances, including appropriate emergency treatment in case of overexposure.
- 1.4 The emergency procedure for spills, fire, disposal, and first aid.
- 1.5 A description in lay terms of the known specific potential health risks posed by the toxic substance intended to alert any person reading this information.
- 1.6 The year and month, if available, that the information was compiled and the name, address, and emergency telephone number of the manufacturer responsible for preparing the information.

G. Hurricane Precautions

1. During such periods of time as are designated by the United States Weather Bureau as being a hurricane warning or alert, the CONTRACTOR, at no costs to the City, shall take all precautions necessary to secure the project site in response to all threatened storm events, regardless of whether the City or CONSULTANT has given notice of same.
2. Compliance with any specific hurricane warning or alert precautions will not constitute additional work.
3. Suspension of the Work caused by a threatened or actual storm event, regardless of whether the City has directed such suspension, will entitle the CONTRACTOR to additional Contract Time as non-compensable, excusable delay, and shall not give rise to a claim for compensable delay.

15.12 Traffic Control, Public Safety and Convenience:

- A. The maintenance of traffic for the project shall be in accordance with the Manual on Uniform Traffic Control Devices (U.S Department of Transportation FHWA).
- B. The CONTRACTOR shall, at all times, conduct his work so as to assure the least possible obstruction to traffic and inconvenience to the general public, and provide adequate protection of persons and property in the vicinity of the work.
- C. WHEN THE NORMAL FLOW OF TRAFFIC WILL BE IMPAIRED OR DISRUPTED IN ANY MANNER ON ANY STREET, THE CONTRACTOR SHALL NOTIFY THE POLICE TRAFFIC SERGEANT AT 921-3610 AT LEAST 24 HOURS IN ADVANCE.
- D. Streets shall not be closed, except when and where directed by the OWNER'S REPRESENTATIVE , and whenever a street is not closed the work must be conducted with

the provision for safe passageway for traffic at all times. The CONTRACTOR shall make all necessary arrangements concerning maintenance of traffic and selection of detours required.

- E. When permission has been granted to close an existing roadway, or portion thereof, the CONTRACTOR shall furnish and erect signs, barricades, lights, flags and other protective devices as necessary subject to the approval of the OWNER'S REPRESENTATIVE. Type I, II, III or Drum Barricades used for delineation at night shall be equipped with steady burn lights. High Intensity flashing arrow boards shall be used if required by the OWNER'S REPRESENTATIVE.
- F. All signs intended to be used during the hours of darkness shall be either reflectorized with a material that has a smooth, sealed outer surface, or illuminated to show approximately the same shape and color day and night. All pavement markings which are to be in place during night hours shall have temporary reflective pavement markers placed in accordance with the MUTCD. Any conflicting reflective pavement markers shall be removed.
- G. During working hours the CONTRACTOR shall furnish flagmen in sufficient numbers to protect and divert the vehicular and pedestrian traffic from working areas closed to traffic, or to protect any new work. Failure to comply with this requirement will result in the OWNER'S REPRESENTATIVE shutting down the work until the CONTRACTOR shall have provided the necessary protection.
- H. No separate payment will be made for such signs, barricades, lights, flags, flagmen or other protective devices as required, with all costs thereof deemed to be included in the prices bid for the various items scheduled in the bid.
- I. Sidewalks, gutters, drains, fire hydrants and private drives shall, insofar as practicable, be kept in condition for their intended uses. While the work is actually going on at any location, as much as half the street width at that location may be barricaded to exclude traffic entirely, but street traffic shall not be obstructed needlessly. Fire hydrants on or adjacent to the work shall be kept accessible to fire apparatus at all times, and no material or obstruction shall be placed within ten feet of any such hydrant.
- J. Construction material stored upon the public street shall be placed so as to cause as little obstruction to the general public as is reasonably possible.

15.13 Use of Explosives:

When the use of explosives is necessary for the prosecution of the work, the CONTRACTOR shall observe the utmost care so as not to endanger life or property, and whenever directed, the number and size of charges shall be limited. All explosives shall be stored in a secure manner and all such storage places shall be marked clearly "DANGEROUS EXPLOSIVES" and shall be in care of a competent watchman at all times. The CONTRACTOR must familiarize himself with all laws and ordinances pertaining thereto, and govern himself and his employees accordingly.

15.14 Loading of Structures:

The CONTRACTOR shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall the CONTRACTOR subject any part of the work or adjacent property to stresses or pressures that will endanger it.

15.15 Concerning Sub-Contractors:

- A. The CONTRACTOR, with his own forces, shall perform no less than 25% of the work as determined by the Contract price. Each Sub-Contractor shall be properly licensed for the type of work he is to perform.
- B. A copy of each Sub-Contract shall be filed promptly with the OWNER'S REPRESENTATIVE upon request. Each Sub-Contract shall contain a reference to the Contract between the CITY and the CONTRACTOR, and the terms and conditions of the Contract shall be made a part of each Sub-Contract. Each Sub-Contract shall provide for cancellation or annulment of same by the CONTRACTOR upon written order of the OWNER'S REPRESENTATIVE if the Sub-Contractor fails to comply with the requirements of this Contract.
- C. The CONTRACTOR shall be responsible to the CITY and OWNER'S REPRESENTATIVE for the acts and omissions of his Sub- CONTRACTORS and their employees to the same extent as he is responsible for the acts and omissions of his own employees. Nothing contained in this Contract shall create any contractual relationship between any Sub-Contractor and the CITY or OWNER'S REPRESENTATIVE nor relieves the CONTRACTOR of any liability or obligation under this Contract.

15.16 Materials and Equipment:

- A. Material for the Work:
 - 1. The CONTRACTOR shall furnish all materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water and sanitary facilities and all other facilities and incidentals necessary for the execution, testing, initial operation and completion of the work.
 - 2. Unless otherwise specified, shown or permitted by the OWNER'S REPRESENTATIVE, all material and equipment incorporated in the work shall be new and of current manufacture. The OWNER'S REPRESENTATIVE may request the CONTRACTOR to furnish manufacturer's certificates to this effect.
 - 3. The OWNER'S REPRESENTATIVE may require any or all materials to be subjected to test by means of samples or otherwise, at production points or after delivery. The CONTRACTOR shall afford such facilities as the OWNER'S REPRESENTATIVE may require for collecting and forwarding samples, which samples shall be furnished by the CONTRACTOR without charge. The CONTRACTOR shall furnish evidence satisfactory to the OWNER'S REPRESENTATIVE that the materials and finished articles have passed the required test prior to the incorporation of such materials and finished articles in the work. Unless otherwise provided, the cost of such inspection and testing shall be as provided in Article 12.2.
 - 4. All packaged manufactured products for use on the work shall be delivered to the work in their original, unopened packages, bearing thereon the manufacturer's name and the brand name of the product.
 - 5. Wherever any product or material is selected to be used on the work, all such products or material shall be of the same brand and manufacture throughout the work.
 - 6. All equipment, tools and machinery used for handling material or executing any part of the work shall be subject to the approval of the OWNER'S REPRESENTATIVE

and shall be maintained in a satisfactory working condition. All equipment utilized on any portion of the work shall be such that no injury to personnel, the work, adjacent property or other objects will result from its use.

7. All materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with the instructions of the applicable manufacturer, fabricator, supplier or distributor, except as otherwise provided in the Contract Documents.

B. Storage of Materials:

1. All materials and equipment including that ordered by the CITY designed for permanent installation in the work shall be properly stored by the CONTRACTOR to insure protection against deterioration of any type. These materials shall be placed as to cause a minimum of inconvenience to other contractors on the work and to the public. The storage piles shall be arranged to facilitate inspections, and any deterioration shall be grounds for rejection.
2. Materials stored in public Rights-of-Way, shall be stored in such a manner so as to be compatible with the Traffic Control requirements set forth in Paragraph 15.12. Materials shall be stored so as not to deny access to public or private property. Stored materials shall be adequately marked with barricades and/or flashing warning lights, where necessary, so as to protect the materials from damage and to protect the public health, safety and welfare.
3. Lawns, grass plots or other private property shall not be used for storage purposes without written permission of the Owner or Lessee of that private property. Should the CONTRACTOR desire to store equipment or materials of any kind on the property of the CITY, he must obtain permission from the OWNER'S REPRESENTATIVE. The CITY reserves the right to order materials to be removed or relocated in such approved storage areas, if necessary.
4. The protection of stored materials shall be the CONTRACTOR'S responsibility and the City of Hollywood shall not be liable for any loss of materials, by theft or otherwise, nor for any damage to the stored materials.

C. Salvage of Materials and Equipment:

The CITY reserves the right to retain title to all soil, sand, stone, gravel, equipment, machinery or any other material that was a part of the structure, site or Right- of-Way and which was developed from excavations or other operations connected with the work. The CONTRACTOR will be permitted to use in the work, without charge, any such material which meets the requirements of the Contract Documents. For that material which the CITY desires to retain the CONTRACTOR shall, at his expense, transfer to a site within the CITY as designated by the OWNER'S REPRESENTATIVE. That material which the CITY does not wish to retain shall be the property of the CONTRACTOR and removed from the site at CONTRACTOR'S expense.

15.17 Temporary Services:

The CONTRACTOR shall provide and maintain at his own expense, all water, power, telephone and sanitary facilities as required to comply with State and/or local Codes and Regulations. If water, including that for testing is required, it is the CONTRACTOR'S responsibility to arrange through the CITY Water Department for a 2" water meter. A deposit to be paid by the CONTRACTOR is required for meter rental and all water shall be purchased at the prevailing rate.

15.18 Review of Records:

The CONTRACTOR shall allow and permit the OWNER'S REPRESENTATIVE or his duly authorized representative to inspect and review all payrolls, records of personnel, conditions of employment, invoice of materials, books of accounts and other relevant data and records pertinent to the CONTRACT and Sub-Contracts.

15.19 Use of Premises:

CONTRACTOR shall confine construction equipment, the storage of materials and equipment and the operations of workmen to areas permitted by law, ordinances, permits or the requirements of the Contract Documents, and shall not unreasonably encumber the premises with construction equipment or other materials or equipment.

15.20 CONTRACTOR Liable and Responsible to the Owner:

The CONTRACTOR shall be held liable by the OWNER for the performance of all the work provided for under this CONTRACT. These specifications make no attempt to fix the scope of the work of any sub-Contractor or the responsibilities of any such Sub-Contractor, it being understood that the CONTRACTOR shall fix the scope of work and responsibilities of the Sub-Contractor.

Any disputes which may arise in this connection between the CONTRACTOR and any Sub-Contractor must be settled between the parties concerned and the OWNER will not undertake, nor be in any way responsible for, the settlement of such disputes.

No Sub-Contractor shall under condition, relieve the CONTRACTOR of his liabilities and obligations to the OWNER under his CONTRACT and the CONTRACTOR shall be solely responsible to the OWNER as provided for herein.

15.21 CONTRACTOR's Daily Reports:

Except where otherwise provided, the CONTRACTOR shall complete a daily report indicating manpower, major equipment, Sub-Contractors, etc., involved in the performance of the work. The daily report shall be completed on forms prepared by the OWNER'S REPRESENTATIVE, and shall be submitted to the OWNER'S REPRESENTATIVE at the conclusion of each work day.

15.22 Record Documents:

The CONTRACTOR shall keep one record copy of all Specifications, Drawings, Addenda, Modifications, Shop Drawings and samples at the site, in good order and annotated to show all changes made during the construction process. These shall be available to OWNER'S REPRESENTATIVE for examination and shall be delivered to OWNER'S REPRESENTATIVE upon completion of the work.

15.23 Cleanliness of the Site:

During the progress of the work, The CONTRACTOR shall keep the premises free from accumulations of waste materials, rubbish and other debris resulting from the work. At the completion of the work the CONTRACTOR shall remove all waste materials, rubbish and debris from and about the premises as well as all tools, appliances, construction equipment and machinery and surplus materials, and shall leave the site clean and ready for occupancy by the CITY. The CONTRACTOR shall restore to their original condition those portions of the site not designated for alteration by the Contract Documents.

15.24 Dust Control:

It shall be the CONTRACTOR'S responsibility to control dust by watering as directed by the OWNER'S REPRESENTATIVE. The water used shall be paid for by the CONTRACTOR. Should the CONTRACTOR fail to control dust to the satisfaction of the OWNER'S REPRESENTATIVE, the CITY will control the dust by whatever means the CITY desires and the CONTRACTOR shall pay all expenses incurred by the CITY associated with the control of the dust.

15.25 Continuing the Work:

The CONTRACTOR shall carry on the work and maintain the Progress Schedule during all disputes or disagreements with the CITY. No work shall be delayed or postponed pending resolution of any disputes or disagreements, except as the CONTRACTOR and the CITY may otherwise agree in writing.

15.26 Indemnification:

The CONTRACTOR shall indemnify and hold harmless the CITY, its officers and employees, from liabilities, damages, losses and costs, including, but not limited to, reasonable attorney's fees, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the CONTRACTOR and persons employed or utilized by the CONTRACTOR in the performance of this Contract. These provisions shall survive the expiration or earlier termination of this Contract. Nothing in this contract shall be construed in any way to affect the sovereign immunity of the CITY or the rights of the CITY as set forth in Florida Statutes 768.28, as amended from time to time.

ARTICLE 16 - CITY'S RESPONSIBILITIES

16.1 Communications:

The CITY shall issue all communications to the CONTRACTOR through the OWNER'S REPRESENTATIVE.

16.2 Furnish Contract Documents:

The CITY shall furnish an appropriate number of Contract Documents to the CONTRACTOR at no cost. Referenced Standard Specifications will not be provided, however, the procurement address and cost, if any, will be stated in the Supplementary Conditions.

16.3 Furnish Right-of-Way:

The CITY shall furnish the necessary land or Right-of-Way on which the work is to be accomplished, and will provide lines and grades as specified in Article 6.

16.4 Timely Delivery of Materials:

The CITY shall be responsible for the timely delivery of any CITY furnished material, equipment or labor such that the CONTRACTOR shall not incur damage solely due to delayed delivery.

16.5 Tests and Inspections:

The CITY'S responsibility with respect to inspections, tests and approvals is set forth in Article 12.

16.6 Payments to CONTRACTOR:

The CITY'S responsibility with respect to making prompt payments to the CONTRACTOR is set forth in Article 13.

16.7 Right to Stop or Suspend Work:

The CITY'S right to stop or suspend work is set forth in Articles 9, 12 and 15 and the City's Right to Terminate Services of the CONTRACTOR is set forth in Article 15.

ARTICLE 17 - CHANGES IN THE WORK/CONTRACT PRICE

17.1 Contract Price:

The Contract Price constitutes the total compensation (subject to authorized adjustments) payable to the CONTRACTOR for performing the work. All duties, responsibilities and obligations assigned to or undertaken by the CONTRACTOR shall be at his expense without change in the Contract Price or Time except as provided in Article 15.5.

17.2 Change Order:

The Contract Price and/or Time may only be changed by a Change Order. All requests for change orders must comply with Section 38.47 of the City Code. A copy of which is attached as Exhibit __ hereto. A FULLY EXECUTED CHANGE ORDER FOR ANY EXTRA WORK MUST EXIST BEFORE SUCH EXTRA WORK IS BEGUN. Any claim for an increase or decrease in the Contract Price shall be based on written notice delivered by the party making the claim to the other party promptly (but in no event later than 15 days) after the occurrence of the event giving rise to the claim and stating the general nature of the claim. Notice of the amount of the claim with supporting data shall be delivered within 30 days after such occurrence (unless more accurate data in support of the claim) and shall be accompanied by claimant's written statement that the amount claimed covers all known amounts (direct, indirect and consequential) to which the claimant is entitled as a result of the occurrence of said event. No claim for an adjustment in the Contract Price will be valid if not submitted in accordance with this Paragraph 17.2. The CITY shall execute appropriate Change Orders prepared by the OWNER'S REPRESENTATIVE or CONTRACTOR covering changes in the work which are required by the CITY, or required because of unforeseen physical conditions or emergencies, or because of uncovering work found to be defective, or where the quantity of the work with respect to any item that is covered by a unit price differs materially and significantly from the quantity of such work indicated in the Contract Documents, or because of any other claim of the CONTRACTOR for a change in the Contract Time or the Contract Price which is recommended by the OWNER'S REPRESENTATIVE.

17.3 Notice of Change:

If notice of any change affecting the general scope of the work or change in the Contract Price is required by the provisions of any Bond to be given to the Surety, it will be CONTRACTOR'S responsibility to so notify the Surety, and the amount of each applicable Bond shall be adjusted accordingly. The CONTRACTOR shall furnish proof of such adjustment to the CITY.

17.4 Payment for Extra Work:

All extra work ordered and performed in accordance with the foregoing, for which there is no price included in the Proposal, will be paid for at the price (mutually agreed upon, in writing, by the CONTRACTOR and the OWNER'S REPRESENTATIVE to be equitable compensation for the work contemplated) stipulated in the OWNER'S REPRESENTATIVE'S written order for such work subject to the requirements of this Contract and applicable laws. However, in the event the CONTRACTOR and the OWNER'S REPRESENTATIVE fail to agree upon an equitable price for any extra work ordered, it shall be performed by using such tools, labor, equipment and materials as may be specified by the OWNER'S REPRESENTATIVE, and will be paid for in the following manner:

- A. For all labor, including a foreman in direct charge of the specified operations, the CONTRACTOR shall receive a sum equal to the current local rate of wages for every hour that the labor is actually engaged in such work, to which shall be added an amount equal to a maximum of 15% of such sum and a total thereof shall be full compensation to the CONTRACTOR for general supervision and for furnishing and repairing small tools and ordinary equipment used in doing the extra work. In addition, the CONTRACTOR shall be paid the actual cost of Social Security Taxes, Surety Bond, Unemployment Insurance, Workmen's Compensation Insurance and CONTRACTOR'S Public Liability and Property Insurance involved in such extra work, based on actual wages paid to such labor.
- B. For all materials used, the CONTRACTOR shall receive the actual cost of such materials, including freight charges as shown by original receipted bills, to which cost shall be added, an amount equal to a maximum of 10% thereof.
- C. For any special machinery or special equipment, including fuel and lubricants therefor, required for the economical performance of extra work, the OWNER'S REPRESENTATIVE shall allow the CONTRACTOR a reasonable rental price, to be agreed upon in writing before such work is begun, for every hour that such special machinery or equipment is used on the work. Rental time will not be allowed while equipment is inoperative due to breakdowns and shall be restricted to the actual time that the equipment is in productive operation on the extra work being performed.

17.5 Records:

The CONTRACTOR'S representative and the OWNER'S REPRESENTATIVE shall compare records of extra work done at the end of the day. Such records shall be made in duplicate upon a form provided for such purpose by the OWNER'S REPRESENTATIVE and shall be signed by both the Inspector and the CONTRACTOR'S representative, one copy being submitted to the OWNER'S REPRESENTATIVE and the other being retained by the CONTRACTOR.

17.6 Cancelled Items and Payments:

The CITY COMMISSION shall have the right to cancel those portions of the Contract relating to the construction of any item provided therein. Such cancellation shall entitle the CONTRACTOR to payment in a fair and equitable amount covering all items of cost incurred by him prior to the date of cancellation or suspension of the work. The CONTRACTOR shall be allowed a profit percentage on the materials used and on construction work actually performed, at the same rates as provided for "Extra Work", but no allowance will be made for anticipated profits. Acceptable materials ordered by the CONTRACTOR or delivered on the work, prior to the date of such cancellation or suspension, shall be purchased from the CONTRACTOR by the CITY at actual cost and shall, thereupon, become the property of the CITY.

17.7 Full Payment:

The Compensation herein provided shall be received and accepted by the CONTRACTOR as payment in full for all extra work done or costs incurred in event of cancellation.

ARTICLE 18 - CHANGES IN THE CONTRACT TIME

18.1 Change Order:

The Contract Time may only be changed by a Change Order. A FULLY EXECUTED CHANGE ORDER MUST EXIST PRIOR TO EXTENSION OR SHORTENING OF THE CONTRACT TIME.

18.2 Notice:

Any claim for an extension or shortening of the Contract Time shall be based on written notice delivered by the party making the claim to the other party promptly (but in no event later than 15 days) after the occurrence of the event giving rise to the claim and stating the general nature of the claim. Notice of the extent of the claim with supporting data shall be delivered within 30 days after such occurrence (unless OWNER'S REPRESENTATIVE allows an additional period of time to ascertain more accurate data in support of the claim) and shall be accompanied by the claimant's written statement that the adjustment claimed is the entire adjustment to which the claimant has reason to believe it is entitled as a result of the occurrence of said event. CONTRACTOR hereby agrees to waive rights to recover any lost time or incurred costs from delays unless CONTRACTOR has given the notice and the supporting data required by this Paragraph 18.2.

18.3 Basis for Extension:

Extensions of time shall be considered only for excusable delays and will be based solely upon the effect of delays to the work as a whole. Extensions of time shall not be granted for delays to the work, unless the CONTRACTOR can clearly demonstrate, through schedule analysis, that the delay to the work as a whole arose in accordance with Article 19.3 or Article 26.1, and that such delays did or will, in fact, delay the progress of work as a whole. Time extensions shall not be allowed for delays to parts of the work that are not on the critical path of the project schedule. Time extensions shall not be granted until all float or contingency time, at the time of the delay, available to absorb specific delays and associated impacts is used. Extensions of time via CONTRACTOR are final and CONTRACTOR may not come back at a later date and time and make any claim associated with the time extension.

18.4 Change of Time Due to Contract Execution Problems:

Refer to Article 3.4 for a decrease in Contract Time when the CONTRACTOR fails to return the correctly executed Contract Documents within the time allowed.

18.5 Change of Time Due to Substitution or Change Order Evaluation:

In rendering a substitution decision and when evaluating a proposed Change Order, the OWNER'S REPRESENTATIVE shall have access to any available float or contingency time. Extensions will only be considered in accordance with Article 18.3.

18.6 Change of Time and Inspection and Testing:

Neither observations by the OWNER'S REPRESENTATIVE, nor inspections, tests or approvals by others, passing or failing, will be cause for consideration of time extension.

18.7 Change of Time and Defective Work:

- A. If WORK is found to be defective, CONTRACTOR shall bear all remedial expenses including any additional costs experienced by CITY due to delays to others performing additional WORK. CONTRACTOR shall further bear the responsibility for maintaining schedule, and will be excluded from a time extension and the recovery of delay damages due to the uncovering.
- B. If the WORK is found to be defective per the Specifications, but the CITY chooses to accept it at its sole discretion, CONTRACTOR shall bear the responsibility for maintaining schedule, and will be excluded from a time extension and the recovery of delay damages due to the uncovering.
- C. If the WORK is suspended because of reasonable belief that it is defective and subsequent investigations and tests by the CITY find that the WORK is not defective or absolve the CONTRACTOR of the responsibility for the non-compliance, CONTRACTOR shall be allowed:
 - 1. An increase in Contract Price to recover the additional costs directly attributable to any uncovering, exposure, testing, inspection and reconstruction.
 - 2. An increase in Contract Time, but no increase in Contract Price as a result of the suspension of work. The only remedy for delay due to a suspension because of reasonable doubt that the work meets specifications will be a time extension pursuant to Article 11.3.

18.8 Liquidated and Consequential Damages:

All time limits stated in the Contract Documents are of the essence of the Contract. The provisions of this Article 18 shall not exclude recovery for damages as indicated in Section 1.09 of the Supplementary Conditions.

ARTICLE 19 - WARRANTY AND GUARANTEE;
TEST AND INSPECTIONS;
CORRECTION, REMOVAL OR ACCEPTANCE OF DEFECTIVE WORK

19.1 Warranty and Guarantee:

The CONTRACTOR warrants and guarantees to the CITY and the OWNER'S REPRESENTATIVE that all work will be in accordance with the Contract Documents and will not be defective. Prompt notice of all defects shall be given to the CONTRACTOR. All defective work, whether or not in place, may be rejected, corrected or accepted as provided in this Article.

19.2 Tests and Inspections:

- A. The CONTRACTOR shall give the OWNER'S REPRESENTATIVE and, when appropriate, the Building Department and other regulatory authorities which have jurisdiction over the work, timely notice of readiness of the work for all required inspections, tests or approvals.
- B. When the Contract Documents, City Ordinances or Regulations, or the Florida Building Code, or the OWNER'S REPRESENTATIVE require any work, (or part thereof) to be specifically inspected, tested or approved, the CITY shall assume full responsibility for and pay all costs in connection with such inspections or tests EXCEPT THAT should said test or inspection fail to pass the CONTRACTOR shall pay all costs associated with the rework and the retesting.

- C. When any other regulatory authority, by virtue of its rules or regulations, requires specific tests or inspections, the CONTRACTOR shall assume full responsibility for and pay all costs in connection with said tests and inspections.
- D. The CONTRACTOR shall also be responsible for and shall pay all costs in connection with any inspection or testing required in connection with the OWNER'S REPRESENTATIVE'S acceptance of a manufacturer, fabricator, supplier or distributor of materials or equipment proposed to be incorporated in the work, or of materials or equipment submitted for approval prior to CONTRACTOR'S purchase thereof for incorporation in the work.
- E. Neither observations by the ENGINEER OWNER'S REPRESENTATIVE nor inspections, tests or approvals by others shall relieve the CONTRACTOR from his obligations to perform the work in accordance with the Contract Documents.

19.3 Uncovering Work:

- A. If any work that is to be inspected, tested or approved is covered without written concurrence of the OWNER'S REPRESENTATIVE, it must, if requested, by the OWNER'S REPRESENTATIVE, be uncovered. Such uncovering and replacement shall be at the CONTRACTOR'S expense.
- B. If the OWNER'S REPRESENTATIVE considers it necessary or advisable that work previously covered with his permission or cognizance be observed, inspected or tested, the CONTRACTOR, at the OWNER'S REPRESENTATIVE'S request, shall uncover, expose or otherwise make available for observation, inspection or testing as the OWNER'S REPRESENTATIVE may require, that portion of the work in question, furnishing all necessary labor, material and equipment. If it is found that such work is defective, the CONTRACTOR shall bear all the expenses of such uncovering, exposure, observation, inspection and testing and of satisfactory reconstruction, including compensation for additional professional services. If, however, such work is not found to be defective the CONTRACTOR shall be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to such uncovering, exposure, observation, inspection, testing and reconstruction if he makes a claim therefore in accordance with Article 10.2 and Article 11.2.

19.4 City May Stop the Work:

If the work is defective, or the CONTRACTOR fails to supply sufficient skilled workmen or suitable materials or equipment, the CITY may order the CONTRACTOR to stop the work, or any portion thereof, until the cause for such order has been eliminated; however, this right of the CITY to stop the work shall not give rise to any duty on the part of the CITY to exercise this right for the benefit of the CONTRACTOR or any other party.

19.5 Correction or Removal of Defective Work:

If required by the OWNER'S REPRESENTATIVE, the CONTRACTOR shall promptly, without cost to the CITY and as specified by the OWNER'S REPRESENTATIVE either correct any defective work, whether or not fabricated, installed or completed, or if the work has been rejected by the OWNER'S REPRESENTATIVE, remove it from the site and replace it with non-defective work.

19.6 One Year Correction Period:

If within one year after the date of Substantial Completion or such longer period of time as may be prescribed by the terms of any applicable special guarantee required by the Contract Documents or by any specific provision of the Contract Documents, any work is found to be defective, the CONTRACTOR shall promptly without cost to the CITY and in accordance with the OWNER'S

REPRESENTATIVE'S written instructions, either correct such defective work, or if it has been rejected by the OWNER'S REPRESENTATIVE remove it from the site and replace it with non-defective work. If the CONTRACTOR does not promptly comply with the terms of such instructions, or in an emergency where delay would cause serious risk of loss or damage, the OWNER'S REPRESENTATIVE may have the defective work corrected or the rejected work removed and replaced, and all direct and indirect costs of such removal and replacement, including compensation for additional professional services, shall be paid by the CONTRACTOR.

19.7 Acceptance of Defective Work:

If instead of requiring correction or removal and replacement of defective work, the OWNER'S REPRESENTATIVE prefers to accept it, he may do so. In such case, if acceptance occurs prior to the OWNER'S REPRESENTATIVE'S recommendation of final payment, a Change Order shall be issued incorporating the necessary revisions in the Contract Documents, including appropriate reduction in the Contract Price; or if the acceptance occurs after such recommendation, an appropriate amount shall be paid by the CONTRACTOR to the CITY.

19.8 City May Correct Defective Work:

If the CONTRACTOR fails within a reasonable time after written notice of the OWNER'S REPRESENTATIVE to proceed to correct and to correct defective work or to remove and replace rejected work as required by the OWNER'S REPRESENTATIVE in accordance with Paragraph 12.5, or if the CONTRACTOR fails to perform the work in accordance with the Contract Documents, (including any requirements of the progress schedule), the CITY may, after seven days' written notice to the CONTRACTOR, correct and remedy any such deficiency. In exercising its rights under this Paragraph the CITY shall proceed expeditiously. To the extent necessary to complete corrective and remedial action, the CITY may exclude the CONTRACTOR from all or part of the site, take possession of all or part of the work, and suspend the CONTRACTOR'S services related thereto, take possession of the CONTRACTOR'S tools, appliances, construction equipment and machinery at the site and incorporate in the work all materials and equipment stored at the site or for which the CITY has paid the CONTRACTOR but which are stored elsewhere. The CONTRACTOR shall allow the CITY, the CITY'S representatives, agents and employees such access to the site as may be necessary to enable the CITY to exercise his rights under this Paragraph. All direct and indirect costs of the CITY in exercising such rights shall be charged against the CONTRACTOR in an amount verified by the OWNER'S REPRESENTATIVE, and a Change Order shall be issued incorporating the necessary revisions in the Contract Documents and a reduction in the Contract Price. Such direct and indirect costs shall include, in particular but without limitations, compensation for additional professional services required and all costs of repair and replacement of work of others destroyed or damaged by correction, removal or replacement of the CONTRACTOR'S defective work. The CONTRACTOR shall not be allowed an extension of the Contract Time because of any delay in performance of the work attributable to the exercise by the CITY of the CITY'S rights hereunder.

ARTICLE 20 - PAYMENTS TO THE CONTRACTOR

20.1 Basis of Payment:

Progress payments shall be based on the aggregate of the unit price amounts listed in the Proposal or in the Schedule of Values which have been incorporated in the work acceptable to the OWNER'S REPRESENTATIVE.

20.2 Unit Price Inclusion:

The unit prices stated in the Proposal include all costs and expenses for materials, labor, tools, equipment, transportation, commissions, patent fees and royalties, removing crossings or other obstructions, protection or maintaining pipes, drains, railroad tracks, buildings, bridges, or other

structures furnishing temporary crossings or bridges, furnishing all supplemental construction stakes, batter boards, templates, common and ordinary labor for handling materials during inspection replacing any property damage, together with any and all costs or expenses for performing and completing the work as specified.

20.3 Schedule of Values:

If a Schedule of Values is required by Section 1.12 of the Supplementary Conditions, it shall be submitted within seven days subsequent to the CONTRACTOR executing and submitting the Documents required of Article 15 of the Instructions to Bidders. The schedules shall be satisfactory in form and substance to the OWNER'S REPRESENTATIVE, and shall include quantity and unit prices aggregating the Contract Price, and shall subdivide the work into component parts in sufficient detail to serve as the basis for progress payments during construction. Upon acceptance of the schedule of values by the OWNER'S REPRESENTATIVE, it shall be incorporated into a form of Application for Payment acceptable to the OWNER'S REPRESENTATIVE.

20.4 Changed Conditions:

It is mutually agreed that due to latent field conditions which can not be foreseen at the time of advertising for bids, adjustments of the Plans to field conditions will be necessary during construction; and, therefore, such changes in the plans shall be recognized as constituting a normal and accepted margin of adjustment not unusual and not involving or permitting any change or modification of unit prices, in which case payment will be made for the revised quantities at the unit price bid in the Proposal.

20.5 Application for Progress Payment:

Prior to 4:30 p.m. on the first working day of the month the CONTRACTOR shall submit to the OWNER'S REPRESENTATIVE for review an Application for Payment form filled out and signed by the CONTRACTOR. The form shall be notarized, and shall cover the work completed as of the date of the application. The Application for Payment shall be accompanied by a "Page 2" laying out the Schedule of Values, and any other supporting documentation as the OWNER'S REPRESENTATIVE may reasonably require.

20.6 Payment for Materials:

If payment is requested on the basis of materials and equipment not incorporated in the work but delivered and suitably stored at the site or at another location agreed to in writing, the Application for Payment shall also be accompanied by such data, satisfactory to The OWNER'S REPRESENTATIVE, as will establish the CITY'S title to the material and equipment and protect the CITY'S interest therein, including applicable insurance.

20.7 Affidavit Required:

All Applications for Payment shall include an Affidavit of the CONTRACTOR stating that all previous progress payments received on account of the work have been applied to discharge in full all of CONTRACTOR'S obligations reflected in prior Applications for Payment. The amount of retainage with respect to progress payments will be 10%.

20.8 CONTRACTOR's Warranty of Title:

The CONTRACTOR warrants and guarantees that title to all work, materials and equipment covered by any Application for Payment whether incorporated in the Project or not, will pass to the CITY at the time of payment free and clear of all liens, claims, security interests and encumbrances (hereinafter in these General Conditions referred to as "Liens").

20.9 Review of Application for Payment:

The OWNER'S REPRESENTATIVE will promptly review the Application for Payment and either approve and submit it for payment or notify the CONTRACTOR of the deficiencies such that the CONTRACTOR may make the necessary corrections and resubmit in time for the month's payment. However, the OWNER'S REPRESENTATIVE may refuse to recommend the whole or any part of any payment if, in his opinion, it would be incorrect to make such representations. He may also refuse to recommend any such payment, or because of subsequently discovered evidence or the results of subsequent inspections or tests, nullify any such payment previously recommended to such extent as may be necessary in the OWNER'S REPRESENTATIVE'S opinion to protect the CITY from loss because:

- A. The work is defective, or completed work has been damaged requiring correction or replacement.
- B. Written claims have been made against the CITY or Liens have been filed in connection with the work.
- C. The Contract Price has been reduced because of Change Order.
- D. The CITY has been required to correct defective work or complete the work in accordance with Section 19.8 of the General Conditions.
- E. The CONTRACTOR'S unsatisfactory prosecution of the work in accordance with the Contract Documents.
- F. The CONTRACTOR'S failure to make payment to Sub-CONTRACTORS, or for labor, materials or equipment.

20.10 Payment to the CONTRACTOR:

Payments are made only on the fifteenth day or first workday thereafter of each month. The City shall pay undisputed sums no later than the time provided by the Prompt Payment Act, Section 218.70, et. Seq., Florida Statutes.

ARTICLE 21 – AS BUILT DRAWINGS AND SURVEY

A marked up set of prints will be kept up to date by the Contractor on the job site at all times. All trades to record any and all variances to the plans as the work progresses. This record will be given to the consultant and/or Owner's Representative at the completion of the work, and properly labeled "As-Built Drawings".

In addition to the "As-Built Drawings", the CONTRACTOR will cause to have prepared by a Surveyor, registered in the State of Florida, a site survey which shall clearly represent all work done under this contract.

This site survey shall show all fences, walls, walks, building(s) and appurtenances, fire hydrant(s), manholes, catch basins, meters, valve boxes, asphalt playing area, parking, drives, curbs, football goal posts, basketball back boards, tennis courts, ball fields, trees and shrubs. Based on the mean sea level datum, elevations to the 0.01 foot will be shown in sufficient number of points to clearly indicate the scope of parking, sidewalks, floor and other improved areas. A benchmark will be set at the base of the flag pole or other area as designated by the Owner's Representative. The grate and invert elevation will be shown for all manholes and catch basins. Elevations to 0.1 foot will be indicated at all changes in ground level, such as ditches, and at intervals not exceeding 100 feet including all adjacent rights-of-way. Replace all permanent corner markers which have been removed. An existing survey shall be furnished to the CONTRACTOR by the Owner. At the

completion of the work, the general CONTRACTOR shall furnish six (6) certified prints and a sepia on 3 Mil Mylars of the survey to the Consultant and/or Owner's Representative.

This is a critical item and final payment will be withheld from the CONTRACTOR until "As-Built Drawings" and survey are furnished to the OWNER'S REPRESENTATIVE.

ARTICLE 22 – TEMPORARY SANITARY SEWERS

The CONTRACTOR shall provide and maintain in a neat and sanitary condition such accommodations for the use of his employees as may be necessary to comply with the regulations of the State Board of Health and the local health department. No nuisance will be permitted. Upon completion of work, such facilities shall be removed and the premises left in a sanitary condition. Reference should be made to supplementary conditions, Paragraph 1.07 of the Contract.

ARTICLE 23 – OWNERSHIP OF DRAWINGS

All drawings, specifications, and copies thereof furnished by the Consultant are the property of the City. All documents shall remain the property of the City and be turned over to the City ...

ARTICLE 24 – REGISTRATION AND CERTIFICATION

In accordance with Chapter 489, of the Florida Statutes, any bid submitted for construction, improvement, remodeling or repair of public buildings shall be accompanied by evidence that the bidder holds an appropriate certificate or registration issued by the Florida Construction Industry Licensing Board.

- A. Bidders are required to include their registration number and certificate number in the designated place on page 3 of the Proposal form.
- B. Bidders who do not have a certification from the Florida Construction Industry Licensing Board shall include on the Proposal form their Broward County certification number.
- C. The definitions below are from Chapter 489 of the Florida Statutes for the bidders information:

CERTIFICATE – Means a certificate of competency issued by the department as provided in this act.

CERTIFIED CONTRACTOR – Means any CONTRACTOR who possesses a certificate of competency issued by the department and who may contract in any jurisdiction in the state without being required to fulfill competency requirements of that jurisdiction.

REGISTRATION – Means registration with the department as provided in this act.

REGISTRATION CONTRACTOR – Means any CONTRACTOR who has registered with the department pursuant to fulfilling the competency requirements in the jurisdiction for which the registration is issued. Registered CONTRACTOR may contract only in these areas.

CERTIFICATION – Means the act of obtaining or holding a certificate of competency from the department as provided in this act.

ARTICLE 25 - SUBSTANTIAL COMPLETION, PARTIAL UTILIZATION, FINAL CLEAN UP, INSPECTION, PAYMENT AND ACCEPTANCE

25.1 Substantial Completion:

When the CONTRACTOR considers the entire work ready for its intended use, the CONTRACTOR shall, in writing to the OWNER'S REPRESENTATIVE, certify that the entire work is substantially complete and request that the OWNER'S REPRESENTATIVE issue a Certificate of Substantial Completion. Within a reasonable time thereafter the CONTRACTOR and the OWNER'S REPRESENTATIVE shall make an inspection of the work to determine the status of completion. If the OWNER'S REPRESENTATIVE does not consider the work substantially complete, the OWNER'S REPRESENTATIVE will notify the CONTRACTOR in writing giving his reasons thereof. If the OWNER'S REPRESENTATIVE considers the work substantially complete, the OWNER'S REPRESENTATIVE will prepare and deliver to the CONTRACTOR a Certificate of Substantial Completion, which shall fix the date of Substantial Completion. There shall be attached to the certificate a Punch List of items to be completed or corrected before final payment. At the time of delivery of the Certificate of Substantial Completion the OWNER'S REPRESENTATIVE will deliver to the CONTRACTOR written notice as to division of responsibilities pending final payment between the CITY and the CONTRACTOR with respect to security, operation, safety, maintenance, heat, Services and insurance, said responsibilities will be binding on the CITY and the CONTRACTOR until final payment. Unless otherwise stated herein or on the Certificate of Substantial Completion, all building, product, equipment, and machinery warranties will commence on the date of Substantial Completion. The CITY shall have the right to exclude the CONTRACTOR from the work after the date of Substantial Completion, but the CITY shall allow the CONTRACTOR reasonable access to complete or correct items on the Punch List.

25.2 Partial Utilization:

Use by the CITY of any finished part of the work which has specifically been identified in the Contract Documents or which the OWNER'S REPRESENTATIVE and the CONTRACTOR agree constitutes a separately functioning and usable part of the work that can be used by the CITY without significant interference with CONTRACTOR'S performance of the remainder of the work, may be accomplished prior to Substantial Completion of all the work subject to the following:

- A. The OWNER'S REPRESENTATIVE at any time may request the CONTRACTOR in writing to permit the CITY to use any such part of the work which the OWNER'S REPRESENTATIVE believes to be ready for its intended use and substantially complete. If the CONTRACTOR agrees, the CONTRACTOR will certify to the OWNER'S REPRESENTATIVE that said part of the work is substantially complete and request the OWNER'S REPRESENTATIVE to issue a Certificate of Substantial Completion for that part of the work. The CONTRACTOR, at any time, may notify the OWNER'S REPRESENTATIVE in writing that the CONTRACTOR considers any such part of the work ready for its intended use and substantially complete and request the OWNER'S REPRESENTATIVE to issue a Certificate of Substantial Completion for the part of the work. Within a reasonable time after either such request, the CONTRACTOR and the OWNER'S REPRESENTATIVE shall make an inspection of that part of the work to determine its status of completion. If the OWNER'S REPRESENTATIVE does not consider that part of the work to be substantially complete, the OWNER'S REPRESENTATIVE will notify the CONTRACTOR in writing giving the reasons therefor. If the OWNER'S REPRESENTATIVE considers that part of the work to be substantially complete, the provisions of Article 14.1 will apply with respect to Certificate of Substantial Completion of that part of the work and the division of responsibility in respect thereof and access thereto.

25.3 Final Clean-Up:

Upon completion of the work and before final inspection shall be made, the CONTRACTOR shall clean and remove from the site, the Right-of-Way and adjacent property, all surplus and discarded materials, rubbish, and temporary structures; restore in an acceptable manner all property, both

public and private, which has been damaged during the prosecution of the work; and shall leave the site and vicinity unobstructed in a neat and presentable condition throughout the entire area or length of the work under Contract. The placing of materials of every character, rubbish, or equipment on the abutting property, with or without the consent of the property owners, shall not constitute the satisfactory disposal. If the work is of such a character as may be done by block or sections, the CONTRACTOR may be required to promptly remove and dispose of accumulated rubbish, debris or surplus materials from blocks or sections as completed or partially completed. No separate payment will be made for final cleaning up and restoration of property, but all costs thereof shall be included in the prices bid for the various scheduled items of work.

25.4 Final Inspection:

Upon written notice from the CONTRACTOR that the entire work or an agreed portion thereof is complete and final clean-up has been completed, the OWNER'S REPRESENTATIVE will make a final inspection with the CONTRACTOR and will notify the CONTRACTOR in writing of all particulars in which this inspection reveals that the work is incomplete or defective. The CONTRACTOR shall immediately take such measures as are necessary to remedy such deficiencies.

25.5 Final Application for Payment:

After the CONTRACTOR has completed all such corrections to the satisfaction of the OWNER'S REPRESENTATIVE and delivered all maintenance and operating instructions, schedules, guarantees, Bonds, certificates of inspection, marked-up record documents (as provided in Article 15.22 of the General Conditions and other documents; all as required by the Contract Documents and after the OWNER'S REPRESENTATIVE has indicated that the work is acceptable (subject to the provisions of Article 25.9) the CONTRACTOR may make Application for Final Payment following the procedure for progress payments. The final Application for Payment shall be accompanied by all documentation called for in the Contract Documents, together with complete and legally effective releases or waivers (satisfactory to the CITY) of all Liens arising out of or filed in connection with the work. In lieu thereof and as approved by the CITY, the CONTRACTOR may furnish receipts or releases in full; an affidavit of the CONTRACTOR that the releases and receipts include all labor, services, material and equipment for which a Lien could be filed, and that all payrolls, material and equipment bills, and other indebtedness connected with the work for which the CITY or the CITY'S property might in any way be responsible, have been paid or otherwise satisfied; and consent of the Surety, if any, to final payment. If any Sub-Contractor or Supplier fails to furnish a release or receipt in full, the CONTRACTOR may furnish a Bond or other collateral satisfactory to the CITY to indemnify the CITY against any Lien.

25.6 Final Payment and Acceptance:

If on the basis of the OWNER'S REPRESENTATIVE'S observation of the work during construction and final inspection, and the OWNER'S REPRESENTATIVE'S review of the final Application for Payment and accompanying documentation, all as required by the Contract Documents, the OWNER'S REPRESENTATIVE is satisfied that the work has been completed and the CONTRACTOR'S other obligations under the Contract Documents have been fulfilled, the OWNER'S REPRESENTATIVE will recommend payment. Thereupon the OWNER'S REPRESENTATIVE will give written notice to the CITY and the CONTRACTOR that the work is acceptable subject to the provisions of Article 14.9.

25.7 Payment of Retainage Without Final Completion:

If through no fault of the CONTRACTOR, final completion of the work is significantly delayed and if the OWNER'S REPRESENTATIVE so confirms, the CITY shall, upon receipt of the CONTRACTOR'S final Application for Payment and recommendation of the OWNER'S REPRESENTATIVE, and without terminating the Agreement, make payment of the balance due for the portion of the work fully completed and accepted. If the remaining balance to be held by the

CITY for work not fully completed or corrected is less than the retainage stipulated in the Agreement and if Bonds have been furnished as required in Article 13.2, the written consent of the Surety to the payment of the balance due for that portion of the work fully completed and accepted shall be submitted by the CONTRACTOR to the OWNER'S REPRESENTATIVE with the application for such payment. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of claims.

25.8 CONTRACTOR's Continuing Obligation:

The CONTRACTOR'S obligation to perform and complete the work in accordance with the Contract Documents shall be absolute. Neither recommendation of any progress or final payment by the OWNER'S REPRESENTATIVE, nor the issuance of a Certificate of Substantial Completion, nor any payment by the CITY to the CONTRACTOR under the Contract Documents, nor any use or occupancy of the work or any part thereof by the CITY nor any act of acceptance by the CITY nor any failure to do so, nor any review and approval of a Shop Drawing or sample submission, nor the issuance of a notice of acceptability by the OWNER'S REPRESENTATIVE pursuant to Article 25.6, nor any correction of defective work by the CITY will constitute an acceptance of work not in accordance with the Contract Documents or a release of the CONTRACTOR'S obligation to perform the work in accordance with the Contract Documents (except as provided in Article 25.9).

25.9 Waiver of Claims:

The making and acceptance of final payment will constitute:

- A. A waiver of all claims by the CITY against the CONTRACTOR, except claims arising from unsettled Liens, from defective work appearing after final inspection pursuant to Article 25.4 or from failure to comply with the Contract Documents or the terms of any special guarantees specified therein; however, it will not constitute a waiver by the CITY of any rights in respect of the CONTRACTOR'S continuing obligations under the Contract Documents.
- B. A waiver of all claims by the CONTRACTOR against the CITY other than those previously made in writing and still unsettled.

ARTICLE 26 - SUSPENSION OF WORK AND TERMINATION

26.1 City May Suspend Work:

The CITY may, at any time and without cause, suspend the work or any portion thereof for a period of not more than 90 days by notice in writing to the CONTRACTOR which will fix the date on which work will be resumed. The CONTRACTOR shall resume the work on the date so fixed. The CONTRACTOR shall be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to any suspension.

26.2 City May Terminate:

- A. Upon the occurrence of any one or more of the following events:
 - 1. If the CONTRACTOR commences a voluntary case under any chapter of the Bankruptcy Code (Title 11, United States Code), as now or hereafter in effect, or if the CONTRACTOR takes any equivalent or similar action by filing a petition or otherwise under any other federal or state law in effect at such time relating to the bankruptcy or insolvency.

2. If a petition is filed against the CONTRACTOR under any chapter of the Bankruptcy Code as now or hereafter in effect at the time of filing, or if a petition is filed seeking any such equivalent or similar relief against the CONTRACTOR under any other federal or state law in effect at the time relating to bankruptcy or insolvency.
 3. If the CONTRACTOR makes a general assignment for the benefit of creditors.
 4. If a trustee, receiver, custodian or agent of the CONTRACTOR is appointed under applicable law or under contract, whose appointment or authority to take charge of property of the CONTRACTOR is for the purpose of enforcing a Lien against such property or for the purpose of general administration of such property for the benefit of the CONTRACTOR'S creditors.
 5. If the CONTRACTOR admits in writing an inability to pay its debts generally as they become due.
 6. If the CONTRACTOR persistently fails to perform the work in accordance with the Contract Documents (including, but not limited to, failure to supply a qualified superintendent or sufficient skilled workers or suitable materials or equipment or failure to adhere to the approved progress schedule revised from time to time).
 7. If the CONTRACTOR disregards laws or regulations of any public body having jurisdiction.
 8. If the CONTRACTOR disregards the authority of the OWNER'S REPRESENTATIVE.
 9. If the CONTRACTOR otherwise violates in any material or substantial way any provisions of the Contract Documents or the exhibits thereto.
- B. The CITY may, after giving the CONTRACTOR and the Surety seven days' written notice and to the extent permitted by laws and regulations, terminate the services of the CONTRACTOR, exclude the CONTRACTOR from the site and take possession of the work and of all the CONTRACTOR'S tools, appliances, construction equipment and machinery at the site and use the same to the full extent they could be used by the CONTRACTOR (without liability to the CONTRACTOR for trespass or conversion), incorporate in the work all materials and equipment stored at the site or for which the CITY has paid the CONTRACTOR but which are stored elsewhere, and finish the work as the CITY may deem expedient. In such case the CONTRACTOR shall not be entitled to receive any further payment until the work is finished. If the unpaid balance of the Contract Price exceeds the direct, indirect and consequential costs of completing the work (including but not limited to fees and charges of OWNER'S Representatives, consultant, architects, engineers, attorneys and other professionals, and court and arbitration costs) such excess will be paid to the CONTRACTOR. If such costs exceed such unpaid balance, the CONTRACTOR, or CONTRACTOR'S Surety, shall pay the difference to the CITY.
- C. Where the CONTRACTOR'S services have been so terminated by the CITY, the CITY alone shall determine the scope and description of the work to be completed and the method and schedule for completing it.
- D. Where the CONTRACTOR'S services have been so terminated by the CITY the termination will not affect any rights or remedies of the CITY against the CONTRACTOR then existing or which may thereafter accrue. Any retention or payment of moneys due the CONTRACTOR by the CITY will not release the CONTRACTOR from liability.

- E. Upon seven days' written notice to the CONTRACTOR the CITY may, without cause, for convenience, and without prejudice to any other right or remedy, elect to abandon the work and terminate the Contract. In such case the CONTRACTOR shall be paid for all work executed and any expense sustained plus reasonable termination expenses, which will include, but not be limited to, direct, indirect and consequential costs (including, but not limited to, fees and charges of OWNER'S REPRESENTATIVE, architects, attorneys and other professionals and court and arbitration costs).

26.3 CONTRACTOR May Stop Work or Terminate:

If through no act or fault of the CONTRACTOR, the work is suspended for a period of more than 90 days by the CITY or under an order of court or other public authority, or the CITY fails for 60 days to pay the CONTRACTOR any sum finally determined to be due, then the CONTRACTOR may, upon seven days' written notice to the CITY terminate the Contract and recover from the CITY payment for all work executed and any expense sustained plus reasonable termination expenses. In addition and in lieu of terminating the Contract, if the CITY has failed to make any payment as aforesaid, the CONTRACTOR may upon seven days' written notice to the CITY stop the work until payment of all amounts then due are paid. The provisions of this paragraph shall not relieve the CONTRACTOR of the obligations under Paragraph 15.25 to carry on the work in accordance with the progress schedule and without delay during disputes and disagreements with the CITY.

26.4 Definition:

For purpose of Article 26, CITY means the City Manager or his designee.



**CITY OF HOLLYWOOD
DEPARTMENT OF PUBLIC WORKS
ENGINEERING & ARCHITECTURAL SERVICES
DIVISION**

SUPPLEMENTARY CONDITIONS

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**CITY OF HOLLYWOOD
DEPARTMENT OF PUBLIC WORKS
ENGINEERING & ARCHITECTURAL SERVICES
DIVISION**

SUPPLEMENTARY CONDITIONS

PART – 1 - GENERAL

1.01 SCOPE OF WORK

- A. The intent of this contract is to provide the for the construction of new alley ways as specified in the plans including excavation, subgrade stabilization, limerock base and asphalt installation.
- B. The intent of this contract is also to provide for the construction of new concrete sidewalks as specified in the plans.
- C. All labor, materials, equipment and services necessary to complete the work shall be provided. The bidder is advised to visit the job sites to familiarize himself with the existing conditions and/or any difficulties, which may arise.
- D. Questions prior to Bid Opening shall be directed to Clarissa Ip, P.E or Frank Leon, P.E. City of Hollywood Engineering Division, (954) 921-3900.
- E. The Davis Bacon Act relating to the employment of skilled or unskilled workers prevails and wage rates reflected in the General Decision FL 130262 or any succeeding General Decision must be followed.

1.02 TIME AND WORK RESTRAINTS

- A. Contractor's Use of Premises: During construction, contractor's use of premises is limited only by Owner's right to perform work or employ other contractors on portions of Project and as follows:
 - 1. Contractor to coordinate Work Plan and hours of operations with Owner and must obtain Owner's approval prior to commencing Work.

- B. The estimated project schedule is provided below for informational purposes only:

Notice to Bidders:	Monday, September 15, 2014
Pre-Bid Meeting:	Friday, September 26, 2014 @ 10:00 am City Hall, 2600 Hollywood Boulevard Room 308, Engineering Conference Room
Bid Opening:	Tuesday, October 14, 2014 @ 10:00 am
Contract Awarded by City Commission Notice of Award:	Wednesday, November 5, 2014
Contract Execution/ Notice to Proceed:	Monday, November 24, 2014
Substantial Completion:	Friday, February 13, 2015
Contractual Completion:	Monday, February 23, 2015

- C. The date of Substantial Completion of the project is the date when the construction is sufficiently completed in accordance with the contract documents, as modified by any change orders agreed to by the parties, so that the City of Hollywood can occupy or utilize the project for the use and purpose for which it was intended.

1.03 INSURANCE REQUIREMENTS:

All insurance policies shall be issued by companies authorized to do business under the laws of the State of Florida and satisfactory to the Owner. All companies shall have a Florida resident agent and be rated a minimum A-VI, as per A.M. Best Company's Key Rating Guide, latest edition.

The CONTRACTOR shall furnish certificates of insurance to the Risk Management Director for review and approval prior to the execution of this agreement. The Certificates shall clearly indicate that the CONTRACTOR has obtained insurance of the type, amount and classification required by these provisions, in excess of any pending claims at the time of contract award to the CONTRACTOR. No failure to renew, material change or cancellation of, the insurance shall be effective without a 30-day prior written notice to and approval by the Owner. The insurance required by Article 13 of the General Conditions shall be as follows:

- A. Comprehensive General Liability:

Prior to the commencement of work governed by this contract, the CONTRACTOR shall obtain General Liability Insurance. Coverage shall be maintained throughout the life of the contract and include, as a minimum:

1. Premises Operations
2. Products and Completed Operations
3. Blanket Contractual Liability
4. Personal Injury Liability
5. Expanded Definition of Property Damage

The minimum limits acceptable shall be:

\$500,000.00 Combined Single Limit (CSL)

If split limits are provided, the minimum limits acceptable shall be:

\$250,000.00 per Person
\$500,000.00 per Occurrence
\$50,000.00 Property Damage

An Occurrence Form policy is preferred. If coverage is provided on a Claims Made policy, its provisions should include coverage for claims filed on or after the effective date of this contract. In addition, the period for which claims may be reported should extend for a minimum of twelve (12) months following the acceptance of work by the CITY. The CITY of Hollywood shall be named as Additional Insured on all policies issued to satisfy the above requirements.

B. Comprehensive Automobile Liability:

Recognizing that the work governed by this contract requires the use of vehicles, the CONTRACTOR, prior to the commencement of work, shall obtain Vehicle Liability Insurance. Coverage shall be maintained throughout the life of the contract and include, as a minimum, liability coverage for:

Owned, Non-Owned, and Hired Vehicles

The minimum limits acceptable shall be:

\$300,000.00 Combined Single Limit (CSL)

If split limits are provided, the minimum limits acceptable shall be:

\$100,000.00 per Person
\$300,000.00 per Occurrence
\$50,000.00 Property Damage

The CITY of Hollywood shall be named as Additional Insured on all policies issued to satisfy the above requirements.

C. Worker's Compensation Insurance:

Prior to the commencement of work governed by this contract, the CONTRACTOR shall obtain Workers' Compensation Insurance with limits sufficient to respond to the applicable state statutes.

In addition, the CONTRACTOR shall obtain Employers' Liability Insurance with limits of not less than:

\$500,000.00 Bodily Injury by Accident
\$500,000.00 Bodily Injury by Disease, policy limits
\$500,000.00 Bodily Injury by Disease, each employee

Coverage shall be maintained throughout the entire term of the contract.

Coverage shall be provided by a company or companies authorized to transact business in the state of Florida and the company or companies must maintain a minimum rating of A-VI, as assigned by the A.M. Best Company.

If the CONTRACTOR has been approved by the Florida's Department of Labor, as an authorized self-insurer, the CITY shall recognize and honor the CONTRACTOR's status. The CONTRACTOR may be required to submit a Letter of Authorization issued by the Department of Labor and a Certificate of Insurance, providing details on the CONTRACTOR's Excess Insurance Program.

If the CONTRACTOR participates in a self-insurance fund, a Certificate of Insurance will be required. In addition, the CONTRACTOR may be required to submit updated financial statements from the fund upon request from the CITY.

D. Builder's Risk Insurance Requirements:

The CONTRACTOR shall be required to purchase and maintain, throughout the life of the contract, and until the project is accepted by the CITY, Builder's Risk Insurance on an All Risk of Loss form. Coverage shall include:

Theft	Aircraft
Windstorm	Vehicles
Hail	Smoke
Explosion	Fire
Riot	Collapse
Civil Commotion	Flood

The policy limits shall be no less than the amount of the finished project and coverage shall be provided on a completed value basis. Property located on the construction premises, which is intended to become a permanent part of the building, shall be included as property covered. The policy shall be endorsed permitting the CITY to occupy the building prior to completion without effecting the coverage. The CITY of Hollywood shall be named as Additional Insured and Loss Payee. The Builder's Risk Insurance shall be provided on or before the execution of the Phase II agreement.

E. No Subcontractor shall commence work until a similar such insurance has been obtained and approved by the CITY. Any SubContractor used by the contractor shall supply such similar insurance required of the contractor. Such certificates shall name the City as Additional Insured on the general liability and auto liability policies.

1.04 REFERENCED STANDARDS

The following standards may be referenced in the specifications and/or on the drawings for this project. It is the responsibility of the CONTRACTOR to verify in the documents exactly which standards are applicable to this Project.

A.	1.	AASHTO	6.	BCTED	11.	OSHA
	2.	ANSI	7.	FDOT	12.	SFBC
	3.	ASCE	8.	NEC	13.	UL
	4.	ASTM	9.	NEMA		
	5.	AWPA	10.	NFPA		

1.05 REQUIRED SHOP DRAWINGS

- A. Submit a preliminary schedule of shop drawing submittals as required in Paragraph 4.2 of the General Conditions and as required indicated in the drawings and specifications. The following shop drawings, illustrations, and samples are required.

<u>Section</u>	<u>Item</u>
02223	Limerock Base
02507	Prime and Tack Coats
02513	Milling of Existing Asphalt Pavement
02514	Asphaltic Concrete Pavement
02528	Concrete Curb & Gutter
02530	Concrete Sidewalks and Ramps
02848	Pavement Markings
02850	Traffic Signs
02920	Chain Link Fences and Gates
02950	Sodding

- B. The CONTRACTOR shall submit five (5) copies minimum of each shop drawings to enable the PROJECT MANAGER to retain three (3) copies. Resubmissions of shop designs shall be made in the same quantity until final approval is obtained.

1.06 REQUIRED PERMITS AND NOTIFICATIONS

- A. The CONTRACTOR shall comply with all state, county and local laws, regulations and ordinances applicable to this work, including all permit provisions and required testing.
- B. The CONTRACTOR and Subcontractors must obtain the standard Building Department Permits as may be required by the City of Hollywood Building Department for any work covered under this Contract. The CONTRACTOR or Subcontractors shall be responsible for obtaining all inspections required under Section 305 of the latest Broward Edition of the South Florida Building Code.
- C. The City of Hollywood will pay all permit fees including any Federal, State and County surcharges applicable at the time that the permit is issued. In instances where the City of Hollywood has obtained permits from Broward County Traffic Engineering Division (BCTED), Broward County Department of Planning & Environmental Protection (DPEP) and/or South Florida Water Management District (SFWMD) the CONTRACTOR shall comply with permit conditions.
- D. The CONTRACTOR is required to notify all utility companies and call Sunshine at 1-800-432-4770, a minimum of forty-eight (48) hours prior to any excavation for location of existing underground facilities.
- E. The CONTRACTOR is required to notify the Police Traffic Sergeant at 967-4572 when the normal flow of traffic on any street will be disrupted in any manner.
- F. The CONTRACTOR is required to notify the Public Works Department at (954) 967-4526 for location of all electrical facilities on City properties.

1.07 TEMPORARY SERVICES AND FACILITIES

- A. The CONTRACTOR shall make all arrangements for and furnish at his expense, all electricity, water, sanitary facilities and Services necessary for construction purposes.

- B. If water is required, it is the CONTRACTOR's responsibility to arrange through the City Water Department for a two (2") inch water meter. A deposit to be paid by the CONTRACTOR is required for meter rental and all water shall be purchased at the prevailing rate.

1.08 LINES AND GRADES

- A. The CONTRACTOR shall be responsible for and shall furnish all survey work required to locate and install all proposed facilities. The information on existing survey reference points will be provided to the CONTRACTOR by the PROJECT MANAGER. The CONTRACTOR shall provide as built drawings showing the exact location of all items installed including underground, upon completion of the work and prior to final payment.
- B. All work under this Contract shall be constructed in accordance with the lines and grades shown on the Contract Drawings or as directed by the PROJECT MANAGER. Elevations of existing ground, structures and appurtenances are believed to be reasonably correct but are not guaranteed to be absolute and therefore are presented only as an approximation. Any error or apparent discrepancy in the data shown or omissions of data required for accurately accomplishing the stake-out survey shall be referred immediately to the PROJECT MANAGER for interpretation or correction.
- C. All survey work for construction control purposes shall be made by the CONTRACTOR at his expense.
- D. The CONTRACTOR shall establish all base lines for the location of the principal component parts of the work together with bench marks and batter boards adjacent to the work. Based upon the information provided by the Contract Drawings, the CONTRACTOR shall develop and make all detail surveys necessary for construction. The CITY will furnish information and location of existing bench marks.
- E. The CONTRACTOR shall have the responsibility to carefully preserve the bench marks, reference points and stakes. In case of destruction thereof by the CONTRACTOR or resulting from his/her negligence, he/she shall be held liable for any expense and damage resulting therefrom and shall be responsible for any mistakes that may be caused by the necessary loss or disturbance of such bench marks, reference points and stakes.
- F. Existing or new control points, property markers, and monuments that will be established or are destroyed during the normal causes of construction shall be re-established by the CONTRACTOR; and all reference ties recorded therefore shall be furnished to the PROJECT MANAGER. All computations necessary to establish the exact position of the work shall be made and preserved by the CONTRACTOR.
- G. The PROJECT MANAGER may check all or any portion of the work and the CONTRACTOR shall afford all necessary assistance to the PROJECT MANAGER in carrying out such checks. Any necessary corrections to the work shall be performed immediately by the CONTRACTOR of any responsibilities for the accuracy or completeness of this work.

1.09 LIQUIDATED DAMAGES

- A. In as much as the actual damages sustained by the CITY as a result of the CONTRACTOR's failure to timely complete his obligations under the contract cannot be readily ascertained, the CONTRACTOR shall apply to the CITY, as damages for non-completion of the work within the time stipulated for its completion, according to the following

tables, which sums are hereby agreed upon, fixed and determined by the parties hereto as liquidated damages that the CITY will suffer by reason of such default and shall not be considered a penalty.

Liquidated Damages: For each calendar day of delay that the project is unavailable for Beneficial Occupancy:

Projects up to	\$99,999	\$200.00 per calendar day
Projects from	\$100,000 to \$299,999	\$300.00 per calendar day
Projects from	\$300,000 to \$599,999	\$400.00 per calendar day
Projects from	\$600,000 to \$999,999	\$500.00 per calendar day
Projects from	\$1,000,000	\$600.00 per calendar day

For each consecutive calendar day that the correction for all items on the punchlist remain incomplete after the date established for Final Completion, the Contractor and his sureties shall be liable for and shall pay to the Owner stipulated as fixed, agreed and additional liquidated damages in accordance with the following schedule.

Projects up to	\$99,999	\$100.00 per calendar day
Projects from	\$100,000 to \$299,999	\$150.00 per calendar day
Projects from	\$300,000 to \$599,999	\$200.00 per calendar day
Projects from	\$600,000 to \$999,999	\$250.00 per calendar day
Projects from	\$1,000,000	\$300.00 per calendar day

- B. The CITY is hereby authorized to deduct the sum described in Section 1.09 A. from the monies which may be due or become due to the CONTRACTOR for the work under this contract.
- C. Correction of work not complying with plans or specifications shall not be considered as grounds for a time extension

1.10 PROJECT CLOSEOUT

- A. The CONTRACTOR, prior to requesting final payment shall obtain and submit the following items to the PROJECT MANAGER:
 - 1. Written Guarantees
 - 2. Four (4) sets of record drawings/documents (if applicable) signed and sealed by a professional surveyor showing exact locations of all items of work installed under this contract. In addition, record drawings shall be submitted on an AutoCad (version 14) electronic disk. The Contractor shall be held fully responsible for costs incurred by the CITY due to erroneous information supplied on the record drawings submitted. Record drawings shall be provided for: paving, drainage, water, sewer, electrical, irrigation, landscaping, and all other improvements.
 - 3. Release from all parties who are entitled to claims again the subject project, property or improvement, pursuant to the provisions of law.
 - 4. A Certificate of Occupancy or Certificate of Completion (if applicable) as issued by the City of Hollywood Building Department showing that all Building Department inspections have been satisfactorily performed
- B. The CONTRACTOR shall comply with the maintenance and guarantee requirements obtained in Article 19 of the General Conditions.

- C. The Contractor shall make all repairs and replacements promptly upon the receipt of a written order from the CITY. If the CONTRACTOR fails to make such repairs or replacements promptly, the CITY reserves the right to do the work and the CONTRACTOR and his surety shall be liable to the CITY for the cost thereof.

1.11 PROGRESS SCHEDULE

- A. In accordance with Article 4.2 of the General Conditions, the CONTRACTOR shall, prior to commencing work, submit to the PROJECT MANAGER for approval a detailed Sequence of Construction showing the sequence in which the various work elements will be performed and showing conformance to the restrictions and requirements below.
- B. The CONTRACTOR must complete all driveway restoration work, apron restoration work and sodding within two (2) weeks after the concrete for the respective sidewalk has been placed.
- C. The progress schedule shall be updated and submitted every month during the course of the project. The pay request shall not be considered complete until an updated schedule is submitted. The Engineer reserves the right to withhold payment from a pay request until an updated Progress Schedule is submitted and approved.

1.12 SCHEDULE OF VALUES

- A. In accordance with Article 4.2 of the General Conditions the CONTRACTOR shall submit, with the estimated construction progress schedule, on suitable forms, a detailed estimate giving a complete breakdown of the Contract Price. The detailed estimate shall include the price for material, labor and other costs for various units of work in sufficient detail to correspondence with the contemplated construction operations. The schedule shall include all subcontracts and major items of equipment included in the Contract. The detailed estimate will be used only for determining the basis of monthly payment and will not be considered as establishing a basis for additions to or deductions from the Contract Price.

1.13 PROJECT AREA SAFETY

- A. The CONTRACTOR shall give special attention to the protection and welfare of the Public and City of Hollywood personnel who will be utilizing the sidewalk. Any hazardous areas shall be adequately marked and barricaded.

1.14 PREVAILING RATE OF WAGES AND FRINGE BENEFITS

- A. The CONTRACTOR shall be responsible for ensuring payment of the rate of wages and fringe benefits, or cash equivalent, for all laborers, mechanics and apprentices employed by them or their SUBCONTRACTORS on the work covered by this contract which shall be not less than the prevailing rate of wages and fringe benefits payment or cash equivalent for similar skills or classifications of work as established by the General Wage Decision by the United States Department of Labor for Broward County, Florida that is in effect prior to the date the CITY issued the invitation for bids for this project. If the General Wage Decision fails to provide for a fringe benefit rate for any worker classification, then the fringe benefit rate applicable to such worker classification shall be the fringe benefit rate that has a basic wage rate closest in dollar amount to the work classification for which no fringe benefit rate has been provided.
- B. Upon commencement of work, the CONTRACTOR and all of their SUB-CONTRACTORS shall post a notice in a prominent place at the work site stating the requirements of this section.
- C. If any questions should arise concerning the applications of this Section, which are not specifically addressed, the CITY may, but is not required to, rely on rules, regulations,

practices, administrative rulings and court decisions governing applications of the Davis-Bacon Act.

- D. CONTRACTOR and SUBCONTRACTORS shall submit to the CITY on a regular basis, but not less than monthly, payroll sheets, which have been certified under oath by CONTRACTOR and/or SUBCONTRACTORS as to their accuracy and compliance with the provisions of this Section. The certified payroll sheets shall contain the following: name and address of each employee; his/her current classification; rate of pay (including rates of contributions for, or costs assumed to provide, fringe benefits); daily and weekly number of hours worked; deductions made; and actual wages paid. Such records shall be maintained by the CONTRACTOR and his/her SUBCONTRACTORS for a period of at least three (3) years following completion of the work.
- E. The CITY may withhold, or cause to be withheld from the CONTRACTOR, so much of any requisitioned payment as may be considered necessary to pay laborers, mechanics and apprentices the full amount of wages required by this section. The CITY, or its designee, may enter on the job site and conduct such inquiries of the CONTRACTOR'S workers and his/her SUBCONTRACTOR'S workers to determine whether this section is being complied with. If the CONTRACTOR or his/her SUBCONTRACTOR fails to pay any laborers, mechanics or apprentices employed or working on the job site all or part of the wages required by this section, then the CITY may, after written notice to the CONTRACTOR, take such action as may be necessary to cause suspension of any further payments or advances until such violations have been corrected. If the violations are not corrected, the CITY may terminate the CONTRACTOR'S right to proceed with the work or such part of the work for which there has been a failure to pay the required wages and take such steps as are necessary to complete the work, whereupon the CONTRACTOR and its sureties shall be liable to the CITY for all excess costs incurred by the CITY.
- F. The CONTRACTOR shall insert in any subcontracts such language as is necessary to require all of their SUBCONTRACTORS to comply with the requirements of this section. The CONTRACTOR shall be responsible for noncompliance by any of their SUBCONTRACTORS. This section shall be deemed part of any contract entered into between the CONTRACTOR and any of their SUBCONTRACTORS.
 - 1. The threshold dollar amount for construction contracts subject to prevailing wage and fringe benefit payments, pursuant to Section 38.52 of "Code of Ordinances", is \$500,000.00 (Five-hundred-thousand Dollars).
 - 2. CONTRACTOR and SUBCONTRACTORS shall comply with Section 38.52 of the Code of Ordinances titled "Prevailing Rate of Wages and Fringe Benefits on City Construction Contracts" for contracts in the amount of \$500,000.00 and over.

1.15 BASIS FOR PAYMENT/QUANTITIES IN THE PROPOSAL:

- A. Quantities listed in the proposal are approximate and subject to variance. Such quantities are to be used by the OWNER for comparison only. Payment for items with unit prices shall be for the measured amount of such items incorporated by the CONTRACTOR in the completed work and accepted by the PROJECT MANAGER.
- B. The bidder shall not plead misunderstanding or deception because such listed quantities do not correspond with actual quantities. It is understood that the quantities may be increased or decreased in accordance with provisions of the General Conditions.

1.16 CONTRACT EXTENSION:

- A. The successful bidder shall be given the option of accepting a one year extension of the Contract if the City finds it to its benefit to offer one. Extension of this Contract would require

that work be performed at the unit prices shown in the Proposal, or at mutually agreed upon adjustments in the unit prices. The City may be willing to allow cost adjustments to the contractor's unit rates, as outlined below, if price increases occur in the industry. Extension of this Contract would be subject to the appropriation of funds by the City for the work.

- B. Costs for any extension year shall be subject to an adjustment only if increases occur in the industry. However, unless very unusual and significant changes have occurred in the industry, such increases shall not exceed 5% per year or, whichever is less, the latest yearly percentage increase in the All Urban Consumers Price Index (CPU-U) (National) as published by the Bureau of Labor Statistics, U.S. Department of Labor. The yearly increase, or decrease in the CPI shall be the latest index published and available ninety (90) days prior to the end of the contract year then in effect compared to the index for the same month one year prior. Any requested cost increase shall be fully documented and submitted to the City at least ninety (90) days prior to the contract anniversary date. Any approved cost adjustments shall become effective upon the anniversary date of the contract. In the event the CPI or industry costs decline, the City shall have the right to receive from the Contractor a reasonable reduction in costs that reflect such cost changes in the industry.

1.17 PROJECT COORDINATION:

- A. The CONTRACTOR or a representative shall attend project coordination meetings as deemed necessary by the Project Manager.

1.18 PRE-CONSTRUCTION PHOTOGRAPHIC RECORD:

- A. For certain projects, and at certain locations, a pre-construction photographic record may be needed. The CONTRACTOR shall verify the applicability of this requirement with the PROJECT MANAGER.

1.19 SITE CONDITIONS AND SUBSURFACE INVESTIGATION:

- A. The CONTRACTOR shall be responsible for having determined to his satisfaction, prior to the submission of his bid, the nature of the work, subsurface soil conditions, the character and quality of the substrate, the types and quantity of materials to be encountered, the nature of the ground water conditions, the character of equipment and facilities needed preliminary to and during the execution of the work, the general and local conditions and all other matters which can in any way affect the work under this contract. The prices established for the work to be done will reflect all costs pertaining to the work. Any claims for extras based on substrate or ground water table conditions will not be allowed.
- B. If applicable, soil boring logs will be provided in the Appendix and are for information only. The CITY makes no guarantees as to their accuracy and is not responsible for assumptions made by the CONTRACTOR based upon the information.

1.20 CONTRACTORS RESPONSIBILITY FOR MATERIAL AND STORAGE:

- A. The CONTRACTOR shall be responsible for all materials furnished by him. All such material which is defective in manufacture or has been damaged in transit or has been damaged after delivery shall be replaced by the CONTRACTOR at his expense.
- B. The CONTRACTOR shall be responsible for the safe storage of material furnished to or by him, and accepted by him, until it has been incorporated in the complete The

CONTRACTOR shall be responsible for the safe storage of material furnished to or by him, and accepted by him, until it has been incorporated in the completed project.

- C. The CONTRACTOR shall be responsible for the securing of any facilities that may be required for material and equipment storage on the project.

1.21 DUST CONTROL:

- A. CONTRACTOR shall provide to the PROJECT MANAGER for approval, a method of controlling and preventing the spread of dust to occupied premises and vehicles parked along the work area.
- B. The use of public streets and alleys shall be such as to provide a minimum of inconvenience to the public and to other traffic. Any earth or other excavated materials spilled from trucks shall be removed immediately by the CONTRACTOR and the streets cleaned to the satisfaction of the ENGINEER. The walks, roadways, temporary pavement, etc. shall be swept clean at the end of each day.

1.22 GUARANTEES:

- A. Written guarantees shown below shall be provided to the CITY. The guarantee period shall begin the day the project is accepted as complete by the PROJECT MANAGER. Final payment will not be released until all the guarantees have been received in writing, properly signed and executed.

1. CONTRACTOR'S GUARANTEE:

- a. The CONTRACTOR shall furnish a written one (1) year guarantee on all labor and materials furnished by him except stated otherwise. No costs will be borne by the CITY for correcting defective workmanship or materials.
- b. The landscape guarantee shall be for a minimum of 180 days.

1.23 SUBSTITUTIONS - GENERAL:

- A. After the execution of the Contract, requests made by the CONTRACTOR for substitution of equipment and/or material of makes and/or types other than those specified in the Contract will be considered for two reasons only:

- 1. That the equipment and/or material proposed for substitution is **superior** in construction and/or efficiency to that specified in the Contract.
- 2. That the equipment and/or material proposed for substitution is **equal** in construction and/or efficiency to that specified in the Contract.

In either case, it will be assumed that the cost to the CONTRACTOR of the equipment and/or material proposed to be substituted is less than the equipment and/or material specified in the Contract and, if the substitution is approved, the Contract price shall be reduced a corresponding amount.

1.24 MAINTENANCE OF TRAFFIC:

- A. In projects where it is applicable, The CONTRACTOR shall submit a maintenance of traffic plan for approval by the CITY TRAFFIC ENGINEER, TRAFFIC SERGEANT AND FIRE MARSHALL prior to commencing work.

- B. The CONTRACTOR shall control their operations and those of their SUBCONTRACTORS and all suppliers, to assure the least inconvenience to the traveling public. Under all circumstances, safety shall be the most important consideration. The CONTRACTOR shall keep roads, streets, or highways open to all traffic and shall provide such maintenance as may be required to maintain specified traffic. The CONTRACTOR shall furnish, erect and maintain barricades, warning signs, flagmen, and other traffic control devices in reasonable conformity with the manual of Uniform Traffic Control Devices for Streets and Highways (published by the United States Government Printing Office), unless otherwise specified herein. The CONTRACTOR shall also construct and maintain in a safe condition any temporary connections necessary for ingress to and egress from abutting property or intersecting roads, streets or highways.
- C. Beginning date of CONTRACTOR's responsibility: the CONTRACTOR's responsibility for maintenance of traffic shall begin on the day they starts work on the project or on the first day contract time is charged, whichever is earlier. Their responsibility at this date is to notify the PROJECT MANAGER of the dates when traffic will be affected and where it will be affected and the steps they will take to maintain traffic safety.
- D. Sections not requiring traffic maintenance: In general the CONTRACTOR will not be required to maintain traffic over those portions of the project where no work is to be accomplished or where construction operations will not affect existing roads. The CONTRACTOR, however, shall not obstruct nor create a hazard to any traffic during the prosecution of the work and shall be responsible for repair of any damage to existing pavement or facilities caused by their operation.
- E. No waiver of liability: The CONTRACTOR shall conduct their operations in such a manner that no undue hazard will result due to the requirements of this section, and the procedures and policies described therein shall in no way act as a waiver of any of the terms of the liability of the CONTRACTOR or their surety.

1.25 WORK HOURS AND OVERTIME WORK:

- A. City noise ordinances prohibit any work prior to 7:00 a.m. and after 6:00 p.m., Monday through Friday. Work is allowed 8:00 a.m. to 6:00 p.m. on Saturdays. No work is allowed on Sundays.
- B. CONTRACTOR shall provide weekly progress schedule indicating working hours, and days subject to PROJECT MANAGER'S approval.
- C. CONTRACTOR shall be responsible for reimbursement of inspector's wages when inspection is required for over 40 hours per week, at a rate of \$50.00 per hour.
- D. Overtime inspection fees will not be deducted from moneys due the CONTRACTOR. Payment covering all overtime reimbursements must accompany monthly pay request.

1.26 HURRICANE PREPAREDNESS:

- A. As the schedule for this project may coincide, in part, with the recognized South Florida hurricane season, the CONTRACTOR's attention is drawn to the possibility of hurricane conditions, or severe storm conditions, occurring at the site during the course of Contract work.
- B. When applicable, the CONTRACTOR shall submit to the PROJECT MANAGER and OWNER a Hurricane Preparedness Plan. The plan should outline the necessary measures which the CONTRACTOR proposes to perform at no additional cost to the OWNER in case of hurricane warning.

- C. In the event of inclement weather, or whenever the PROJECT MANAGER shall direct, the CONTRACTOR shall, and will cause sub-Contractors to protect carefully the work and materials against damage or injury by reasons of failure on the part of the CONTRACTOR or any Sub-Contractor to so protect the work. Such work and materials so damaged shall be removed and replaced at the expense of the CONTRACTOR.

Hurricane Watch: Upon designation of a hurricane watch, CONTRACTORS shall be responsible for storing all loose supplies and equipment on the job site that may pose a danger. The CONTRACTOR shall also cooperate with City Personnel in protecting other structures at the site.

Hurricane Warning: No mobile "temporary facility" under the control of the City of Hollywood, or on City property shall be staffed during a hurricane warning. CONTRACTOR facilities meeting these criteria shall comply.

- D. The CONTRACTOR is advised to take all necessary precautions to protect his equipment by moving it to higher ground if in an area subject to flooding. Known areas of Hollywood that would be subject to flooding from storm tides include:

Hollywood Blvd.	North Lake Area	South Lake Area
A1A	Sheridan Street	Dania Beach Blvd.
US Highway 1	46 th Avenue	Hallandale Bch Blvd.

1.27 MAINTENANCE OF ACCESS:

- A. CONTRACTOR shall maintain access to all private property at all times during construction.
- B. CONTRACTOR shall provide alternate means of access where it is impractical to use the primary means of access during construction.
- C. The CONTRACTOR must not deny access to any driveway for any period of time that will exceed 24 hours.
- D. Any potential access interruption shall be coordinated between the CONTRACTOR and property owner.

1.28 CONSTRUCTION PHASING & COORDINATION WITH THE SCHOOL

- A. Coordination with the adjacent school is required.
- B. CONTRACTOR shall provide notification of any construction activities to the School's principal and the School Board verbally and via email 48 hours in advance.
- C. Phasing plans provided shall be adhered to.
- D. Work shall not interfere with school activities and shall be done while school is not in session.

END OF SECTION

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DIVISION 2

SITE WORK

SECTION 01568

TEMPORARY EROSION AND SEDIMENTATION CONTROL

PART 1 - GENERAL

1.01 DESCRIPTION

A. Scope of Work:

1. The Work specified in this Section consists of designing, providing, maintaining and removing temporary erosion and sedimentation controls as required by applicable rules and regulations and permit conditions.
2. Temporary erosion controls include, but are not limited to, grassing, mulching, netting, and providing interceptor ditches at ends of berms and at those locations which will ensure that erosion during construction will be either eliminated or maintained within acceptable limits.
2. Temporary sedimentation controls include, but are not limited to, silt dams, traps, barriers, and appurtenances at the foot of sloped surfaces which will ensure that sedimentation pollution will be either eliminated or maintained within acceptable limits.
3. Contractor is responsible for providing effective temporary erosion and sediment control measures during construction or until final controls become effective.

B. Related Work Described Elsewhere:

1. Sodding: Section 02950

PART 2 - PRODUCTS

2.01 EROSION CONTROL

- A. Sodding is specified in Section 02950.
- B. Netting shall be fabricated of material acceptable to the Owner.

2.02 SEDIMENTATION CONTROL

- A. Bales shall be clean, seed-free cereal hay type.
- B. Netting shall be fabricated of material acceptable to the Owner.
- C. Filter stone shall be crushed stone which conforms to Florida Department of Transportation (FDOT) Specifications.
- D. Concrete block shall be hollow, non-load bearing type.
- E. Concrete shall be exterior grade not less than 1-inch thick.

PART 3 - EXECUTION

3.01 EROSION CONTROL

A. Minimum procedures for grassing are:

1. Scarify slopes to a depth of not less than 6 inches and remove large clods, rock, stumps, roots larger than 1/2 inch in diameter and debris.
2. Sow seed within 24 hours after the ground is scarified with either mechanical seed drills or rotary hand seeders.
3. Apply mulch loosely and to a thickness of between 3/4 inch and 1-1/2 inches.
4. Apply netting over mulched areas on sloped surfaces.
5. Roll and water seeded areas in a manner which will encourage sprouting of seeds and growing of grass. Reseed areas which exhibit unsatisfactory growth. Backfill and seed eroded areas.

3.02 SEDIMENTATION CONTROL

A. Install and maintain silt dams, traps, barriers, and appurtenances as shown on the approved descriptions and working drawings. Hay bales which deteriorate and filter stone which is dislodged shall be replaced.

3.03 PERFORMANCE

A. Should any of the temporary erosion and sediment control measures employed by the Contractor fail to produce results which comply with the requirements of the State of Florida, the Owner or Engineer, the Contractor shall immediately take whatever steps are necessary to correct the deficiency at his own expense.

END OF SECTION

DIVISION 2

SITEWORK

SECTION 02060

DEMOLITION

PART 1 - GENERAL

1.01 WORK INCLUDED:

- A. Remove existing concrete as directed by the ENGINEER.
- B. Remove existing asphalt and limerock base as directed by the ENGINEER.

1.02 RELATED WORK:

- A. Section 02110: Clearing and Grubbing

1.03 PROTECTION:

- A. Provide suitable barricades and lighting to protect the public prior to the removal of sidewalks, ramps etc. The barricades and lights shall remain until the newly placed concrete is sufficiently hard to sustain pedestrian traffic. Barricades and lights shall be removed as soon as possible after placing concrete.

PART 2 - PRODUCTS (N/A)

3.01 EXECUTION:

- A. Repair damage to adjacent structures that are due to CONTRACTOR operations at no extra cost to the CITY.
- B. Repair damage to all existing items scheduled to remain, such as asphalt driveways; asphalt aprons; concrete driveways; concrete aprons; sod; shrubs; trees; fences; sprinkler systems; mailboxes; walls, etc., that are due to CONTRACTOR operations at no extra cost to the CITY.

END OF SECTION

DIVISION 2

SITEWORK

SECTION 02110

CLEARING AND GRUBBING

PART 1 – GENERAL

Clear and grub within the areas of the roadway right-of-way shown in the Plans to be cleared and grubbed. Remove and dispose of all trees, stumps, roots and other such protruding objects, structures, appurtenances, existing flexible asphalt pavement, and other facilities necessary to prepare the area for the proposed construction. Remove and dispose of all product and debris not required to be salvaged or not required to complete the construction.

Also, perform certain miscellaneous work the Engineer considers necessary for the complete preparation of the overall project site, as follows:

(a) Level the terrain outside the limits of construction for purposes of facilitating maintenance and other post-construction.

(b) Trim trees and shrubs within the project right-of-way that are identified in the Contract Documents.

1.01 WORK INCLUDED:

Completely remove and dispose of all buildings, timber, brush, stumps, roots, rubbish, debris, and all other obstructions resting on or protruding through the surface of the existing ground and the surface of excavated areas, and all other structures and obstructions necessary to be removed and for which other items of the Contract do not specify the removal thereof, including septic tanks, building foundations, and pipes.

Perform Standard Clearing and Grubbing within the following areas:

(a) All areas where excavation is to be done.

(b) All areas where roadway embankments will be constructed.

(c) All areas where structures will be constructed, including pipe culverts and other pipe lines.

1.02 RELATED WORK:

A. Section 02060: Demolition

B. Section 02220: Excavation, Grading, Backfill and Compaction

PART 2 - PRODUCT
(N/A)

PART 3 - EXECUTION

3.01 CLEARING & GRUBBING:

- A. The surface of the ground within the area to be cleared and grubbed shall be completely cleared of all timber, brush, bushes, stumps, roots, grass, weeds, rubbish and all other objectionable obstructions resting on or protruding through the surface of the ground. Clearing operations shall be conducted so as to prevent damage to existing structures, irrigation systems, signage, etc. The ENGINEER must approve the removal of all trees.
- B. Grubbing shall consist of the complete removal of all stumps, roots, matted roots, brush, timber, logs and any other organic or inorganic debris resting on, under or protruding through the surface of the ground. If tree stumps are encountered they must be removed to a depth of 12 inches below the sub-grade. All depressions excavated below the original ground surface of or by the removal of such objects, shall be refilled with suitable materials and compacted to a density approved by the Engineer.
- C. All material resulting from clearing and grubbing operations shall be removed from the job site and disposed of by the CONTRACTOR at no additional cost to the CITY.

3.02 RELOCATIONS:

- A. All items specified in the Contract or designated by the Engineer to be relocated shall be carefully protected from damage by the CONTRACTOR.
- B. All items to be relocated shall be carefully removed.
- C. The locations of all relocations shall be properly prepared.
- D. All items incidental to the relocations shall be provided by the CONTRACTOR.
- E. The original locations of the relocations shall be properly restored.
- F. All items relocated shall be as functionally effective as prior to their relocations.
- G. Any damage to the relocated items shall be repaired by the CONTRACTOR at no additional cost to the CITY.
- H. Any damage to existing items designated to remain such as driveways, aprons, trees, hedges, etc. that are due to CONTRACTOR operations shall be repaired/replaced by the CONTRACTOR at no additional cost to the CITY.
- I. Repair damage to existing sprinkler lines and existing sprinkler heads that are due to CONTRACTOR operations at no additional cost to the CITY.

END OF SECTION

DIVISION 2

SITEWORK

SECTION 02220

EXCAVATION, GRADING, BACKFILL AND COMPACTION

PART 1 - GENERAL

1.01 WORK INCLUDED:

- A. The work included under this section consists of excavating, grading, backfilling and compacting as required for the construction of items shown on plans, including achieving the final grades.
- B. Excavation shall include the removal of all material of whatever nature encountered, including all obstructions of any nature that would interfere with the proper execution and completion of the work.

1.02 RELATED WORK:

- A. Section 02060: Demolition
- B. Section 02110: Clearing and Grubbing

1.03 JOB CONDITION:

- A. Existing Utilities:
 - 1. All water pipes, storm drains, force mains, gas or other pipe, telephone or power cables or conduits, all house services, meter boxes, valve boxes and all other obstructions, shall be protected and if damaged, shall be repaired by the CONTRACTOR at no additional cost to the CITY.
 - 2. The CONTRACTOR shall notify SUNSHINE toll free number 1-800-432-4770 or each utility individually, forty-eight (48) hours prior to excavation.
 - 3. Where it is necessary to sever, remove or relocate any utility for the proper excavation of work, the CONTRACTOR shall notify the various Utilities in sufficient time so measures may be taken to prevent or minimize interruption of service. The CONTRACTOR shall be responsible for the coordination of such utility revisions with the appropriate Utility. This work shall be completed by either the existing Utility or CONTRACTOR'S forces, at the discretion of the responsible Utility, all at no additional cost to the CITY.
 - 4. The CONTRACTOR shall be responsible for adjusting meter boxes, valve box, etc., to an appropriate elevation flush with proposed surfaces or as directed by the Engineer.

1.04 PROTECTION:

- A. Provide proper barricades, flashers, signs and other safety devices to maintain and protect pedestrian and vehicular traffic.
- B. Holes shall not be left open overnight.

PART 2 - PRODUCTS

2.01 MATERIALS:

A. Fill Material:

1. Imported fill material where required by the Engineer, shall be non-cohesive, non-plastic material, free of all debris and lumps, namely clean, imported, granular, sandy material with no organic traces.
2. Material shall not have rocks larger than two inches (2") in diameter.
3. Where the soil conditions are inadequate for sidewalk placement, limerock may be utilized as directed by the ENGINEER.
4. Suitable site materials shall be used up before imported fill is brought to the job site.
5. The ENGINEER must approve of all locations where imported fill or limerock is to be used.

PART 3 - EXECUTION

3.01 EXCAVATION:

A. General:

1. Excavation shall include the removal of all material of whatever nature encountered, including all obstructions of any nature that would interfere with the proper execution and completion of the work. The removal of said material shall conform to the lines and grades ordered.
2. The base for sidewalks and ramps shall be granular material free of muck, peat, organic material and any deleterious material. Any unsuitable base material must be removed and disposed of away from the project. Granular fill shall be replaced as needed to meet the required grade and/or to replace unsuitable material. The CONTRACTOR shall not over-excavate an area without the permission of the ENGINEER.
3. When excavations are to be made in paved surfaces, the pavement shall be saw-cut ahead of the excavation by means of suitable sharp tools to provide a uniform sharp edge, with minimum disturbance of remaining material. The saw shall be of sufficient size to entirely cut through the pavement. Jagged and excessive cuts will not be permitted. Partial sawing and breaking of concrete will not be allowed.

B. Disposal of Excess Excavated Material:

1. The CONTRACTOR shall remove and dispose of or transfer to a site within the CITY, all suitable excess excavation material, in accordance with Paragraph 7.14 C of the General Condition.

C. Excavation in Vicinity of Trees:

1. Trees that are designated not to be removed shall be protected from injury during construction operations. Cut and remove all tree roots smaller than four inches (4") in diameter which are under the sidewalk to be replaced or under the proposed new sidewalk. No tree roots over four (4) inches in diameter shall be cut without express permission of the Engineer. Trees shall be supported during excavation as may be directed by the Engineer.
2. All depressions that were created below the surface of the ground as a result of removal of roots shall be filled with suitable material and compacted to a density conforming to the surrounding ground.

3.02 SPRINKLER REPAIR:

- A. Existing sprinkler lines and sprinkler heads in the way of the new sidewalks shall be lowered and/or relocated by the CONTRACTOR to the satisfaction of the Engineer. No separate bid item is provided in the Proposal for sprinkler repair. The Cost shall be included in the Concrete Sidewalk Section of the Proposal.

3.03 BACKFILL:

- A. Fill material shall be placed in compacted layers of no more than six inches (6") in depth to the required sub-grade elevation.
- B. Imported fill is allowed to be used only after the existing fill that is suitable for use has been completely used up.
- C. The ENGINEER must approve of all locations where imported fill is to be used.

3.04 COMPACTION:

- A. Fill material including limerock or existing sub-grade material under sidewalks or ramps shall be thoroughly compacted. Granular fill replacing unsuitable material shall be of sufficient depth to prevent any "working-up" of the unsuitable material and no less than six inches (6") measured after compaction. The base shall be graded parallel to finish grade.
- B. All material that will be beneath new concrete shall be compacted by mechanical means to ninety-eight (98%) of maximum density in paved areas and ninety (90%) of maximum density in grassed areas.
- C. When material does not have the proper moisture content to obtain the required density, then wetting or drying of the material shall be required.

3.05 COMPACTION TESTING:

- A. Compaction testing specified herein are expressed as a percentage of maximum density. Maximum density shall be determined by AASHTO T-180, Method D.
- B. The CITY will retain an independent test laboratory to perform density and/or other soil tests.

- C. Laboratory and field density tests, which, in the opinion of the Engineer, are necessary to establish compliance with the compaction requirements of these specifications, shall be conducted by the independent test laboratory. Compaction density tests shall be scheduled by the Engineer.
- D. The CITY shall only pay for passing compaction density tests. All tests which fail to meet minimum compaction requirements shall be paid by the CONTRACTOR.
- E. Backfill that does not comply with the specified densities, as indicated by such tests, shall be reworked and recompacted until the required compaction is secured, at no additional cost to the CITY.

3.06 GRADING:

- A. Bring top of sub-grade, base, or finished grade to a smooth and compact surface conforming to grades, lines, and cross-sections specified, of uniform density ready to receive base course, sidewalk, ramp, surface course, topsoil or sod.
- B. Check slopes, elevations, cross-sections and density before placement of the sidewalk, ramp, asphalt or sod.
- C. Finished surface shall be protected from ruts, depressions or other irregularities, until placement of sidewalk, ramp or asphalt.
- D. Assure the subgrade is at the required elevations at driveways to achieve a maximum slope of 1:20 at all transition areas between the new sidewalk and existing driveways.
- E. Assure the subgrade is at the required elevations at aprons to achieve a maximum slope of 1:6 at all transition areas between the new sidewalk and existing aprons.
- F. If conditions exists that more than 2 inches of asphalt will be required to be placed over the existing asphalt in order to provide the proper transitions between the new sidewalk and driveway / apron, then the existing asphalt must be removed and limerock be scarified / added. Prime coat will be applied over limerock prior to asphalt placement.
- G. If conditions exist that 2 inches of asphalt or less will be required to be placed over the existing asphalt in order to provide for proper transitions between the new sidewalk and driveway / apron, then the existing asphalt may be resurfaced. Tack coat will be applied over existing asphalt prior to additional asphalt placement. Provide for keyway at joints.

END OF SECTION

DIVISION 2
SITework
SECTION 02223
LIMEROCK BASE

PART 1 - GENERAL

1.01 WORK INCLUDED:

- A. Furnish all labor, materials, equipment and incidentals required to provide a new limerock base where applicable, or scarify existing limerock base where applicable in accordance with typical sections specified herein or as directed by the ENGINEER.
- B. Limerock base must be sufficient so that the maximum thickness of compacted asphalt will not exceed 2 inches.
- C. Limerock may be used as a base beneath new sidewalks as directed by the ENGINEER.

1.02 RELATED WORK:

- A. Section 02060: Demolition
- B. Section 02110: Cleaning & Grubbing
- C. Section 02220: Excavation, Grading, Backfill & Compaction
- D. Section 02514: Asphaltic Concrete Pavement

PART 2 - PRODUCTS

2.01 MATERIALS:

- A. Limerock Base
 - 1. Material shall consist of Miami Limerock conforming to Sections 200 and 911 of the 2010 FDOT Standard Specification for Road and Bridge Construction.
- B. Quality:
 - 1. The limerock material shall be uniform in quality and shall not contain cherty or other extremely hard pieces or lumps, balls or pockets of sand or clay size material in sufficient quantity as to be detrimental to prevent proper bonding, finishing or strength of limerock base. Limerock material shall be nonplastic, and the liquid amount shall not exceed 35.
 - 2. Limerock material shall have an average LBR value of not less than 100.

3. Existing limerock should be used prior to the importing of new limerock if existing limerock is acceptable to the Engineer.

PART 3 - EXECUTION

3.01 PREPARATION:

- A. For new limerock base construction, or areas where pavement is to be replaced, CONTRACTOR shall remove existing subgrade as required to provide a new limerock base, minimum of 8" of new limerock base in the roadway and 6" in driveway aprons.
- B. Compact sub grade to a density of no less than 98% of maximum density as determined by AHSHTO T-180. All material that will be beneath new concrete shall be compacted to ninety-eight (98%) of maximum density in paved areas and ninety (90%) of maximum density in grassed areas. Properly compact areas adjacent to curbs, catch basins, manholes and other areas not accessible to rollers with mechanical or hand tamping devices.
- C. The CITY shall pay for all passing density tests. All tests which fail to meet minimum compaction requirements shall be paid by the CONTRACTOR.

3.02 INSTALLATION:

- A. The limerock shall be transported to the point where it is to be used, over rock previously placed if practicable, and dumped on the end of the preceding spread. No hauling over the subgrade or dumping on the subgrade shall be done.
- B. Spreading Limerock:
 1. The limerock shall be spread uniformly, and all segregated areas of fine or coarse rock shall be removed and replaced with well-graded rock.
 2. When the specified compacted thickness of the base is greater than 8-inches, the base shall be constructed in two courses. The thickness of the first course shall be approximately one-half the total thickness of the finished base, or enough additional to bear the weight of the construction equipment without disturbing the subgrade.
- C. Provide limerock as required to achieve asphaltic pavement slope of a maximum of 1:20 at all transition areas between the proposed concrete sidewalks and existing asphalt.
- D. Provide limerock as required to achieve asphaltic pavement slope a maximum of 1:6 at all transition areas between the proposed concrete sidewalks and existing driveways.
- E. Establish grades and cross-sections conforming to plans:
 1. Provide a minimum of 8" inches of limerock as required to provide grades, elevations and cross sections indicated.
 2. The CONTRACTOR must determine for himself the volume of material required for the site.
- F. Compacting and Finishing Base.

1. Work shall comply with Sections 200 of the FDOT Specifications.
2. Proposed limerock base shall be compacted to a minimum of ninety-eight percent (98%) of maximum density as determined by AASHTO T-180. Properly compact areas adjacent to curbs, catch basins, manholes and other areas not accessible to rollers with mechanical or hand tamping devices.
3. Correction of Defects:
 - a. If at any time the subgrade material should become mixed with the base course material, the CONTRACTOR shall dig out and remove the mixture, which shall be shaped and compacted as specified above.
 - b. If cracks or checks appear in the base, either before or after priming, which in the opinion of the Engineer would impair the structural efficiency of the base course, the CONTRACTOR shall remove such cracks or checks by rescarifying, reshaping, adding base material where necessary and recompacting.
4. The CITY shall pay for all passing density tests. All tests which fail to meet minimum compaction requirements shall be paid by the CONTRACTOR.

END OF SECTION

DIVISION 2

SITE WORK

SECTION 02507

PRIME AND TACK COATS

PART 1 - GENERAL

1.01 WORK INCLUDED:

- A. The work specified in this section consists of the application of bituminous tack coats on previously prepared bases and on all existing pavement surfaces. All work shall be accomplished in accordance with these specifications and as per the direction of the ENGINEER. No separate bid item is provided in the proposal for tack coats. The cost shall be included in the contract unit price for asphaltic concrete pavement.

1.02 RELATED WORK:

- A. Section 02514: Asphaltic Concrete Pavement

PART 2 - PRODUCTS

2.01 MATERIALS:

- A. Prime Coat
 - 1. Materials shall comply with Section 300 of the 2010 FDOT Standard Specifications for Road and Bridge Construction.
 - 2. Type or grade of material shall be as specified in Section 300-2.1 of 2010 FDOT Specifications and shall meet requirements of Section 916-2 or 916-4.
 - 3. No separate bid item is provided in the proposal for prime and tack coats. The cost shall be included in the contract unit price for limerock base.
- A. Tack Coat
 - 1. Undiluted Emulsified Asphalt Grades RS-1 or RS-2 meeting the requirements of Section 916-2 of the Florida D.O.T. "Standard Specifications for Road and Bridge Construction", 2010. RS-1 or RS-2 shall be heated to a temperature of 140 degrees F. to 180 degrees F. For night paving the tack coat shall be RA-500 meeting the requirements of 916-2 and shall be heated to a temperature between 250 degrees F. and 300 degrees F. Equipment shall conform to the requirements of Section 300-3 and application of tack coat shall conform to Section 300-8 of said specifications. The Engineering Inspector may require appropriate tests of materials at times and locations determined by him.

2. A RS-2 tack coat shall be required on existing asphalt surfaces before placing new surface course.
3. Material used shall conform to Section 300-2.3 and Section 916-4 of the 2010 FDOT Standard Specifications for Road and Bridge Construction.
4. No separate bid item is provided in the Proposal for tack coat; the cost shall be included in the contract unit price for asphaltic concrete surface course.

2.02 EQUIPMENT:

1. The pressure distributor used for placing the tack coat shall be equipped with pneumatic tires having a sufficient width of rubber in contact with the road surface to avoid breaking the bond or forming a rut in the surface. The distance between the centers of openings of the outside nozzles of the spray bar shall be equal to the width of the application required, within an allowable variation of 2-inches. The outside nozzle at each end of the spray bar shall have an area of opening of not less than 25 percent, nor more than 75 percent in excess of the other nozzles which shall have uniform openings. When the application covers less than the full width, the normal opening of the end nozzle at the junction line may remain the same as those of the interior nozzle.
2. **SAMPLING DEVICE ON TRANSPORT TANKS:** All transport tanks delivering bituminous materials shall be equipped with an approved spigot-type sampling device.
3. **TEMPERATURE SENSING DEVICE ON TRANSPORT TANKS:** All transport tanks delivering bituminous materials shall be equipped with an approved dial type thermometer.

The thermometer shall have a temperature range from 50°F to 500°F in 25°F increments with minimum dial diameter of two inches.

The thermometer shall be located near the midpoint in length and within the middle third of the height of the tank and be enclosed in a well with a protective window or by other means as necessary to keep the instrument clean and in the proper working condition.

The measurement shall be based on a temperature of 60°F and correction for temperature shall be made by increasing or decreasing the volume actually measured as specified in Section 300-8 of the Florida D.O.T. 2010.

PART 3 -EXECUTION

3.01 PREPARATION:

- A. Before applying any tack coat all loose material, dust, dirt and foreign material which might prevent proper bond with the existing surface shall be removed. Particular care shall be taken to clean the outer edges of the strip to be treated in order to insure the tack coat will adhere.
- B. When the tack coat is applied adjacent to curb and gutter or another concrete surface, such concrete surfaces (except where they are to be covered with a bituminous wearing coarse) shall be protected by heavy paper or other protective material while the tack coat is being applied. Any bituminous material deposited on such concrete surfaces shall be removed immediately.
- C. PRIME COAT
 - 1. Work shall comply with Section 300 of the 2010 FDOT Standard Specifications for Road and Bridge Construction.
 - 2. Ensure base course is dry and free of loose or foreign material before priming.
 - 3. Apply primer over prepared base course at a uniform rate of approximately one-tenth (1/10) gallon per square yard. Ensure primer is at temperature recommended by manufacturer.
 - 4. The prime coat shall be fully set and cured before placing asphaltic concrete. Use clean natural sand to blot excess primer.
 - 5. Coat surfaces of manholes which are to remain free of asphalt with oil to prevent asphalt adhesion.
- D. TACK COAT
 - 1. Work shall comply with Section 300 of the 2010 FDOT Standard Specification for Road and Bridge Construction.
 - 2. Application shall be in accordance with Section 300-7 of 2010 FDOT Specifications.
 - 3. A tack coat will be required on existing asphalt surfaces before placing new surfaces courses.

3.02 WEATHER LIMITATIONS:

- A. No bituminous material shall be applied when the air temperature is less than 40⁰ F in the shade, or when the weather conditions or the condition of the existing surface is unsuitable. In no case shall prime or tack coats be applied while rain is falling or when there is water on the surface to be covered.

3.03 APPLICATION OF PRIME OR TACK COATS:

- A. No prime or tack coat shall be applied until the surface has been cleaned and is free from sand, dust or other objectionable material.
- B. The prime and tack coat shall be applied with a pressure distributor as specified in paragraph 2.02 above. The tack coat shall be heated to a suitable temperature and shall be applied in a thin uniform layer at the rate of between .02 gallons and .08 gallons per square yard.
- C. The prime and tack coat shall be applied sufficiently in advance of the placement of the asphaltic concrete pavement in order to permit drying. However the tack coat shall not be applied so far in advance that it might lose its adhesiveness as a result of being covered with dust or other foreign material.
- D. Suitable precautions shall be taken by the CONTRACTOR to protect the surface while the prime and tack coat is drying and until the placement of the asphaltic concrete.

END OF SECTION

DIVISION 2

SITE WORK

SECTION 02513

MILLING OF EXISTING ASPHALT PAVEMENT

PART 1 - GENERAL

1.01 WORK INCLUDED:

- A. The work specified in this section consists of removing existing asphaltic concrete pavement by milling to improve the rideability of the finished pavement. The milled material shall be removed and disposed of by the CONTRACTOR.
- B. The locations and the extent of milling are as per the direction of the ENGINEER.
- C. Basis of payment: The quantity shall be paid for at the contract unit price established in the bid proposal form for Milling Existing Asphalt Pavement.

1.02 RELATED SECTION:

- A. Section 02514: Asphaltic Concrete Pavement

PART 2 - PRODUCTS

(NOT USED)

PART 3 - EXECUTION

3.01 GENERAL:

- A. The milled surface shall maintain the proposed grade and cross slope and shall be textured so as to provide a sound mechanical bonding surface for the new asphalt overlay. The milling operation shall be performed so as to minimize the amount of dust emitted by the machine. Pre-wetting of the pavement immediately ahead of the operation shall be required, using a separate self-propelled watering vehicle.

3.02 GRADE CONTROL:

- A. Grade Control within the general asphalt pavement area shall be referenced from the proposed grade lines and elevations. Tolerance for overcutting shall be within 1/4 inch of the required grade.

3.03 EQUIPMENT:

- A. Milling Equipment:
 - 1. The milling machine shall be a self-propelled heavy duty unit capable of maintaining a smooth depth of cut and cross slope which will achieve the results specified herein and as depicted on the plans, without applying artificial heat to the pavement surfaces. The equipment used shall be

capable of milling and removing a constant one inch (1") depth cut at the rate of 2,000 square yard per hour at normal operating speed. The milling equipment shall have effective pick up and removal integral with the unit and shall be further equipped with positive means to limit the amount of dust escaping from the removal operation. The minimum cutting width shall be six (6) feet.

2. The use of a smaller milling machine will be permitted when milling a maximum 2 foot wide strip to lower the grade adjacent to existing curb and gutter, curb, concrete ramps, catch basins, aprons, driveways and/or to provide proper joint at existing asphalt roads, as required by the ENGINEER.
- B. Grade Control: The milling equipment shall be equipped with automatic grade control devices capable of maintaining depth of cut as specified herein. The control system shall be automatically actuated from either a reference line or surface through a system of mechanical sensors or sensor-directed mechanisms or devices which will maintain the depth of cut at a predetermined transverse slope and/or at the proper depth or elevations to obtain the required texture or surface. The controls shall be capable of working in conjunction with any of the following attachments:
1. Adjustable length ski-type device of up to thirty (30) feet in length as directed by the ENGINEER.
 2. Taut string line (wire) pre-set to grade.
 3. Short ski or shoe.
- The control systems or devices shall be capable of being operated on both sides of the equipment simultaneously, when necessary.
- C. Pre-wetting Equipment: The pre-wetting equipment shall be self-propelled tank units with sufficient capacity to provide continuous full coverage watering immediately ahead of the milling operation at all times.

3.04 PROTECTION OF MILLED SURFACES:

- A. Milling over-cut operations shall normally progress immediately ahead of the asphalt paving operations such that a minimum over-cut area will be exposed to vehicular traffic at any one time. The finished milled surface in over-cut areas shall be protected from all traffic and/or endangering such traffic until the new asphalt surface course has been applied, compacted and completed.

3.05 CONSTRUCTION:

- A. Milling:
1. The existing pavement shall be milled and removed to the average depths indicated by the ENGINEER or as specified in this Section in a manner that will restore the pavement surface to a uniform cross section and longitudinal profile.
 2. The CONTRACTOR may elect to make multiple cuts to achieve the required configurations or depth of cut.

3. The milling machine shall be operated to effectively minimize the amount of dust being emitted from the matching and pre-wetting of the pavement shall be used as required.
4. Where traffic is to be maintained in the milled surface, the texture of the milled surface shall be controlled to provide an acceptable riding surface and the surface shall be thoroughly swept with a power vacuum or other approved equipment to remove fine material which will dust under traffic.
5. The CONTRACTOR shall take precautions to prevent milled materials from entering storm sewer systems and to prevent damage to curbs and gutters.

B. Milled Surface:

1. The milled surface shall have a reasonably uniform texture, shall be within 1/4-inch of a true profile grade and shall have no deviation in excess of 1/4-inch from a straightedge applied to the pavement perpendicular to the centerline. Any unsuitable texture or profile shall be corrected by the CONTRACTOR at no additional compensation unless accepted by the ENGINEER without correction.
2. Prior to placing the new asphaltic concrete surface course, the milled surface shall be swept clean with a power vacuum and all dust and fine materials shall be removed to the greatest extent practicable to provide a good bonding surface for the new material. A tack coat is required on milled surfaces.

END OF SECTION

DIVISION 2

SITE WORK

SECTION 02514

ASPHALTIC CONCRETE PAVEMENT

PART 1 - GENERAL

1.01 WORK INCLUDED:

- A. The work specified in this section consists of the construction of asphaltic concrete pavement composed of a mixture of aggregates, mineral filler and asphalt cement properly laid upon the existing pavement, in accordance with these specifications and in conformity with the lines, grades, thickness and typical cross sections shown on Drawings or as indicated by the ENGINEER. The work also includes repair to the road surface such as potholes, etc. The CONTRACTOR shall furnish Type S-1 and Type S-III asphaltic concrete in the locations and to the extent indicated on Drawings or as directed by the ENGINEER.
- B. The CONTRACTOR shall typically furnish Type S-III asphaltic concrete when the desired thickness of asphalt placement is between 3/4 " and 1-1/4" unless otherwise directed by the ENGINEER. The CONTRACTOR shall typically furnish Type S-I asphaltic concrete when the desired thickness of asphalt placement is between 1-1/4" and 2" unless otherwise directed by the ENGINEER. Leveling courses may be utilized to obtain required results as per the direction of the ENGINEER.

1.02 QUALITY ASSURANCE:

- A. Construction of asphaltic concrete surface courses shall be in accordance with the Standard Specifications for Road and Bridge Construction, 2010, of the Florida Department of Transportation, and supplements thereto, hereinafter referred to as FDOT Specifications, except as amended herein. The FDOT Specifications are hereby made a part of this contract to the extent they are applicable thereto and shall be as binding upon the CONTRACTOR as though reproduced herein.
- B. Laboratory analysis by a Certified Testing Laboratory on all materials to be used shall be complete and the materials accepted by the ENGINEER prior to placement. The laboratory analysis shall be provided at no cost to the City.

1.03 RELATED SECTIONS:

- A. Section 02223: Limerock Base
- B. Section 02507: Prime and Tack Coat

PART 2 - PRODUCTS

A. TYPE S ASPHALTIC CONCRETE:

1. General Requirements: Asphaltic concrete shall be Type III conforming to Section 331 of the 2010 FDOT Standard Specifications for Road and Bridge Construction. The asphaltic concrete shall be composed of a combination of aggregate (coarse, fine, or mixtures thereof), mineral filler, if required, and bituminous material. The aggregate shall be clean and shall contain no deleterious substances. Screenings shall meet the requirements of Section 902-5. The several aggregate fractions shall be sized, uniformly graded and combined in such proportions that the resulting mixture will meet the grading and physical properties of the job mix formula. In all cases, the job mix formula shall be within the design ranges specified in Table 331-1 and Table 331-2, Florida D.O.T. The CONTRACTOR shall control all operations in the handling, preparation, and mixing of the asphalt mix so that the percent bitumen and the percents passing the No. 4, 10, 40 and 200 sieves will meet the approved job mix formula within the tolerance shown in Table 331-5, Florida D.O.T. CONTRACTOR shall submit job mix formula for ENGINEER'S approval.
2. Plant methods and equipment shall conform to Section 320 and Section 330 of the 2010 FDOT Specifications.
3. Proportions of Sand and Screening: Not more than 25 percent by weight of the total aggregate used shall be local sand, a portion not to exceed 15 percent by weight of the total aggregate may be commercial washed sand.
4. Stability: The constituents of the mixture shall be combined in such proportions as to produce a mixture having Marshall properties within the limits shown in Table 331.2, Florida D.O.T.
5. Screenings: Any screenings used in the combination of aggregates shall contain not more than 15 percent of material passing the No. 200 sieve. When two screenings are blended to produce the screening component of the aggregate, one of such screenings may contain up to 18 percent of material passing the No. 200 sieve, as long as the combination of the two does not contain over 15 percent material passing the No. 200 sieve. Screenings may be washed to meet these requirements.
6. Bituminous Material: The bituminous material shall be Asphalt Cement, Viscosity Grade AC-20 or AC-30, meeting the requirements set forth in Section 916.1, Florida D.O.T.
7. Coarse Aggregate: Coarse aggregate, stone, slag or crushed gravel shall conform with the requirements of Section 901, Florida D.O.T. The aggregate shall be clean and contain no deleterious substances. Coarse or fine aggregate containing any appreciable amount of phosphate shall not be used.
8. Fine Aggregate and Mineral Filler: Fine aggregate shall conform with the requirements of Section 902, Florida D.O.T. Mineral filler shall conform with Sections 917-1 and 917-2 of Florida D.O.T. In laboratory tests, and for the purpose of proportioning the paving mixture, all mixture passing

the No. 10 sieve and retained on the No. 200 sieve shall be considered as fine aggregate, and the material passing the No. 200 sieve shall be considered as mineral filler.

B. JOB MIX FORMULAS:

1. The job mix formulas for Type S-1 and Type S-III asphaltic concrete shall be submitted at least two weeks before the scheduled start of production, for the ENGINEER'S approval. The submitted job mix formula shall include test data showing that the material as produced will meet the requirements specified in Table 331-2 when tested in accordance with FM1-T245. Further, the bulk specific gravity of the laboratory compacted bituminous mixture shall be determined in accordance with FM1-T166.
2. The percent of unfilled voids and the percent of aggregate voids filled with asphalt shall be based on the maximum, specific gravity of the bituminous mixture and on the asphalt content of each group of specimens prepared from the same sample. Maximum specific gravity of the bituminous mixture shall be determined by FM1-T209. Submittal shall also indicate the minimum effective asphalt content requirements in Table 331-2, Florida, D.O.T. are satisfied for each mix.
3. The submittal shall include the following information:
 - a. The source and description of the materials to be used;
 - b. The gradation and approximate proportions of the raw materials as intended to be combined in the paving mixture;
 - c. A single percentage of the combined mineral aggregate passing each specified sieve;
 - d. A single percentage of asphalt by weight of total mix intended to be incorporated in the completed mixture;
 - e. A single temperature at which the mixture is intended to be discharged from the plant;
 - f. The laboratory density of the asphalt mixture;
 - g. Evidence that the completed mixture will conform to all specified physical requirements; and
 - h. The name of the individual responsible for the Quality Control of the mixture during production.
4. Reclaimed asphalt pavement may be used providing it does not exceed 25% by weight of total aggregates for asphalt courses, and meets all other requirements of Section 331-2.2.4 of the Florida Department of transportation.
5. The approved job mix formula shall remain in effect until a change is authorized in writing by the ENGINEER. The CONTRACTOR, at any time after construction has started, may request that the job mix formula be revised, providing evidence is shown that the revision is necessary and the revised aggregate gradation will meet the requirements of Table 331-1.
6. A New design will be required for any change in source of aggregate. All requests for design mix adjustments, redesigns and new design mixes will be submitted in writing to the ENGINEER. When the ENGINEER determines that an undesirable surface texture is being produced due to

mix conditions, he will require an immediate adjustment to the job mix formula.

7. The design mix must be submitted to the ENGINEER for approval.

C. CONTRACTOR'S QUALITY CONTROL:

1. The CONTRACTOR shall provide the necessary control of the bituminous mixture and construction in accordance with the applicable provisions of 6-8 and 331-4.4, Florida D.O.T. After the job mix formula is approved, the CONTRACTOR shall furnish the material not only within the limits of the design range, but in addition, shall meet the approved job mix formula within the acceptance ranges shown in the approved design mix. The hot bin gradations shall comply with the provisions of 331-4.4.3 and Table 331-3, Florida D.O.T.

2. Additional Tests: The ENGINEER reserves the right to run any test at any time at the asphalt plant for informational purposes, and for determining the effectiveness of the CONTRACTOR'S quality control. The ENGINEER may run Marshall Stabilities to determine whether or not the CONTRACTOR is meeting his design requirements. When the results of at least two consecutive tests indicate noncompliance with the approved design mix, the CONTRACTOR'S operations will be stopped until the requirements can be met or another design mix has been approved.

3. Acceptance at the Plant: The bituminous mixture will be accepted at the plant with respect to gradation and asphalt content in accordance with the requirements of 331-5, Florida D.O.T.

4. Acceptance on the Roadway: The bituminous mixture will be accepted on the roadway with respect to compacted density and surface tolerance in accordance with the applicable provisions of 330-10 and 330-12, Florida D.O.T.

PART 3 – EXECUTION:

A. COMPACTING MIXTURE:

1. The following equipment, sequence and coverage are suggested for use based on past successful performance; however, since density is required, the CONTRACTOR may select his own equipment, sequence and coverage of rolling to meet the minimum density requirements specified.
 - a. Seal rolling, using tandem steel rollers weighing 5 to 12 tons, and following as close behind the spreaders as is possible without pickup, undue displacement or blistering of the material.
 - b. Rolling with self-propelled, pneumatic-tired rollers, following as close behind the seal rolling as the mix will permit. The roller shall cover every portion of the surface with at least five passes.

- c. Final rolling with the 8 to 12 ton tandem steel roller, to be done after the seal rolling and pneumatic-tired rolling have been completed, but before the pavement temperature has dropped below 140°F.
2. Once the CONTRACTOR has selected the equipment and established the following procedures and these have been used for the control strip density determination, then the CONTRACTOR must continue to use the same equipment and rolling procedures for all asphalt mix represented by the control strip. Changes in equipment or procedures will require a new control strip density determination. The ENGINEER must be notified prior to changing the rolling process.
3. When density is not required, as for all patching courses, leveling and intermediate courses less than one inch thick, over build courses of variable thickness (when the minimum thickness is less than one inch), the compaction will be applied in accordance with the standard specifications. The specified rolling procedures must be followed when density determinations will not be made.
4. When density is not required on those courses indicated in the foregoing paragraph, but the CONTRACTOR wants to use other rollers, patterns or sequences than those specified, they may request approval from the ENGINEER. Approval may be granted for leveling and intermediate courses one half inch (1/2") and thicker and over build courses when these courses are placed with a paving machine. Density requirements will be in accordance with the provisions of the first paragraph of 330-10.3 (Density Control – Nuclear Method), Table 330-2 and Table 330-3. Approval for a change on patching courses, variable thickness leveling courses placed with the motor graders and open-graded friction courses will not be granted.
5. Rolling Procedures: The initial rolling shall be longitudinal. Where the lane being placed is adjacent to a previously placed lane, the center joint shall be pinched or rolled, prior to the rolling of the rest of the lane.
6. After the rolling or pinching of the center joint, the rolling shall continue across the mat by overlapping each previous roller path by at least one-half the width of the roller wheel. The motion of the roller shall be slow enough to avoid displacement of the mixture, and any displacement shall be corrected at once by the use of rakes, and the addition of fresh mixture if required. Final rolling shall be continued until all roller marks are eliminated.
7. Speed of Rolling: Rolling with the self-propelled, pneumatic-tired rollers shall proceed at a speed of six (6) to ten (10) miles per hour, and the area covered by each roller shall not be more than 4,000 square yards per hour, except that for type S-1 Asphaltic Concrete, this maximum rate of coverage shall be 3,000 square yards per hour.
8. Number of pneumatic-tired rollers required: A sufficient number of self propelled, pneumatic-tired rollers shall be used to assure that the rolling of the surface for the required number of passes will not delay any other phase of the laying operation nor result in excessive cooling of the mixture before the rolling is complete. In the event that the rolling falls

behind, the laying operation shall be discontinued until the rolling operations are sufficiently caught up.

9. Compaction of Areas inaccessible to Rollers (such as areas adjacent to curbs, headers, gutters, bridges, manholes, etc.) shall be compacted by the use of hand tamps or other satisfactory means.
10. Rolling Patching and Leveling Courses: Self propelled, pneumatic-tired rollers shall be used for the rolling of all patching and leveling courses. Where the initial leveling course is placed over broken concrete pavement, the pneumatic-tired roller shall weigh at least fifteen (15) tons. For Type S-1 Asphaltic Concrete leveling course, the use of a steel-wheeled roller, to supplement the traffic rollers, will be required. On other leveling courses, the use of a steel-wheeled roller will be required on all passes after the first.
11. Correcting Defects: The rollers shall not be allowed to deposit gasoline, oil or grease onto the pavement, and any areas damaged by such deposits shall be removed and replaced as directed by the ENGINEER. While rolling is in progress, the surface shall be tested continuously and all discrepancies corrected to comply with the surface requirements. All drippings, fat or lean areas and defective construction of any description shall be removed and replaced. Depressions which develop before the completion of the rolling shall be remedied by loosening the mixture and adding new mixture to bring the depressions to a true surface. Should any depression remain after the final compaction has been obtained, the full depth of the mixture shall be removed and replaced with sufficient new mixture to form a true and even surface. All high spots, high joints and honeycomb shall be corrected as directed by the ENGINEER. Any mixture remaining unbonded after rolling shall be removed and replaced.
12. Any mixture which becomes loose or broken, mixed or coated with dirt or in any way defective, prior to laying the wearing course shall be removed and replaced with fresh mixture which shall be immediately compacted to conform with the surrounding area. Areas of defective surfaces may be repaired by the use of indirect heat. No method of repair involving open-flame heaters shall be used.

B. DENSITY CONTROL:

1. Density requirement shall be as detailed in Section 330-10 of the 2010 FDOT Specifications.
2. The in-place density of each course of asphalt mix construction, with the exceptions of patching courses, leveling and intermediate courses less than one-inch (1") thick or a specified spread rate less than 100 pounds per square yard, and over build courses where the minimum thickness is less than one inch, shall be determined by the use of the Nuclear Density backscatter Method as specified by FGM 1-T238 (Method B). The required density of a completed course shall be at least 98 percent of the average density of the control strip.
3. Control Strips: One or more control strips shall be constructed for the purpose of determining the control strip density. A control strip shall be constructed at the beginning of asphalt construction under this contract as part of Work Order #1. Any change in the composition of the mix will

require the construction of a new control strip. The ENGINEER may require an additional control strip when he deems it necessary to establish a new control strip density or confirm the validity of the control strip density being used at that time. The CONTRACTOR may request a confirmation of the control strip density also. The control strip must be constructed as a part of a normal day's run. The CONTRACTOR will not be permitted to construct the control strip separately.

4. The length of the control strip shall be 300 feet, regardless of the width of the course being laid. When the control strip is to be constructed for the first day of asphalt construction or at the beginning of a new course, it shall be started at a mutually agreed upon distance from the beginning of the paving operation. The thickness of the control strip shall be the same as that specified for the course of which it is a part. The control strip will be constructed using the same mix, the same paving and rolling equipment and the same procedures as those used in laying the asphalt course of which the control strip is to become a part. Every control strip will remain in place and become a portion of the completed roadway.
5. When the compaction of the control strip has been completed, ten density determinations will be made at random locations, within the control strip. No determinations will be made within one foot of any unsupported edge. The average of these ten determinations will be the Control Strip Density. For purposes of determining the percent of laboratory density, as required in Table 330-2, a correction factor will be developed from cores or by direct transmission nuclear determination where applicable.
6. Acceptance: The minimum acceptable average density for Type S-III and Type S-I bituminous concrete mixes shall be 98.0 percent of the established control strip density. Partial payment will be made for each day's work where the average density has been tested and determined to be less than 98.0 percent of the control strip density based on the following schedule:

Payment Schedule for Density

<u>Percent of Control Strip Density</u>	<u>Percent of Payment</u>
98.0 and above	100
97.0 to less than 98.0	95
96.0 to less than 97.0	90
Less than 96.0	75

7. Transverse Joints: Placing the mixture shall be as continuous as possible and the roller shall not pass over the unprotected end of the freshly laid mixture except when the laying operation is to be discontinued long enough to permit the mixture to become chilled. When the laying operation is thus interrupted, a transverse joint shall be constructed by cutting back on the previous run to expose the full depth of the mat.
8. Longitudinal Joints: Where only a portion of the width of pavement is to be laid and the exposed edge opened to traffic, the edge shall not be vertical but sloped or rolled over and sealed. When the adjacent strip is constructed, the ENGINEER may require the edge of the mixture in place to be trimmed back where it was sloped or rolled over to expose an unsealed or granular vertical face in constructing the longitudinal joint for the adjacent strip. Where the edge of the strip first laid is not opened to

traffic, the edge shall be left vertical and not trimmed back in constructing the longitudinal joint for the adjacent strip.

9. For all layers of pavement except the leveling course, placing of each layer shall be accomplished to cause longitudinal construction joints to be offset six to twelve inches (6"-12") laterally between successive layers. The ENGINEER may waive this requirement where offsetting is not feasible due to the sequence of construction.
10. General: When fresh mixture is laid against the exposed edges of joints (trimmed or formed as provided above), it shall be placed in close contact with the exposed edge so that an even, well-compacted joint will be produced after rolling.

C. SURFACE REQUIREMENTS:

1. CONTRACTOR Responsibility: CONTRACTOR shall be responsible for obtaining a smooth surface on all pavement courses placed and therefore should straightedge all intermediate and final courses with a fifteen foot (15') rolling straightedge. A fifteen foot (15') manual straightedge shall be furnished by the CONTRACTOR and shall be available at the job-site at all times during the paving operation for checking joints and surface irregularities.
2. CONTRACTOR shall be responsible for Texture of the Finished Surface of Paving Layers: The finished surface shall be of uniform texture and compaction. The surface shall have no pulled, torn, or loosened portions and shall be free of segregation, sand streaks, sand spots, or ripples. Any area of the surface which does not meet the foregoing requirements shall be corrected in accordance with 330-12.4.
3. Depressions which may develop after the initial rolling shall be remedied by loosening or removing the mixture and adding new material to bring the areas to a true surface. No skin patching shall be done. Such portions of the completed pavement which are defective in surface compaction or in composition, or that do not comply with all other requirements of these specifications, shall be taken up and replaced with suitable mixture, properly laid in accordance with these specifications and will be done at the expense of the Contractor.

D. ACCEPTANCE TESTING FOR SURFACE TOLERANCE:

1. General: Acceptance testing for surface tolerance will be applicable only to through traffic lanes and ramps, where the ramp is a constant width, and shall include all construction joints.
2. Intersections, acceleration lanes, deceleration lanes, tapers, crossovers, transitions at beginning and end of project, and similar areas will not be tested for surface tolerance with the rolling straightedge as provided below. However, any individual surface irregularity in these areas in excess of 3/8-inch as determined by a 15-foot straightedge, and deemed by the ENGINEER to be objectionable, shall be corrected in accordance with 330-12.4.
3. Test Method: Acceptance testing shall consist of one pass of a standard 15-foot rolling straightedge operated along the centerline of each lane tested. This does not preclude acceptance testing at other locations within the lane being tested.

4. Acceptance Criteria for Final Surface: Upon completion of the final surface, Engineering Personnel and Contractor's personnel will test the finished surface with a 15-foot rolling straightedge. All deficiencies in excess of 3/16-inch shall be corrected in accordance with 330-12.4, except that correction by overlaying will not be permitted when the final surface is a friction course.
 5. The ENGINEER may waive corrections specified above if it is determined that the deficiencies are sufficiently separated so as not to significantly affect the ride quality of the pavement and that corrective action would unnecessarily mar the appearance of the finished pavement surface.
 6. Where the ENGINEER elects to waive a correction, the appropriate pay quantity for Asphaltic Concrete shall be reduced by the equivalent quantity of materials which would have been removed and replaced if the correction had been made. The calculation for volume which would have been removed is (50' + deficient length) x lane width x layer thickness x laboratory density for the mix.
- E. CORRECTING UNACCEPTABLE PAVEMENT:
1. The CONTRACTOR has the option of selecting one of the following methods unless overlaying is prohibited in accordance with 330-12.3.4:
 - (a) Removing and Replacing: If correction is made by removing and replacing the pavement, the removal must be for the full depth of the course and extend at least 25 feet on either side of the defective area, for the full width of the paving lane.
 - (b) Overlaying: If correction is made by overlaying, the overlay shall cover the length of the defective area and taper uniformly to a featheredge thickness at a minimum distance of 25 feet on either side of the defective area. The overlay shall extend full width of the roadway. Care shall be taken to maintain the specified cross slope.
 2. The cost of all corrective work, either by removing and replacing or by overlaying, shall be borne by the CONTRACTOR.
- F. PULL THE INTERSECTION RETURNS:
1. Pavement overlay at intersections shall be continued onto the side street to a distance determined by the ENGINEER. Provide for keyway at joints.
- G. DRIVEWAYS / APRONS
1. Provide for proper transitions between the driveway / apron and travel lane, new asphaltic concrete surface course to achieve a slope of a maximum 1:20 at driveway transition areas and a maximum of 1:6 at apron transition areas, by uniformly feathering asphalt to a required distance determined by the ENGINEER. If deemed necessary by ENGINEER, provide for keyway at joints.
 2. Assure that a tack coat has been properly provided on existing asphalt at sidewalks, driveways and aprons adjoining new construction.

3. Assure that a prime coat has been properly provided on limerock at sidewalks, driveways and aprons adjoining new construction.
4. Furnish, place and compact Type S-III asphaltic concrete surface course at sidewalks, driveways and aprons adjoining new construction.

END OF SECTION

DIVISION 2

SITEWORK

SECTION 02528

CONCRETE CURB & GUTTER

PART 1 – GENERAL

1.01 WORK INCLUDED:

- A. The work included in this Section consists of furnishing all labor, material equipment and transportation for the construction of Type D and Type F curb and gutter, and drop curb, including limerock curb pad.

1.02 RELATED WORK:

- A. Section 02530: Concrete Sidewalks and Ramps

1.03 SUBMITTALS:

- A. All materials specified shall be certified by the producer or manufacturer that the furnished material meets the specific requirements of the specifications.

PART 2 - PRODUCTS

2.01 MATERIALS:

- A. Concrete shall conform to Section 520-2 of the 2010 FDOT Specifications.
- B. Preformed Joint Filler: Preformed joint filler shall be nonextruding and resilient bituminous type and shall conform to requirements of ASTM Designation D 1751.
- C. Joint Sealer For Gutters:
 - 1. Hot Poured Type: Joint sealer shall conform to the requirements of AASHTO Designation M 173.
 - 2. Cold Applied Type: In lieu of the hot poured type, joint sealer shall be a one or two part polysulfide base self leveling sealant for horizontal surfaces that has been developed for feet and vehicular traffic. The sealant shall be listed on the Thiokol approved product list.

PART 3 - EXECUTION

3.01 PREPARATION:

- A. Provide a limerock curb pad 4" inches thick and extending 6" inches beyond edge of concrete. Curb pad shall be compacted to a minimum density of 98% of ASHTO T-180.
- B. Setting Forms: The forms shall be accurately set to line and grade and such that they rest firmly, throughout their entire length upon the compacted limerock pad. Forms shall be joined neatly and tightly and braced to resist the pressure of the concrete and the finishing operations. The alignment and grade of all forms shall be approved before and immediately prior to the placing of concrete.
- C. Slipforming; The slipforming method will be allowed, provided that an acceptable finished product, true to line, grade, and cross section is consistently produced.
- D. Mixing Concrete: Concrete shall be mixed in accordance with the requirements of Section 345 of the FDOT Specifications.

3.02 INSTALLATION/APPLICATION:

- A. Work shall comply with Section 520 of FDOT Specifications, the drawings and all other contract documents.
- B. Placing Concrete:
 - 1. The concrete shall be distributed on the subgrade to such depth that, when it is consolidated and finished, the thickness required by the Drawings will be obtained at all points and the surface will at no point be below the grade specified for the finished surface. The concrete shall be deposited on the prepared pad in a manner which will require as little rehandling as possible. Placing of the concrete shall be continuous between transverse joints, without the use of intermediate bulkheads.
 - 2. Concrete shall be thoroughly consolidated against and along the faces of all forms by means of vibrators. Vibrators shall not be permitted to come in contact with the subgrade or a Side form. Vibration at any one location shall not continue so long as to produce puddling or the accumulation of excessive grout on the surface. In no case shall the vibrator be operated longer than 15 seconds in any one location.
- C. Striking-Off, Consolidating and Finishing Concrete:
 - 1. Immediately after the placing, the concrete shall be struck off, consolidated and finished, to produce a finished product conforming to the section, width and surface finish required by the Drawings and Specifications.
 - 2. After the concrete has sufficiently set a minimum of 12-hours, the CONTRACTOR shall remove the forms and shall backfill the space on each side. The earth shall be compacted and graded in a satisfactory manner without damage to the concrete work. Honeycombs shall be filled with sand cement mortar. Plastering will not be allowed on the face

of the curb. Rejected curb, curb and gutter or valley gutter shall be removed and replaced without additional compensation.

D. Final Finish: As soon as the water sheen has disappeared and just before the concrete becomes nonplastic, a light broom finish shall be given to the surface.

E. Joints:

1. Transverse Construction Joints: Transverse construction joints shall be constructed at the end of all pours and at other locations where the pouring operation are stopped for as long as 30 minutes. Construction joints, however, shall not be placed within ten feet of any other transverse joint or of either end of a section of curb. If sufficient concrete has not been placed to form a slab at least ten feet long, the excess concrete, back to the last preceding joint, shall be removed. The joints shall be formed by placing a wood or metal bulkhead accurately and securely in place, in a plane perpendicular to the profile and center line of the pavement. Construction joints shall be sawed, in a manner similar to contraction joints, so that a groove will be formed for holding the joint sealing compound.
2. Transverse Contraction Joints: Transverse contraction joints shall be constructed at ten-foot intervals and shall consist of planes of weakness created by sawing the surface of the hardened concrete. The cut shall be perpendicular to the surface of the pavement, and shall extend to a depth of six inches below the top of the curb and one and one-half inches below the gutter.
 - a. It shall be the CONTRACTOR's responsibility to see that the sawing equipment does not damage the curb and to saw the transverse contraction joints as soon as the curb, curb and gutter has hardened to the degree that tearing and raveling are not excessive and before uncontrolled shrinkage cracking begins. If, at any time, uncontrolled cracking occurs, the CONTRACTOR will be required to modify his methods.
3. Transverse Expansion Joints: One half-inch expansion joints shall be formed by placing performed joint filler at the ends of each radius return, around all structures, and at intervals not exceeding 500 feet.
4. Cleaning and Sealing Joints: Joints in gutters which are to be sealed, shall be filled with joint sealing material before the roadway is opened to traffic and as soon after completion of the curing period as is feasible. Just prior to sealing, each joint shall be thoroughly cleaned of all foreign material and the joint faces shall be clean and surface-dry when the sealer is applied.
 - a. The sealing material shall be applied to each joint to conform to the details shown on the Drawings and in accordance with the manufacturer's recommendation. The pouring shall be done in such manner that the material will not be spilled on the exposed surfaces of the concrete. Any excess material on the surface of the concrete gutter shall be removed immediately and the gutter surface cleaned.

- b. All cracks occurring in the gutter prior to its acceptance shall be cleaned out and sealed as specified above, except that the cracks and fractures shall be completely filled with joint sealer and any excess filler material cut down level with the gutter surface.

END OF SECTION

DIVISION 2

SITEWORK

SECTION 02530

CONCRETE SIDEWALKS AND RAMPS

PART 1 - GENERAL

1.01 WORK INCLUDED:

- A. The work included in this Section consists of furnishing all labor, material, equipment and transportation for the construction of a minimum (4" & 6") four & six inch thick, with width varying between 4' and 5', sidewalk in accordance with the specifications and drawings.
- B. The work also included in this Section consists of the replacement or repair of various existing damaged sidewalks as per the requirements of this contract.
- C. Installation of root barrier as directed by the ENGINEER.

1.02 RELATED WORK:

- A. Section 02220: Excavation, Grading, Backfill, and Compaction

1.03 SUBMITTALS:

- A. The CONTRACTOR is to submit documentation showing that all furnished materials meet the requirements of the specifications. i.e. concrete test reports.

PART 2 - PRODUCTS

2.01 MATERIALS:

- A. Materials shall comply with Section 522 of 2010 FDOT Standard Specifications for Road and Bridge Construction.
- B. Concrete: Concrete shall be Class B with minimum compressive strength of 3000 psi at 28 days.
- C. Detectable Warning:
 - 1. Detectable Warnings shall be comprised of truncated domes aligned in parallel rows in accordance with the 2013 FDOT Roadway and Traffic Design Standards Index No. 304.
 - 2. The concrete detectable warning shall be dyed safety yellow (US-ANSI Z535.1-1991, 6.3).

- D. Preformed Joint Filler: Preformed joint filler shall be nonextruding and resilient bituminous type and shall conform to the requirements of ASTM Designation D 1751.

PART 3 - EXECUTION

3.01 PREPARATION:

A. Layout:

1. Prior to the CONTRACTOR commencing construction operations in a particular area, the CONTRACTOR and the ENGINEER shall meet to discuss the sidewalk locations and the sidewalk elevations. The purpose of this meeting is to determine in the field if adjustments of the stakes are needed due to existing conditions. The CONTRACTOR and the ENGINEER shall agree on these adjustments and the appropriate changes are to be made.

B. Subgrade Condition:

1. The finished subgrade shall be maintained in a smooth, compact condition and any areas which are disturbed prior to placing of the concrete shall be restored at the CONTRACTOR's expense. The subgrade shall be moist at the time the concrete is placed. Water shall be uniformly applied ahead of the pouring operations as directed by the ENGINEER. Large boulders and other obstructions shall be removed to a minimum depth of 6-inches below the finished subgrade elevation, and the space shall be backfilled with sand, base course material or other suitable material which shall be thoroughly compacted by rolling or tamping.
2. The subgrade shall be accurately trimmed to the required elevation. High areas shall be trimmed to proper elevation. Low areas may be filled with suitable material and compacted to the specified density or filled with concrete integrally with the placing of the pavement.
3. Prior to the setting of forms the subgrade must be in a condition that is acceptable to the ENGINEER.
4. No forms for any sidewalk shall be placed until grade and alignment have been checked and approved by the ENGINEER. The CONTRACTOR shall make all adjustments as required by the ENGINEER.
5. No concrete for any sidewalk shall be placed until the forms have been checked and approved by the ENGINEER. The CONTRACTOR shall make all adjustments as required by the ENGINEER.

- ##### **C. Setting Forms:**
- The forms shall be accurately set to line and grade and such that they rest firmly, throughout their entire length upon the compacted subgrade surface. Forms shall be joined neatly and tightly and braced to resist the pressure of the concrete and the finishing operations. The alignment and grade of all forms shall be approved before and immediately prior to the placing of concrete.

3.02 INSTALLATION:

A. CITY Standard Sidewalk

1. Construction shall be in strict conformance with Section 522 of the 2010 FDOT Standard Specifications for Road and Bridge Construction, the drawings and all other contract documents.
2. All sidewalks shall be at least four inches (4") in depth, except at ramps, at driveways or other traffic loaded areas, where they shall be at least six inches (6") in depth.
3. Where a new sidewalk is to meet an existing sidewalk that is not at the correct grade, a ramp not less than five feet (5') in length or sloping more than one inch per 20 inches shall be provided to join the sidewalks.
4. Open joints shall be constructed at Point of Curvature (P.C.) and Point of Tangency (P.T.) of curves and at junction of existing and new sidewalks. Joints shall be fitted with ½' premolded expansion joint material.
5. Contraction joints are to be provided typically at 5'-0" intervals. The joint dimensions are 1/8" in width and 1-1/2" in depth.
6. City Standard sidewalk detail Drawings are shown in the Appendix.
7. The back of sidewalk shall be a minimum of one-tenth feet (1/10') above crown of the road and shall be at least 6" from the edge of the right-of-way. Sidewalks shall slope toward the street pavement at one-quarter inch (1/4") per feet or 2%. The maximum allowable vertical slope in the direction of sidewalk placement shall be 1:20.
8. The CONTRACTOR shall match existing sidewalk and driveway elevations as directed by the ENGINEER. The sidewalk should be level through driveways.
9. The CONTRACTOR shall provide double radius curves at all horizontal changes in sidewalk locations.
10. The CONTRACTOR is expected to use sound judgement with respect to minimizing cut and fill sections.

B. Detectable Warnings:

1. Detectable warnings shall be provided in accordance with the Americans with Disabilities Act Accessibility Guidelines (ADAAG) Section 4.29.2 - Detectable Warnings on Walkway Surfaces.
2. Detectable warnings shall be comprised of truncated domes aligned in parallel rows in accordance with Index No. 304 of the 2013 FDOT Roadway and Traffic Design Standards. Do not use detectable warnings with a diagonal pattern.
3. The detectable warnings shall be installed on ramps which adjoin a vehicular way and shall be five feet (5') wide and three feet (3') in length.

4. The detectable warnings shall be dyed safety yellow (US-ANSI Z535. 1-1991, 6.3), when the concrete is still wet.
- C. Placing Concrete:
1. The concrete shall be distributed on the subgrade to such depth that, when it is consolidated and finished, the thickness required by the Drawings will be obtained at all points and the surface will at no point be below the grade specified for the finished surface. The concrete shall be deposited on the subgrade in a manner which will require as little rehandling as possible. Placing of concrete shall be continuous between transverse joints, without the use of intermediate bulkheads.
 2. Concrete shall be thoroughly consolidated against and along the faces of all forms by means of vibrators. Vibrators shall not be permitted to come in contact with the subgrade or a Side form. Vibration at any one location shall not continue so long as to produce puddling or the accumulation of excessive grout on the surface. In no case shall the vibrator be operated longer than 15 seconds in any one location.
- D. Striking-off, Consolidating and Finishing Concrete: Immediately after the placing, the concrete shall be struck off, consolidated and finished, to produce a finished product conforming to the cross section, width and surface finish required by the Drawings and Specifications.
- E. Straight edging and Surface Corrections:
1. After floating has been completed and the excess water removed, but while the concrete is still in a plastic state, the surface of the concrete shall be tested for trueness with an accurate 10-foot straightedge. The straightedge shall be furnished by the CONTRACTOR. The straightedge shall be held in successive positions parallel to the walk centerline, in contact with the surface, and the whole area tested from one Side of the slab to the other as necessary. The advance along the walk shall be in successive stages of not more than one-half the length of the straightedge. Any depressions shall be immediately filled with freshly mixed concrete and struck-off, consolidated and refinished. High areas shall be cut down and refinished. Straightedge testing and surface correction shall continue until the entire surface appears to conform to the required grade and cross section. All surface irregularities exceeding 1/4-inch in a 10-foot shall be corrected.
- F. Final Finish: As soon as the water sheen has disappeared and just before the concrete becomes nonplastic, all edges, including expansion joint edges, shall be finished with an edging tool having a radius of 1/4-inch. Finally the top shall be given a light broom finish perpendicular to the forms.
- G. Form Removal: After the concrete has sufficiently set a minimum of 12-hours, the CONTRACTOR shall remove the forms and shall backfill the space on each side. The earth shall be compacted and graded in a satisfactory manner without damage to the concrete work. Honeycombs shall be filled with sand cement mortar. Plastering will not be allowed on the face of the walk. Rejected walk shall be removed and replaced without additional compensation.

3.03 ROOT REMOVAL:

- A. Roots under sidewalk shall be properly cut by saw a minimum of three inches beyond the edge of sidewalk.
- B. Roots which exceed 4" in diameter should not be cut unless approved by the ENGINEER.
- C. If, in the opinion of the ENGINEER a root or roots should not be removed, he will select the alternate method of sidewalk construction, as specified under 3.04 "Tree Considerations" below.
- D. Removal of roots shall include disposal.

3.04 TREE CONSIDERATIONS

- A. It is the policy of the City of Hollywood to remove the least amount of trees as possible. Therefore the following are among the procedures to be utilized in preserving trees.
 - 1. Relocating trees.
 - 2. Removing tree branches and removing tree limbs.
 - 3. Cutting tree roots and installing root barriers.
- 4. Relocating the sidewalk in order to avoid the tree.
 - 5. Providing a curved sidewalk in the region of the tree.
 - 6. Providing a sidewalk that will ramp over exposed tree roots.

3.05 SITE CLEANUP:

- A. Upon completion of sidewalk and ramp construction, the CONTRACTOR must thoroughly clean up the project site. In addition the removing all forms, equipment, unused materials, deleterious material and surplus excavated material, the CONTRACTOR shall find grade all disturbed areas and the areas, adjacent to sidewalks and ramps to provide a neat and uniform site. All damaged or altered swales, as a result of sidewalk work, shall be corrected and brought to the ENGINEER'S approval.
- B. Where applicable, sites should be left in a rake clean condition, with no rocks appearing and with appropriate slope changes or transitions.

END OF SECTION

DIVISION 2

SITE WORK

SECTION 02605

ADJUSTMENT OF EXISTING UTILITIES

PART 1 – GENERAL

1.01 WORK INCLUDED:

- A. Adjust existing sanitary sewer, storm sewer and other City of Hollywood manhole frame and cover to match proposed asphalt pavement elevation. The use of polypropylene rings for adjustments will be used in lieu of brick and mortar if the adjustment that is required can be achieved by the providing of a single ring. If the adjustment that is required cannot be achieved by the providing of a single ring one of the following two installation procedures will be utilized by the CONTRACTOR at the direction of the ENGINEER
 - Providing multiple polypropylene rings
 - Utilizing brick and mortar for the full depth
- B. Adjust storm sewer inlets frame and grate to match proposed pavement elevation.
- C. Adjust water valve boxes to match proposed asphalt pavement grades.
- D. Review requirements under other sections and coordinate with requirements of this section. All work under this section to be completed prior to mobilizing for resurfacing.

PART 2 - PRODUCT

(NOT USED)

PART 3 - EXECUTION

3.01 MANHOLES AND INLETS: UTILIZING BRICK AND MORTAR:

- A. Adjust the frame to the required elevation with brick and mortar.
- B. Work shall comply with Section 425-6 of the 2010 FDOT Standard Specifications for Road and Bridge Construction.
- C. Two (2) coats of Koppers 300-M, or approved equal, shall be applied to the inside surfaces of the brick and mortar for all sanitary sewers.
- D. Furnish and install limerock (LBR 100 min) around adjusted manholes and inlets up to existing asphalt pavement grade limerock shall be compacted to 98% of T-180. CONTRACTOR may substitute flowable fill for limerock.

3.02 MANHOLES AND INLETS: UTILIZING POLYPROPYLENE RINGS:

- A. Provide rings as manufactured by Turner Company, P.O. Box 20741, Raleigh, North Carolina 27619 or approved equal. The main office Point of Contact Frank Turner @ (919) 782-3851. The local point of contact is Bill Godfrey @ (877) 927-7011
- B. Furnish and install limerock (LBR 100 min) around adjusted manholes and inlets up to existing asphalt pavement grade limerock shall be compacted to 98% of T-180. CONTRACTOR may substitute flowable fill for limerock.
- C. Unless otherwise directed by the ENGINEER, a maximum of one ring shall be utilized per manhole. Rings are not allowed to be stacked unless authorized by the ENGINEER.

3.03 VALVE BOXES:

- A. Furnish and install cast iron riser ring, thickness to match proposed pavement.
- B. All other utility boxes shall be adjusted by the respective utility company. In locations where adjustment has not been performed, it shall be the CONTRACTOR'S responsibility to lay a bond-breaker material over the utility box before surfacing, then remove the fresh asphalt placed over the utility box access hole after resurfacing.

3.04 PROTECTION:

All utility rims and/or grates shall be painted and maintained fluorescent orange immediately after adjustment.

END OF SECTION

DIVISION 2

SITE WORK

SECTION 02848

PAVEMENT MARKINGS

PART I - GENERAL

1.01 WORK INCLUDED:

- A. Provide temporary and permanent pavement markings and permanent reflective raised pavement markers, in colors, dimensions, and locations required to meet Broward County's Traffic Engineering requirements.
- B. The CONTRACTOR shall replace in kind the traffic markings and RPM's covered with new asphalt unless otherwise instructed by the ENGINEER. Prior to installing any traffic markings, CONTRACTOR will be provided with a traffic marking plan.

PART 2 - PRODUCT

2.01 MATERIALS:

- A. Color of pavement marking and striping shall be as specified.
- B. Striping and Markings
 - 1. Temporary traffic stripes and marking shall comply with Section 710 of the 2010 FDOT Specifications for Road and Bridge Construction.
 - 2. Permanent thermoplastic traffic striping and markings shall comply with Section 711 of the 2010 FDOT Specifications for Road and Bridge Construction.
 - 3. Glass spheres shall comply with Sections 711-2.2, 971-1 and 971-14 of the 2010 FDOT Specifications for Road and Bridge Construction.
- C. Raised Reflective Pavement Markers
 - 1. Raised Reflective pavement markers shall be 4" x 4", bi-directional as per the Engineer, and shall be Class B as described in Section 706-2 of the 2010 FDOT Specifications for Road and Bridge Construction.
 - 2. Raised Reflective pavement markers shall comply with Section 706-2 of the 2010 FDOT Specifications for Road and Bridge Construction.
 - 3. Bituminous adhesive for bonding the reflective pavement markers to the pavement shall be as recommended by the marker's manufacturer and shall comply with Section 706-2.1 of the 2010 FDOT Specifications for Road and Bridge Construction.

PART 3 - EXECUTION:

3.01 GENERAL:

- A. In areas where there are no asphalt overlay, remove existing thermoplastic compound with a grinder or by sandblasting. The removal of said material shall not damage the underlying surface of the pavement. Painting over the thermoplastic compound shall not be allowed. No separate bid item provided in the proposal for thermoplastic compound removal. The cost shall be included in other items.
- B. Remove existing RPM's in area to receive asphaltic concrete overlay.
- C. Do not apply permanent traffic markings until layout and placement has been verified in field by the BROWARD COUNTY TRAFFIC ENGINEERING DIVISION.
- D. Striping
 - 1. The portion of the pavement surface shall be cleaned of dirt grease, oil, moisture, loose or unsound pavement, and any other material which would adversely affect the striping as per Section 710-4 of the 2010 FDOT Specifications for Road and Bridge Construction.
- E. Placing of permanent pavement striping and markings on all asphaltic concrete surfaces shall not be accomplished during the following thirty (30) calendar day after placement of the final asphaltic surface. Temporary pavement striping and markings shall be required during the thirty (30) day period after placement of the final asphaltic surface. The charging of contract time will be suspended during the thirty (30) day period if the project is substantially complete and accepted by the City. The charging of contract time will resume on the thirty-first (31) day.
- F. Temporary traffic striping and markings:
 - 1. Apply temporary striping and marking as directed in the field by the ENGINEER or Broward County Traffic Engineering.
 - 2. Paint application shall be manufacturers recommended rates and as per Section 710-4.3 of the 2010 FDOT Specifications for Road and Bridge Construction.
 - 3. Glass spheres application shall comply with Section 710-4.5 of the 2010 FDOT Specifications for Road and Bridge Construction.
 - 4. No separate bid item is provided in the proposal for glass spheres; the cost thereof shall be included in the contract unit price for temporary traffic markings.
 - 5. Protection of newly applied traffic markings shall comply with Section 710-7 of the 2010 Specifications.
- G. Permanent traffic markings
 - 1. CONTRACTOR shall notify Broward County Traffic Engineering at (954) 484-9600 after initial layout of traffic markings for their approval.

2. Apply thermoplastic compound with mechanical equipment to produce uniform straight edges. Apply at manufacturer's recommended rates and as per Section 711-4.3 of the 2010 FDOT Specifications for Road and Bridge Construction.
3. Glass spheres application shall comply with Section 711-4.4 of 2010 Specifications for Road and Bridge Construction.
4. No separate bid item is provided in the proposal for glass spheres; the cost thereof shall be included in the contract unit price for permanent traffic striping and markings.
5. Protection of newly applied stripes and of traffic shall comply with Section 711-6 of the 2010 Specifications.

H. Raised Reflective Pavement Markers

1. The portion of the pavement surface to which the marker is to be bonded by the adhesive shall be free of dirt, curing compound, grease, oil, moisture, loose or unsound layers, paint or any other material which would adversely affect the bond of the adhesive. Cleaning shall be by blast cleaning.
2. Installation shall comply with Section 706-4 of the 2010 FDOT Specifications for Road and Bridge Construction.
3. Newly applied raised reflective pavement markers shall be protected against impact until the adhesive has hardened. The minimum time necessary to cure the adhesive for sufficient set to bear traffic shall be as per the adhesive's manufacturer recommendations.
4. Replacement requirements shall comply with Section 706-4 of the 2010 FDOT Specifications for Road and Bridge Construction.

END OF SECTION

DIVISION 2
SITE WORK
SECTION 02850
TRAFFIC SIGNS

PART 1 – GENERAL

1.01 WORK INCLUDED:

- A. The work specified in this Section consists of relocating, furnishing and erecting aluminum roadway signs, with supporting posts or aerial hangers at the location shown in the Plans and in conformance with the following (including latest revisions).
 - 1. Standard Highway Signs Manual published by the U.S. Department of Transportation Federal highway Administration.
 - 2. Manual of Uniform Traffic Control Devices for Streets and Highway published by the U.S. Department of Transportation Federal Highway Administration.
 - 3. Reference Guide: Standard Alphabets for Highway Signs and Pavement Markings, published by U.S. Department of Transportation Federal Highway Administration.
 - 4. Broward County traffic Engineering Standards.

1.02 QUALITY ASSURANCE:

- A. The CONTRACTOR shall furnish manufacturers certification that all signs furnished conform to these specifications and shall replace or repair without additional cost to the CITY all signs that fail to meet this requirement.

PART 2 – PRODUCTS:

1.01 GENERAL

- A. Traffic regulating signs conforming to the colors, dimensions and requirements of the Manual on Uniform traffic Control Devices for Streets and Highways and displaying the lettering and symbols shown on the Drawings shall be furnished and installed in the locations and in the manner indicated and herein specified.

1.02 MATERIALS:

- A. Materials for traffic signs shall conform to the following standards:
 - 1. Sign panels: Aluminum Association Alloy 6061-T6, .080 gauge, unless otherwise specified.
 - 2. Support members: Flanged U-Channel Type, painted green.
 - 3. Bolts: Aluminum Associations alloy 2024-T4 with an anodic coating 0.0002-inch thick minimum and chromated sealed.

4. Lockwashers: Aluminum Association alloy 7075-T-6 with an anodic coating 0.0002-inch thick minimum and chromate sealed.
5. Nuts: Aluminum Association Alloy 6262-T9.
6. Concrete: 3000 psi at 28 days.
7. Reflective sheeting: FDOT Type A.

1.03 FABRICATION OF SIGNS:

- A. Preparation of signs blanks and fabrication of reflectorized sign faces shall conform to the applicable requirements of the 2010 FDOT Standard Specifications for Road and Bridge Construction.

PART 3 – EXECUTION:

3.01 ERECTION OF SIGNS AND SUPPORTS:

- A. Signs and sign supports shall be erected in accordance with details shown on the Drawings and shall be set plumb unless otherwise indicated. All structural support members shall conform to the dimensions indicated.

END OF SECTION

DIVISION 2

SITE WORK

SECTION 02920

CHAIN LINK FENCES AND GATES

PART 1 - GENERAL

1.01 WORK INCLUDED:

- A. The work specified in this Section consists of relocating, furnishing and erecting chain link fences and gates at location shown in the Plans and in conformance with the following (including latest revisions).
 - 1. American Association of State Highway and Transportation Officials (AASHTO):
 - a. M181: Standard Specification for Chain-Link Fence.
 - 2. American Society for Testing and Materials (ASTM):
 - a. A53/A53M: Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.
 - b. A121: Standard Specification for Metallic-Coated Carbon Steel Barbed Wire.
 - c. A392: Standard Specification for Zinc-Coated Steel Chain-Link Fence Fabric.
 - d. F567: Standard Practice for Installation of Chain-Link Fence.
 - e. F654: Standard Specification for Residential Chain Link Fence Gates.
 - f. F900: Standard Specification for Industrial and Commercial Swing Gates.
 - g. F1184: Standard Specification for Industrial and Commercial Horizontal Slide Gates.
- B. Chain Link Fence Manufacturers Institute (CLFMI):
 - 1. PM 2445: Chain Link Fence Manufacturers Institute Product Manual.

1.02 PERFORMANCE REQUIREMENTS:

- A. Delegated Design: Design chain-link fences and gates, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.
- B. Structural Performance: Chain-link fence and gate framework shall withstand the effects of gravity loads, privacy slats installed, and the following loads and stresses within limits and under conditions indicated according to ASCE/SEI 7:
 - 1. Minimum Post Size and Maximum Spacing: Determine according to CLFMI WLG 00810-143

2445, based on mesh size and pattern specified and on the following:

- a. Wind Loads: 146 mph
- b. Fence Height: see drawings

1.03 SUBMITTALS:

- A. Submit the following.
 - 1. Sustainable Design Submittals.
 - 2. Submit Manufacturer's specifications, drawings, details and fence layout with appurtenances.
 - 3. Submit two samples of fencing materials. Mark or tag each sample and submit 30 days prior to erection of fence.
 - 4. Submit certified test reports with results of tests for fence finish.
 - 5. Submit shop drawings, samples and certificates simultaneously as one complete package.

PART 2 - PRODUCTS

2.01 SYSTEM DESCRIPTION:

- A. Provide framework, fabric, accessories and gates in accordance with ASTM F567.
- B. Fence heights as indicated with top rail and bottom tension wire.
- C. Fence heights as indicated with top rail, bottom tension wire, and three strands of barbed wire projecting outward at top.
- D. Gates:
 - 1. Industrial and Commercial:
 - a. Provide swing gates in accordance with ASTM F900.

2.02 FENCE FABRIC:

- A. Galvanized steel.
- B. Colored PVC-coated steel fabric with galvanized and factory-painted steel posts, hardware, and fittings.
- C. Galvanized steel chain-link fabric conforming to ASTM A392, with Class 2 zinc coating (2.0 ounces (610 grams) of zinc per square foot (square meter) of uncoated wire surface); Fabric woven in 2-inch (50 mm) mesh from No. 9 gage wire in a [6 feet (1.97 m)] height with barbed selvages top and bottom.
- D. Fabric woven in 2-inch (50 mm) mesh from PVC coated wire in a [6 feet (1.97 m)] height with barbed selvages top and bottom. PVC coating thermally fused and bonded over galvanized plastic primed commercial quality steel wire with minimum coating thickness of

7 mils. Coated wire 9-gage with minimum breaking strength of 1,200 lbs. Color to be selected to match total fence system (0.40 oz. of zinc per sq. ft. of surface).

2.03 BARBED WIRE AND SUPPORT ARMS:

- A. Galvanized-steel barbed wire consisting of two strands of twisted No. 12-1/2 gage wires with 4-point barbs spaced 3 inches (80 mm) apart and conforming to ASTM A121, with Class 3 zinc coating (minimum of 0.8 oz (244 g) of zinc coating over each square foot (square meter) of uncoated wire surface for No. 12-1/2 gage wire).
- B. Color matched PVC coated galvanized steel wire, consisting of three strands of twisted No. 11 gage wires with No. 14 gage, 4-point vinyl coated aluminum alloy barbs spaced 3 inches (80 mm) apart.
- C. Support arms projecting outward, from top of posts, at 45 degrees and capable of withstanding 200 lb. (890 N) downward pull on outermost end of arm, without failure. Arms with provision for attachment of three strands of evenly spaced barbed wire and integral with post top weather caps with holes for passage of top rail at intermediate posts.

2.04 TENSION WIRE:

- A. No. 7-gage coil spring steel wire with galvanized finish having minimum of 0.8 oz (244 g) of zinc coating over each square foot (square meter) of uncoated wire surface.
- B. Color matched PVC coated No. 6 gage outside diameter, zinc coated coil spring steel wire having 0.40 oz of zinc coating per sq. ft. of wire surface.

2.05 TIE WIRES:

- A. Tie wires, for fastening fence fabric to line posts and rails, not less than No. 6 gage aluminum wire.
- B. Tie wires, for fastening fence fabric to line posts and rails, not less than 9 gage (outside diameter) color matched PVC coated galvanized steel wire.

2.06 LINE POSTS:

- A. 2-3/8 inches (60.3 mm) outside diameter steel pipe weighing not less than 3.65 lb/ft (5.4 kg/m), or 1-7/8 inch (47.6 mm) high carbon steel H-beams weighing not less than 2.70 lb/ft (4.0 kg/m).

2.07 END, CORNER, AND PULL POSTS:

- A. 2-7/8 inch (73 mm) outside diameter steel pipe weighing not less than 5.79 lb/ft (8.6 kg/m), or 2-1/2 inch (63.5 mm) square steel tube weighing not less than 5.14 lb/ft (7.6 kg/m), or 3-1/2 inch (89 mm) by 3-1/2 inch (89 mm) roll-formed, steel corner section weighing not less than 5.14 lb/ft (7.6 kg/m).

2.08 GATE POSTS:

- A. 2-7/8 inches (73 mm) outside diameter steel pipe and gate posts, for gate leaves up to and including 6 feet (1.8 m) wide, weighing not less than 5.79 lb. per ft., or 2-1/2 inch (63.5 mm) square steel tube weighing not less than 5.14 lb. per ft., or 3-1/2 inch (89 mm) by 3-1/2 inch (89 mm) roll-formed, steel corner section weighing not less than 5.14 lb/ft (7.6 kg/m).

- B. 4 inch (100 mm) outside diameter steel pipe, gate posts for gate leaves over 6 feet (1.8 m) wide and up to and including 13 feet (4 m) wide and weighing not less than 9.10 lb/ft (13.5 kg/m).
- C. 6-5/8 inch (168.3 mm) outside diameter steel pipe, gate posts for gate leaves over 13 feet (4 m) wide and up to and including 18 feet (5.5 m) weighing not less than 18.97 lb/ft (28.2 kg/m).

2.09 RAILINGS:

- A. 1-5/8 inch (41.3 mm) outside diameter steel pipe with minimum weight of 2.27 lb/ft (3.4 kg/m) or 1-5/8 inch (41.3 mm) by 1-1/4 inch (31.8 mm), 14-gage roll-form section, for top railing and railings for top middle and bottom braces between terminal posts and adjacent line posts.

2.10 TRUSS:

- A. 3/8 inch (9.5 mm) diameter steel rod diagonal truss braces between terminal adjacent line posts and for gate framework.

2.11 FITTINGS:

- A. Heavy-duty malleable iron or pressed steel fittings of suitable size to produce strong construction.

2.12 STRETCHER BARS:

- A. Flat bars with minimum cross section dimensions of 1/4-inch (6.4 mm) by 3/4 inch (19 mm), full height of fabric, secured with bar bands of minimum 11-gage sheet steel, spaced approximately 15 inches (380 mm) on centers and bolted with 3/8-inch (9.5 mm) diameter bolts, for attaching fabric to terminal posts.

2.13 GATE LEAF FRAMEWORK:

- A. 1-7/8 inch (47.6 mm) inch outside diameter steel pipe weighing 2.72 lb/ft (4 kg/m), minimum.

2.14 GATE HINGES:

- A. Heavy pattern of adequate strength for gate size, with large bearing surfaces for clamping or bolting in position.

2.15 LATCH:

- A. Gates with suitable latch, accessible from both sides and with provision for padlocking.

2.16 GATE PADLOCKS:

- A. Manufacturers:
 - 1. Eaton Corp. Lock & Hardware Div., Yale Marketing Dept., Charlotte, NC.

2. P&F Corbin, Div. of Emhart Corp., Berlin, CT.
3. Best Universal Lock Co., Inc., Indianapolis, IN. Solid brass cases hardened steel shackles, removable core cylinders, and galvanized steel chains attached to shackle by a clevis.

2.17 NOT USED

2.18 CONCRETE FOOTINGS:

- A. Concrete: Concrete shall be Class B with minimum compressive strength of 3000 psi at 28 days.

2.19 GROUT:

- A. One part Portland cement and three parts of clean, sharp, well-graded sand with minimum water for proper workability for posts set in solid rock.

2.20 PRIVACY SLATS: sized to fit mesh specified and install slats in direction indicated, securely locked in place.

- A. Material: PVC, UV-light stabilized, not less than 0.023 inch (0.58 mm) thick
- B. Material: Polyethylene tubular slats, not less than 0.023 inch (0.58 mm) thick manufactured for chain-link fences from virgin polyethylene containing UV inhibitor; with vandal-resistant fasteners and lock strips.
- C. Material: Fiber-glass-reinforced plastic, UV-light stabilized, not less than 0.06 inch (1.5 mm) thick, with vandal-resistant fasteners and lock strips.
- D. Material: Aluminum, not less than 0.01 inch (0.25 mm) thick,
- E. Color: As selected by Owner's representative from manufacturer's full range.

2.21 ACCESSORIES:

- A. Steel pipe dimensions and weights: ASTM A53/A53M, Schedule 40. Dimensions specified are nominal pipe sizes.
- B. Dimensions and weight tolerances: Plus or minus 5 percent.
- C. Zinc Coating: Minimum 2.0 ounces per square foot (610 grams per square meter).
- D. Provide posts with tops of same material, and designed to fit securely over post and carry top rail. Carry apron around outside of post at base of top fitting.
- E. Ferrous metal fittings, posts, fence, gate framework, and accessories galvanized with heavy coating of 2.0 oz/ft² (610 g/m²) pure zinc spelter per square foot or surface area to be coated. Use hot-dip process. Thinner zinc coatings, electro-galvanizing, zinc paint or cold galvanizing compounds not used as substitute for hot-dipped galvanized finish not acceptable.
- F. Fabricate and weld before hot-dip galvanizing. Weld conforming to American Welding

Society standards.

- G. Hot-dip galvanized gate frame, after welding, if bolted or riveted corner fittings not used.
- H. Galvanize fittings, posts, fence and gate framework, and accessories, then epoxy phenolic primed and top coated with matching PVC, using thermal bond process.
- I. Single and double leaf swing gates with center bolt, center stop, and automatic backstops.
- J. Cantilever sliding (rolling type) gate complete with latch, stop, keeper, rollers, heavy duty roller track, and 3 strands of barbed wire installed vertically above fabric and electrically operated.

PART 3 - EXECUTION

3.01 EXAMINATION:

- A. Examine conditions under which fence and gates are to be installed. Notify Owner's representative in writing, of improper conditions of work.
- B. Do not proceed with work until unsatisfactory conditions have been corrected.
- C. Verify measurements at site.
- D. Check location of underground work to make sure fence footings clear utilities and drainage work.
- E. Do not install fence until final grading is complete and finish elevations are established.
- F. Do not drive equipment on areas to be landscaped, except as accepted by Owner's representative. Areas not accessible from roads shall be protected with heavy wood planking. Remove barricades and protection at completion of project. Repair damaged landscape surfaces.

3.02 INSTALLATION:

- A. Footings:
 - 1. Vertical sides to minimize up-lift. Dispose of excavated material.
 - 2. Rod and compact concrete around posts. Slope top of footings above level of adjacent grade, and trowel finish.
 - 3. Size:
 - a. 6 inches (150 mm) minimum diameter, plus outside dimension of post.
 - b. Set corner, end, pull, and gate posts 42 inches (1050 mm) into concrete.

- c. Set line posts set 36 inches (900 mm) into concrete.
 - d. Total depth of concrete 6 inches (150 mm) greater than required for post embedment.
4. Time of Set: 48 hours before rails are erected or before fabric is applied or stretched.
- B. Framing:
- 1. Install line posts not more than 10 feet (3 m) apart.
 - 2. Install pull posts not more than 600 feet (183 m) apart where a straight run of fence exceeds 600 feet (183 m) and where fence line changes direction by more than 15 degrees but less than 30 degrees.
 - 3. Install corner posts where the fence line changes direction by more than 30 degrees.
 - 4. Set posts in concrete footings, plumb and true to line.
 - 5. Brace and truss end, pull, corner, and gate posts to adjacent line posts. Provide brace to match top rail spaced midway between top rail and tension wire and extending to adjacent line posts. Provide brace to match top rail spaced midway between top rail and tension wire and extending to adjacent line post. Truss diagonally with 5/16-inch (7.9 mm) diameter tension rod with turnbuckle.
 - 6. Fasten top rail to end, pull, gate and corner posts. Pass top rail through fittings of line posts.
 - 7. Provide expansion and contraction joints in top rail for each 100 linear feet (30.5 linear meters) of fence.
 - 8. Fasten bottom tension wire to end, pull, gate, corner, and line posts.
 - 9. Maximum area of unbraced fence shall not exceed 1,500 square feet (139.3 square meters).
 - 10. Use galvanized sleeve and grout posts or install with suitable galvanized flange casings and galvanized anchor bolts as accepted by Owner's representative.
 - 11. When rock is encountered, set posts into rock a minimum depth of 12 inches (300 mm) for line posts and 18 inches (450 mm) for terminal posts. If solid ledge is encountered without overburden of soil. Provide post holes at least 1 inch (25 mm) greater in diameter than post, fill post holes with concrete work post into hole taking care not to cause voids, remove excess concrete and crown remainder at top to shed water. Where solid rock is covered by overburden, do not exceed total setting depth required for setting in earth, grout posts into rock as described.
- C. Fabric:
- 1. Place fabric on outside of posts and stretch to avoid bulging or buckling.

2. Fasten at line posts, top rail, and bottom tension wire with aluminum or zinc PVC coated ties. Space ties not more than 15 inches (380 mm) apart on line posts and not more than 24 inches (600 mm) apart on rail and tension wire.
3. Fasten at terminal posts at intervals not exceeding 15 inches (380 mm) using flat or beveled galvanized steel bands with 5/16-inch (7.9 mm) x 1-1/4 inch (31.8 mm) galvanized carriage bolts and nuts.
4. Make tie connections on interior side of fence.
5. Provide steel angle metal closures where finished ground surface is more than two inches below bottom tension wire. Bolt steel angle to fence posts, and install reinforcing rods and bracing members as accepted. Install rods of accepted length vertically. Where drainage ditches cross fence line, provide concrete ditch lining and steel reinforcing bar grill.
6. Install three strands of barbed wire on each extension arm of line fence and at top of each gate. Pull wires taut and fasten at each support.
7. Install barbed wire on extension arms as indicated. Pull each wire taut, and make entire assembly secure. Attach wire to end, corner, pull, and gate posts with wire stretching bands.
8. Install gates plumb, level, and secure for full width of opening and hardware adjusted for smooth operation.
9. Electrical Ground where a power line carrying more than 600 volts passes over fence, install ground rod at nearest point directly below each point of crossing.

3.03 REPAIR:

- A. Remove and replace fencing which is improperly located or is not true to line, grade and plumb within tolerances as indicated.
- B. Repair damaged vinyl-coated components as recommended by manufacturer.

END OF SECTION

DIVISION 2
SITE WORK
SECTION 02950
SODDING

PART 1 - GENERAL

1.01 WORK INCLUDED:

- A. Furnish, place and water sod as indicated in the Contract documents.
- B. Review requirements under other sections and coordinate with the requirements of this section.

1.02 RELATED WORK:

- A. Section 02220: Excavation, Grading, Backfill and Compaction

PART 2 - PRODUCTS

2.01 MATERIALS:

- A. Sod:
 - 1. Sod shall be Floratam or Argentine Bahia. Other type of sod may be used if directed or approved by the Engineer. The sod shall be in commercial size rectangles, preferably 12" x 24" or larger. The CONTRACTOR shall be responsible for supplying sod sufficiently thick to secure a dense strand of live grass at a depth of two inches (2") as necessary to cover the full extent of the sodded area as directed by the Engineer.

PART 3 - EXECUTION

3.01 SOD PLACEMENT:

- A. Sod shall only be placed in areas where directed by the Engineer.
- B. Provide grading to obtain a maximum cross slope for the placement of sod between the **back** of sidewalk and the property of one (1) vertical to four-(4) horizontal.
- C. Provide grading to obtain a maximum cross slope for the placement of sod between the **front** of sidewalk and the property of one (1) vertical to four (4) horizontal.

- D. In addition, the ENGINEER may require the CONTRACTOR to provide sod at the following locations :
1. Areas surrounding tree removals and shrub removals.
 2. Areas in the Right of Way, that are not part of a driveway, where gravel, asphalt and concrete must be removed so that new sidewalks can be constructed.
 3. Areas where extensive site grading will be necessary.
- E. The CONTRACTOR shall be responsible for supplying sod sufficiently thick to secure a dense stand of live grass at a depth of two inches (2") as necessary to cover the full extent of the sodded area. No sod which has been cut for more than seventy-two (72) hours shall be used.
- F. Muck from excavation on-site shall not be used as fill material.
- G. Sod which is not planted within twenty-four (24) hours after cutting shall be stacked in an approved manner and maintained properly moistened.
- H. Any piece of sod which, after placing, shows an appearance of extreme dryness, shall be removed from the work and replaced with new healthy sod.
- I. Placing sod shall conform to Section 570 of the 2010 FDOT Standard Specifications for Road and Bridge Construction. Sod shall be placed with edges in close contact and shall be firmly and smoothly embedded by light tamping with appropriate tools.
- J. The area on which the sod is to be placed shall contain sufficient moisture for optimum results after being placed.
- K. The sod shall be kept in a moist condition for the duration of the contract period and in no case less than (30) days. The moistened conditions shall extend at least to the full depth of the rooting zone.
- L. No separate payments shall be made to the CONTRACTOR for watering the sod. All costs thereof shall be included in the contract unit price for sod, installed complete in place as specified.
- M. Any existing landscaping denoted to remain that is damaged during construction shall be replaced by the CONTRACTOR. The cost thereof shall be the CONTRACTOR's responsibility.

END OF SECTION



**CITY OF HOLLYWOOD
DEPARTMENT OF PUBLIC WORKS
ENGINEERING & ARCHITECTURAL SERVICES DIVISION**

NOTICE TO BIDDERS