A REGULAR MEETING
OF THE WESLACO CITY COMMISSION
TUESDAY, NOVEMBER 1, 2016

NOTICE IS HEREBY GIVEN THAT the City Commission of the City of Weslaco, Texas will hold a Regular Meeting in the Legislative Chamber of City Hall, located at 255 South Kansas Avenue, on Tuesday, November 1, 2016 at 5:30 PM for the purpose of discussing the following items:

NOTE: If during the course of the meeting, any discussion of any item on the agenda should be held in executive or closed session, the Weslaco City Commission will convene in such executive or closed session whether or not such item is posted as an executive session item at any time during the meeting when authorized by the provisions of the Texas Open Meetings Act.

I. CALL TO ORDER

A. Certification of Public Notice.
B. Invocation.
C. Pledge of Allegiance.
D. Mayoral recognition.
E. Roll Call.

II. PUBLICCOMMENTS

The Public Comments portion of the meeting promotes a fair and open process for the governance of the City. This portion of the meeting is not intended to be an extended discussion or a debate and is limited to three minutes for each presenter. Due to the Texas Open Meetings Act, the Mayor and City Commissioners do not reply; they listen. Matters under litigation are not to be addressed and comments regarding specific City employees and elected officials may be prohibited.

If you are discussing something not included on the agenda, the Commission cannot take any formal action until it is placed on an agenda and notice of the meeting is properly posted. Registration for Public Comments must be submitted to the City Secretary before the City Commission meeting is called to order. As the Mayor calls upon those who submitted a registration form with the City Secretary, please step to the podium and state your name and address before beginning your presentation.

III. CONSENTAGENDA

The following items are of a routine or administrative nature. The City Commission has been furnished with background and support material on each item, and/or it had been discussed at a previous meeting. All items will be acted upon by one vote without being discussed separately unless requested by one commission member, in which event the item or items will immediately be withdrawn for individual consideration in its normal sequence after the items not requiring separate discussion have been acted upon. The remaining items will be adopted by one vote. Possible action.

A. Approval of the following: Attachment.

1) Record of Workshop Meeting on October 18, 2016; Attachment

2) Minutes of the Regular Meeting on October 18, 2016. (Staffed by the City Secretary's Office.) Attachment.

B. Approval on second and final reading of the following:

1) Ordinance 2016-38 rezoning 2615 E. Sugarcane Dr., also being the 29.41 acres out of Farm Tract 62, West Tract Subdivision, Weslaco, Hidalgo County, Texas, from R-1 One Family Dwelling District to R-2 Duplex and Apartments District. (First reading of Ordinance 2016-38 held October 18, 2016; Staffed by Planning and Code Enforcement Department.) Attachment.

2) Ordinance 2016-39 rezoning 209 W. Sugarcane Dr., also being the 1.20 acre tract of land being the W132'-E528'-N396' out of Farm Tract 117, West Tract Subdivision, Weslaco, Hidalgo County, Texas, from R-1 One Family Dwelling District to R-2 Duplex and Apartments District. (First reading of Ordinance 2016-39 held October 18, 2016; Staffed by Planning and Code Enforcement Department.) Attachment.

C. Approval on First Reading of Ordinance 2016-42 authorizing and allowing, under the act governing the Texas Municipal Retirement System, "Update Service Credits" in said system on an annual basis for service performed by qualifying members of such system who at the effective date of the allowance are members of the City of Weslaco; providing for increased prior and current service annuities for retirees and beneficiaries of deceased retirees of the City; and establishing an effective date of January 1, 2017 for such actions. First Reading of Ordinance 2016-42. (Staffed by Finance Department.) Attachment.

D. Acceptance of donated funds from Mr. and Mrs. Santos Villanueva for exterior benches. (Staffed by Library Department.) Attachment

IV. APPOINTMENTS

A. Discussion and consideration to approve Resolution 2016-62 appointing one member to the Ambulance Advisory Board and authorize the Mayor to execute any related documents. Possible action. (Staffed by Fire Department). Attachment.

B. Discussion and consideration to approve Resolution 2016-63, 2016-64 and 2016-65 appointing members to the Economic Development Corporation of the Weslaco Board of Directors and authorize the Mayor to execute any related documents. Possible action. (Staffed by the Economic Development Corporation). Attachment.

C. Discussion and consideration to accept the resignation of Alan Gonzalez and approve Resolution 2016-66 appointing one member to an unexpired term on the Weslaco Mid Valley Airport Advisory Committee. Possible action. (Staffed by Airport.) Attachment.

V. NEWBUSINESS

A. Discussion and consideration to amend the contract with Severn Trent Services to adjust the annual base fee and compensation effective as of the adjustment date for the budget year 2016-2017 and authorize the Mayor to execute any related documents. Possible action. (Requested by Severn Trent.) Attachment

B. Discussion and consideration to approve sludge hauling at the Water Treatment Plant and authorize the Mayor to execute any related documents. Possible action. (Requested by Severn Trent.)

C. Discussion and consideration to order a new 2017 Fire Truck under the Weslaco Fire Department Apparatus Replacement Program as budgeted at a cost not to exceed $670,000.00 and authorize the Mayor to execute any related documents. Possible action. (Staffed by Fire Department.) Attachment

D. Discussion and consideration to authorize the solicitation of proposals for the demolition of the Old City Shop and related infrastructure, located at 306 South Bridge Street. Possible action. (Staffed by City Manager's Office.)

E. Discussion and consideration to approve final payment to Pavement Markings, LLC for the 6th Street Striping Project for an amount not to exceed $129,709.20 and authorize Mayor to execute any related documents. Possible Action. (Staffed by Planning and Code Enforcement Department) Attachment.

F. Discussion and consideration on update on the Boys and Girls Club building. Possible action. (Requested by Mayor David Suarez).

G. Discussion and consideration to allow the Mayor Joe V Sánchez Public Library to implement a Food for Fines program supporting local food drives and the RGV Food Bank during the Holiday Season and authorize the Mayor to execute any related documents. Possible action. (Staffed by the Library Department.) Attachment.

VI. REPORTS

A. Quarterly Investment Report - Finance Department. Possible action to accept and file.

B. Report by Weslaco Area Chamber of Commerce.

C. Report by Economic Development Corporation of Weslaco.

D. Report by Severn Trent.

E. Report by Planning and Code Enforcement.

F. Report by Public Works.

G. Report by Parks and Recreation Department.

H. Report by Fire Department.

I. Report by Library.

VII. EXECUTIVESESSION

Texas Government Code, Section 551 Open Meetings:

§551.145. Closed Meeting Without Certified Agenda or Tape Recording; Offense; Penalty

(a) A member of a government body commits an offense if the member participates in a closed meeting of the governmental body knowing that a certified agenda of the closed meeting is not being kept or that a tape recording of the closed meeting is not being made.

(b) An offense under Subsection (a) is a Class C misdemeanor.

§551.146. Disclosure of Certified Agenda or Tape Recording of Closed Meeting; Offense; Penalty; Civil Liability

(a) An individual, corporation, or partnership that without lawful authority knowingly discloses to a member of the public the certified agenda or tape recording of a meeting that was lawfully closed to the public under this chapter:

(1) commits an offense; and

(2) is liable to a person injured or damaged by the disclosure for:

(A) actual damages, including damages for personal injury or damage, lost wages, defamation, or mental or other emotional distress;

(B) reasonable attorney fees and court costs; and

(C) at the discretion of the trier or fact, exemplary damages.

(b) An offense under Subsection (a)(1) is a Class B misdemeanor.

(c) It is a defense to prosecution under Subsection (a)(1) and an affirmative defense to a civil action under Subsection (a)(2) that:

(1) the defendant had good reason to believe the disclosure was lawful; or

(2) the disclosure was the result of a mistake of fact concerning the nature or content of the certified agenda or tape recording. (Added by Acts 1993, 73rd Leg., ch 268, § 1, eff. Sept. 1, 1993.)

NOTE: Any documentation related to the following items will be maintained as part of the certified agenda.

A. Personnel - Discussion regarding the goals, objectives, and evaluation of the City Manager for the City of Weslaco as authorized by §551.074 of the Texas Government Code.

B. Economic Development – Consultation with City Attorney regarding Economic Development opportunities and incentive programs related to industrial prospects, including Project Chicken Hatch "B", as well as retail and airport development as authorized by §551.087 of The Texas Government Code.

C. Economic Development – Consultation with City Attorney regarding Economic Development incentive programs related for retail development Project Ocean as authorized by §551.087 of The Texas Government Code.

D. Pending Litigation - Consultation with City Attorney regarding *City of Weslaco v. Briones Consulting and Engineering* as authorized by §551.071 of the Texas Government Code.

E. Real Property - Consultation with City Attorney on the sale, exchange, lease or value of real property located at 1411 W. 18th Street, Weslaco, Texas as authorized by §551.072 of the Texas Local Government Code.

VIII. POSSIBLEACTIONONWHATISDISCUSSEDINEXECUTIVE SESSION

IX. ADJOURNMENT

I hereby certify this **Notice of a Regular Meeting of the Weslaco City Commission** was posted in accordance with the Open Meetings Act on the outside bulletin board at City Hall of the City of Weslaco, located at the 255 South Kansas Avenue entrance, visible and accessible to the general public during and after regular working hours. This notice was posted on this 28th day of October, 2016 at 4:30 p.m. and will remain so posted continuously for at least 72-hours preceding the scheduled time of this meeting in accordance with Chapter 551 of the Texas Government Code.

/s/ Elizabeth M. Walker, City Secretary

NOTE: If any accommodation for a disability is required, please notify the City Secretary's Office at (956) 968-3181, Ext. 3100 prior to the meeting date.

Regular Meetings of the Weslaco City Commission stream live online at http://www.weslacotx.gov/Agendas.html. Archived video of some meetings are also available.

Removed from Bulletin Board	Date:	Initials:

Standardized Agenda Request Form

Date of Meeting: November 1, 2016	**Agenda Item No.** (to be assigned by CSO)**:** 2016-495

From:

Subject:
Certification of Public Notice.

Background:
Call to Order, includes the following:
A. Certification of Public Notice.
B. Invocation.
C. Pledge of Allegiance.
D. Mayoral recognition.
E. Roll Call

Funding Source (budget code, if applicable)**:**

Amount:	Term of Impact:	Identified in Current Budget:

Additional Action Prompted:

If item previously considered, provide date and action by Commission:

If item requires Publication Notice, provide date and periodical of publication; indicate if comments received from letters mailed to property owners:

Advisory Review, if any (name of board/committee, date of action, recommendation)**:**

Elizabeth Walker	Created/Initiated
Elizabeth Walker	Approved
Mike Perez	Final Approval

City Manager Comments:

Staff Recommendation:
A. Mayor will Call to Order and certify Public Notice.
B. Pastor Danny Anderson, First Christian Church, will lead the invocation.
C. Mayor will lead Pledge of Allegiance; Mayor Pro-Tem may lead Texas Flag.
D. Mayoral recognition.
E. City Secretary will call roll.
Four or more Commissioners present constitute a Quorum; otherwise, no action may be taken.

Attachments, if any:
Pledge and Mission

Responsibilities upon Approval:

City of Weslaco

"The City on the Grow"

David Suarez, Mayor
Olga M. Noriega, Mayor Pro-Tem, District 3
Leo Muñoz, Commissioner, District 1
Greg Kerr, Commissioner, District 2
Gerardo "Jerry" Tafolla, Commissioner, District 4
Letty Lopez, Commissioner, District 5
Fidel L. Peña, III, Commissioner, District 6

Mike R. Perez, City Manager

The Pledge of Allegiance to the Flag

"I PLEDGE ALLEGIANCE TO THE FLAG OF THE UNITED STATES OF AMERICA AND TO THE REPUBLIC FOR WHICH IT STANDS, ONE NATION UNDER GOD, INDIVISIBLE, WITH LIBERTY AND JUSTICE FOR ALL."

The Pledge of Allegiance to the State Flag

"Honor the Texas flag; I pledge allegiance to thee, Texas, one state under God, one and indivisible."
**The pledge was amended by House Bill 1034 during the 80th Legislature with the addition of "one state under God." The revised wording became effective on June 15, 2007.*

Preamble to the Constitution of the United States of America

We the people of the United States, in order to form a more perfect union, establish justice, insure domestic tranquility, provide for the common defense, promote the general welfare, and secure the blessings of liberty to ourselves and our posterity, do ordain and establish this Constitution for the United States of America.

STATEMENT OF VISION: AN INTERNATIONAL CENTER OF GROWTH

Friendly people with vision, courage and integrity

STATEMENT OF MISSION: COMMITMENT TO EXCELLENCE IN PUBLIC SERVICE

*Positive Attitude of Courtesy & Concern
*Doing it Right the First Time
*Sensitive to the citizens' needs
*Friendly Respect for All
*Service without Hassle

RECORD - WORKSHOP
OF THE WESLACO CITY COMMISSION
TUESDAY, OCTOBER 18, 2016

On this 18th day of October, 2016 at 5:15 p.m., the City Commission of the City of Weslaco, Texas convened in a Workshop at City Hall in the Legislative Chamber Room located at 255 S. Kansas Avenue with the following members present:

Mayor	David Suarez
Mayor Pro-Tem	Olga M. Noriega
Commissioner	Gerardo "Jerry" Tafolla
Commissioner	Letty Lopez
Commissioner	Leo Muñoz
Commissioner	Fidel Peña III
City Manager	Mike R. Perez
City Secretary	Elizabeth M. Walker

Also present: Jose Pena, IT Director; Mardoqueo Hinojosa, Planning and Code Enforcement Director; Mary Barrera, Finance Director; Veronica Ramirez, Human Resources Director; David Arce Parks Director, Chief Stephen Mayer, Police; Andrew Muñoz, Airport Director; and citizens.

I. CALL TO ORDER

A. Certification of Public Notice.

The Mayor called the meeting to order and certified the public notice of the meeting as properly posted Friday, October 14, 2016.

B. Roll Call.

Elizabeth Walker, City Secretary, called the roll, noting the absence of Commissioner Kerr.

II. NEW BUSINESS

A. Discussion and consideration of the Mid Valley Airport Business Plan. (Staffed by KSA and Airport.)

Andrew Muñoz, Airport Director, stated the Advisory Board for the Airport, KSA Engineering and TXDOT were present. Craig Phipps, KSA Engineering, gave an update two projects: 1) the runway improvements project that included widening the runway to 75', pavement repairs and drainage improvements and 2) the runway extension project to 6,000'. The projects were funded through federal grants with a local match of 10%. The airport was recognized as the most improved at the recent TXDOT Aviation Conference; they are now working on a drainage plan for the airport.

Michael Mallonee, KSA Engineering, reviewed the Airport Business Plan outlining the goals, objection and mission that will make the airport by 2025 an active economic contributor to the entire Rio Grande Valley highlighting projects, drainage plan, and market analysis.

There was no action.

B. Discussion and consideration of a Smoking Ordinance. (Staffed by City Manager's Office.)

Mike Perez, City Manager, presented a draft ordinance and ordinances from the cities of Edinburg, McAllen and Pharr for consideration. Staff recommends a 30-day review to follow with public hearings and allow education process on implementation. Fifty-two cities in Texas have adopted a smoke free ordinance.

There was no action.

III. ADJOURNMENT

With no other business before the Commission, Commissioner Tafolla, seconded by Commissioner Muñoz, moved to adjourn at 5:30 p.m. on October 18, 2016.

CITY OF WESLACO

_____

MAYOR, David Suarez

ATTEST:

_____

CITY SECRETARY, Elizabeth Walker

A REGULAR MEETING
OF THE WESLACO CITY COMMISSION
TUESDAY, OCTOBER 18, 2016

On Tuesday, October 18, 2016, 2016 at 5:35 PM the City Commission of the City of Weslaco, Texas convened in a Regular Meeting at City Hall in the Legislative Chamber, located at 255 South Kansas Avenue with the following members present:

Mayor	David Suarez
Mayor Pro-Tem	Olga M. Noriega
Commissioner	Leo Muñoz
Commissioner	Gerardo "Jerry" Tafolla
Commissioner	Letty Lopez
Commissioner	Fidel Peña
City Manager	Mike Perez
City Secretary	Elizabeth Walker
City Attorney	Juan E. Gonzalez

Also present: Mary Barrera, Finance Director; Veronica Ramirez, Human Resources Director; Jose Pena, IT Director; Tony Vargas, Supervisor Public Works; Stephen Mayer, Police Chief; Mardoqueo Hinojosa, Planning and Code Enforcement Director and City Engineer; David Arce, Parks and Recreation Director; Arnold Becho, Library Director; Andrew Munoz, Airport Director; and other staff members and citizens.

I. CALL TO ORDER

A. Certification of Public Notice.

Mayor David Suarez called the meeting to order and certified the public notice of the meeting as properly posted Friday, October 14, 2016.

B. Invocation.

Pastor Art Beckwith, RGV Fellowship Church, led the invocation.

C. Pledge of Allegiance.

Mayor Suarez led the Pledge of Allegiance and Texas Flag.

D. Signing Ceremony with Texas A&M - Kingsville.

Mayor Suarez welcomed Texas A&M Kingsville Engineering Initiative leaders, Dr. Steven H. Tallant, President of Texas A&M Kingsville, and Richard S. Talbert, President of Weslaco EDC, in the collaboration efforts in bringing engineering courses to Weslaco.

E. Mayoral recognition.

There were none.

F. Roll Call.

Elizabeth Walker, City Secretary, called the roll, noting the absence of Commissioner Kerr.

II. PUBLIC COMMENTS

Rosbel Mendiola, Mendiola Concrete, stated he has not received full payment as a sub-contractor for the Boys and Girls Club Project from J Con Contractor for well over a year.

III. PUBLIC HEARING

Commissioner Tafolla, seconded by Mayor Pro Tem Noriega, moved to open the public hearing concurrently for items A through D at 6:04 p.m. The motion carried unanimously; Mayor Suarez was present and voting.

A. To solicit input on behalf of Nilda Peña for a Conditional Use Permit to operate a daycare at 2301 E. 12th St., also being Lot 1, Blk 3, La Paloma de las Sombras Subdivision, Weslaco, Hidalgo County, Texas. (Staffed by Planning and Code Enforcement Department.)

No comments received.

B. To solicit input on behalf of South Texas Collaborative for Housing Development to rezone 2615 E. Sugarcane Dr., also being the 29.41 acres out of Farm Tract 62, West Tract Subdivision, Weslaco, Hidalgo County, Texas, from R-1 One Family Dwelling District to R-2 Duplex and Apartments District. (Staffed by Planning and Code Enforcement Department.)

Sunny Phillips stated previous commission action supported the development of the project that would provide affordable housing in the community. The development is a $30-million-dollar construction project in partnership with the Weslaco Housing Authority, proposing 242 units. He requested favorable consideration to the rezone.

C. To solicit input on behalf of Fernando Garcia to rezone 209 W. Sugarcane Dr., also being the 1.20 acre tract of land being the W132'-E528'-N396' out of Farm Tract 117, West Tract Subdivision, Weslaco, Hidalgo County, Texas, from R-1 One Family Dwelling District to R-2 Duplex and Apartments District. (Staffed by Planning and Code Enforcement Department.)

There were no comments received.

D. To solicit input on behalf of Hidalia Ocaña dba ProDental Lab to rezone 410 N. Kansas Ave., also being Lots 6 and 7, Block 5, Gonzalez Addition Subdivision, Weslaco, Hidalgo

County, Texas, from R-1 One Family Dwelling District to B-1 Neighborhood Business District. (Staffed by Planning and Code Enforcement Department.)

Hidalia Ocana, applicant, stated the business is a dental lab that works for other dentists; it has been in Weslaco for 6 years, relocating to 410 N. Kansas Avenue and will not have any through traffic.

Commissioner Tafolla, seconded by Commissioner Muñoz, moved to close the public hearing at 6:18 p.m. The motion carried unanimously; Mayor Suarez was present and voting.

IV. CONSENT AGENDA

The following items are of a routine or administrative nature. The City Commission has been furnished with background and support material on each item, and/or it had been discussed at a previous meeting. All items will be acted upon by one vote without being discussed separately unless requested by one commission member, in which event the item or items will immediately be withdrawn for individual consideration in its normal sequence after the items not requiring separate discussion have been acted upon. The remaining items will be adopted by one vote. Possible action.

A. Approval of the Minutes of the Regular Meeting on October 4, 2016 (Staffed by City Secretary's Office.)

B. Approval on request from Weslaco Independent School District for Mutual Termination of Ground Lease dated July 18, 2013 for real property located at Farm Tract 47, West Tract Subdivision (Horton School campus) and authorize the Mayor to execute any related documents. (Staffed by the City Manager's Office).

C. Approval of the renewals of the Professional Services Agreements as recommended by the Weslaco Hotel Occupancy Tax Advisory Committee:

1. Weslaco Area Chamber of Commerce - $178,613.00;
2. Frontera Audubon - $32,500.00;
3. Valley Nature Center - $32,500.00;

and authorize the Mayor to execute any related documents. (Staffed by Finance Department.)

D. Approval of a renewal of participation in a regional public transportation system, Valley Metro, for Route 31 in an amount not to exceed $30,000.00 and authorize the Mayor to execute any related documents. (Staffed by City Manager's Office.)

E. Authorization to submit an application renewing the ERate 2017-2018 Grant program, the acceptance of funds upon award, the acceptance of additional funding if awarded during the grant year, and authorization to have the Mayor to execute any related documents. (Staffed by the Library Department.)

F. Authorization to apply for two grants, the (1) Fiscal Year 2017 HSGP (Homeland Security Grant Program) and (2) LETPA (Law Enforcement Terrorism Prevention Activities) and authorize the Mayor to execute any related documents. (Staffed by Weslaco Police Department.)

Commissioner Muñoz, seconded by Commissioner Peña, moved to approve consent agenda items A through F as presented. The motion carried unanimously, Mayor Suarez was present and voting.

V. APPOINTMENTS

A. Discussion and consideration to approve Resolution 2016-61 appointing one member to the Parks and Recreation Advisory Board and authorize the Mayor to execute any related documents. Possible action. (Staffed by the Parks and Recreation Department.)

Mayor Pro Tem Noriega, seconded by Commissioner Lopez, moved to approve Resolution 2016-61to re-appoint Rick Rodriguez to the Parks and Recreation Advisory Board. The motion carried unanimously; Mayor Suarez was present and voting.

The resolution is as follows:

RESOLUTION NO. 2016-61

A RESOLUTION OF THE CITY OF WESLACO APPOINTING ONE MEMBER TO THE PARKS & RECREATION BOARD.

WHEREAS, the City of Weslaco has established the Parks & Recreation Board pursuant to Section 98-83 of the Weslaco Municipal Code of Ordinances; and

WHEREAS, the terms of the members of this board are for three years; however, following the restructuring of this Board to consist of seven members, certain terms shall be assigned for two years so that terms are staggered such that no quorum of members expires simultaneously; and

WHEREAS, the Parks & Recreation Board members shall serve without compensation; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF WESLACO, TEXAS THAT Enrique "Rick" Rodriguez is appointed to serve a three-year term on the Parks & Recreation Board and the term will begin on November 18, 2016 and end on November 18, 2019.

PASSED AND APPROVED on this 18th day of October 2016.

CITY OF WESLACO
/s/David Suarez, MAYOR

ATTEST:
/s/Elizabeth M. Walker, CITY SECRETARY

APPROVED AS TO FORM:
/s/Juan E. Gonzalez, CITY ATTORNEY

VI. OLD BUSINESS

A. Discussion and consideration to reject all responses received to the invitation for Request for Qualifications No. 2015-16-08 Energy Services Companies for Performance Contracting and authorize the return of all proposals unopened. Possible action. (This item was tabled June 7, 2016; Staffed by City Manager's Office.)

Mayor Pro Tem Noriega, seconded by Commissioner Tafolla, moved to remove the item from the table. The motion carried unanimously; Mayor Suarez was present and voting.

Mike Perez, City Manager, recommended to open the requests for qualifications, appoint a committee composed of two members of the Commission with Mary Barrera, Mardoqueo Hinojosa, and himself to review.

Commissioner Tafolla, seconded by Mayor Pro Tem Noriega, moved to accept the recommendation by the City Manager to open the requests for qualifications and appoint Mayor, Commissioner Tafolla, Mardoqueo Hinojosa, Mary Barrera and City Manager to the committee.

Commissioner Peña recommended Commissioner Muñoz be appointed.

Commissioner Tafolla, seconded by Mayor Pro Tem Noriega, moved to amend the motion to also appoint Commissioner Muñoz The motion carried unanimously; Mayor Suarez was present and voting.

The original motion carried unanimously; Mayor Suarez was present and voting.

B. Discussion and consideration to award the Workers' Compensation Insurance to the best qualified, most advantageous bidder and authorize the Mayor to execute any related documents. Possible action. (This item was tabled September 20, 2016; Staffed by Human Resources.)

Commissioner Tafolla, seconded by Commissioner Lopez, moved to remove the item from the table. The motion carried unanimously; Mayor Suarez was present and voting.

Veronica Ramirez, HR Director, stated previous action from the commission was to solicit bids from TML for a self-insured option. Roger Garza, Consultant, reviewed and evaluated all options presented from Montalvo Insurance and TML and recommended to award TML the fully funded option as the best value and less exposure to the City. Staff recommends approval to award TML.

Commissioner Tafolla, seconded by Commissioner Lopez, moved to award as recommended by staff the Workers' Compensation Insurance as fully funded option to Texas Municipal League. The motion carried unanimously; Mayor Suarez was present and voting.

C. Discussion and consideration to approve a Mutual Lease Agreement with the Boys and Girls Club of Weslaco for the use of the facility located at 300 N. Airport, Suite B and authorize the Mayor to execute any related documents. Possible action. (This item was tabled October 4, 2016; staffed by Parks and Recreation Department.)

Commissioner Peña, seconded by Commissioner Muñoz, moved to remove the item from the table. The motion carried unanimously; Mayor Suarez was present and voting.

David Arce, Parks Director, stated the lease was reviewed by the City Attorney and amended Section 4.03 to reflect, "Lessee shall maintain liability insurance that will protect the City from any third party claims." Staff recommends approval. In response to Commissioner Peña, the Boys and Girls Club will need to be notified of the amendment.

Commissioner Peña, seconded by Commissioner Tafolla, moved to approve the Mutual Lease Agreement with the Boys and Girls Club of Weslaco for the use of the facility located at 300 N. Airport, Suite B as presented and recommended by staff. The motion carried unanimously; Mayor Suarez was present and voting.

VII. NEW BUSINESS

A. Discussion and consideration after public hearing on behalf of Nilda Peña to approve Conditional Use Permit to operate a daycare at 2301 E. 12th St., also being Lot 1, Block 3, La Paloma de las Sombras Subdivision, Weslaco, Hidalgo County, Texas and authorize the Mayor to execute any related documents. Possible action. (Staffed by Planning and Code Enforcement Department.)

Mardoqueo Hinojosa, Planning Director, stated this an existing day care that has been in operation for 21 years and is changing ownership. Planning and Zoning Commission and staff recommend approval.

Commissioner Tafolla, seconded by Commissioner Muñoz, moved to approve a Conditional Use Permit to operate a daycare at 2301 E. 12th Street as presented. The motion carried unanimously; Mayor was present and voting.

B. Discussion and consideration after public hearing on behalf of South Texas Collaborative for Housing Development to approve Ordinance 2016-38 rezoning 2615 E. Sugarcane Dr., also being the 29.41 acres out of Farm Tract 62, West Tract Subdivision, Weslaco, Hidalgo County, Texas, from R-1 One Family Dwelling District to R-2 Duplex and Apartments District. First reading of Ordinance 2016-38. Possible action. (Staffed by Planning and Code Enforcement Department.)

Mardoqueo Hinojosa stated twenty-five property owners were notified with one objection. Planning and Zoning Commission recommended denial. Staff recommends approval as the development will serve as a buffer to adjacent school and commercial/industrial development.

In response to Mayor Suarez and Commissioner Tafolla the development will not interfere with airport activity and apartment units will be limited to a three story development. In response to Commissioner Muñoz, Sunny Phillips stated under TDHCA guidelines the property must be maintained for by the applicant 15-years and as an affordable community project for a 30-years.

Mike Perez, City Manager, stated the construction of the building must meet sound attenuating construction standards. This will minimize noise levels so tenants will not complain of airport traffic and such note should be placed on the plat.

Mardoqueo Hinojosa stated a super majority is needed as the item was recommended for denial by the Planning and Zoning Commission. In response to Commissioner Muñoz, the denial was because development was not consistent with the commercial/industrial zoning districts.

Commissioner Tafolla, seconded by Commissioner Muñoz, moved to approve Ordinance 2016-38 rezoning 2615 E. Sugarcane Dr., as presented. The motion carried by super-majority with Commissioner Muñoz opposed (5-1); Mayor Suarez was present and voting.

C. Discussion and consideration after public hearing on behalf of Fernando Garcia to approve Ordinance 2016-39 rezoning 209 W. Sugarcane Dr., also being the 1.20-acre tract of land being the W132'-E528'-N396' out of Farm Tract 117, West Tract Subdivision, Weslaco, Hidalgo County, Texas, from R-1 One Family Dwelling District to R-2 Duplex and Apartments District. First reading of Ordinance 2016-39. Possible action. (Staffed by Planning and Code Enforcement Department.)

Mardoqueo Hinojosa stated the development is two blocks from Texas Boulevard and adjacent to existing apartment district. Twenty property owners were notified with no objection. Planning and Zoning Commission and staff recommend approval.

Commissioner Lopez, seconded by Commissioner Peña, moved to approve to Ordinance 2016-39 rezoning 209 W. Sugarcane Dr., as presented. The motion carried unanimously, Mayor Suarez was present and voting.

D. Discussion and consideration after public hearing on behalf of Hidalia Ocaña dba ProDental Lab to approve Ordinance 2016-40 rezoning 410 N. Kansas Ave., also being Lots 6 and 7, Block 5, Gonzalez Addition Subdivision, Weslaco, Hidalgo County, Texas, from R-1 One Family Dwelling District to B-1 Neighborhood Business District. First reading of Ordinance 2016-40. Possible action. (Staffed by Planning and Code Enforcement Department.) .

Commissioner Tafolla, seconded by Commissioner Lopez, moved to approve.

Mardoqueo Hinojosa stated twenty-five property owners were notified with no response received. Staff recommends denial as the location is within a residential district; Planning and Zoning Commission recommended approval.

In response to Commissioners Muñoz and Peña, 5 parking spaces would be required; if rezoned the use remains neighborhood business district regardless of ownership. Planning and Zoning Commission recommend approval citing the area is transitioning towards neighborhood businesses and the rezone is not harmful to the neighborhood.

In response to Commissioners Muñoz and Tafolla, a complaint was received of business activity in a residential area. The original use and plans submitted were residential; when inspections were done, the contractor stated it was a residence and changes to the original layout were done afterwards. Commissioner Tafolla recommended penalties be imposed if changes are not declared from the use originally requested.

Mike Perez, City Manager, recommended applicant be issued a conditional use permit for a home occupation that is non-transferable and approve a variance to allow employees; there would allow no rezone of the property. Commissioner Tafolla rescinded his motion.

Commissioner Tafolla, seconded by Commissioner Lopez, moved to deny the rezone and approve a Conditional Use Permit for a non-transferable home occupation and approve a variance to allow employees as recommended. The motion carried unanimously, Mayor Suarez was present and voting.

E. Discussion and consideration to approve the final plat of Descanso Subdivision, being 5.278 acres out of Farm Tract 743, West and Adams Tract Subdivision, Weslaco, Hidalgo County, Texas. Possible action. (Staffed by Planning and Code Enforcement Department.)

Mardoqueo Hinojosa stated previous commission action approved a rezone of the property. The developer is dedicating 75-feet of right-of-way for drainage on the north side and requesting a variance to the rear setback from 25 feet to 10 feet. Planning and Zoning Commission and staff recommend approval.

Commissioner Peña, seconded by Commissioner Tafolla, moved to approve the final plat of Descanso Subdivision and grant variance to the rear setback from 25 to 10 feet as recommended. The motion carried unanimously; Mayor Suarez was present and voting.

F. Discussion and consideration to amend the policy for the write-off of uncollectible EMS billings. Possible action. (Staffed by Finance Department.)

Mary Barrera recommended adjusting approval authority amounts by the Finance Director from $500 to $1,500, by the City Manager from $1,500 to $2,500 and by the Commission greater than

$2,500. The changes would reflect the revised Master Fee Schedule for EMS billings services. Staff recommends approval.

Commissioner Peña, seconded by Commissioner Lopez, moved to approve and amend the policy for write-off of uncollectible for EMS billings as presented. The motion carried unanimously, Mayor Suarez was present and voting.

G. Discussion and consideration to approve the Airport Business Plan and authorize the Mayor to execute any related documents. Possible action. (Staffed by Airport.)

Andrew Muñoz, Airport Director, stated the Airport Business Plan was presented to the Airport Advisory Board which recommended unanimous approval to the Commission. It was presented earlier to the Commission in Workshop.

Mayor Pro Tem Noriega, seconded by Commissioner Lopez, moved to approve the Airport Business Plan as presented. The motion carried unanimously, Mayor Suarez was present and voting.

H. Discussion and consideration to authorize the submission of the Weslaco Mid Valley Airport's Fiscal Year 2016-2017 Texas Department of Transportation Grant for Routine Airport Maintenance Program, Project M1721WESL, in the amount not to exceed $100,000.00 with a 50/50 cost share, and authorize the Mayor to execute any related documents. Possible action. (Staffed by Airport.)

Andrew Muñoz stated the grant would allow for proposed repairs to the terminal building and reimbursements to the budget for operation and maintenance costs. The Advisory Board and staff recommend approval.

Commissioner Tafolla, seconded by Commissioner Lopez, moved to approve the submission of the Weslaco Mid Valley Airport's Fiscal Year 2016-2017 Texas Department of Transportation Grant for Routine Airport Maintenance Program, Project M1721WESL, in the amount not to exceed $100,000.00 with a 50/50 cost share. The motion carried unanimously, Mayor Suarez was present and voting.

I. Discussion and consideration to accept the 2016 COPS Hiring Grant awarded to Weslaco Police Department to hire four police officers dedicated to community policing and authorize the Mayor to execute any related documents. (Staffed by Police Department.)

Chief Mayer stated notification of a grant award was received in the amount of $500,000 to be used over a three-year period in salary and benefits for four additional police officers. The City local match over the three-year period would be $242,580.20. Staff recommends approval.

Mayor Pro Tem Noriega, seconded by Commissioner Tafolla, moved to approve and accept the 2016 COPS Hiring Grant to hire four police officers. The motion carried unanimously, Mayor Suarez was present and voting.

J. Discussion and consideration to approve Proposal PSF16-341-00 from Raba Kistner Environmental, Inc. in the amount not to exceed $189,900.00, for the four-year Landfill Post-Closure Care Monitoring as stated on RFP 2015-16-13. (Staffed by Public Works Department.)

Olga Garza, Assistant Public Works Director, stated previous commission action awarded the proposal by Raba Kistner. Mike Perez stated staff met on several occasions to negotiate the fee that included a 10% discount ($21,252). Monitoring of the landfill satisfies TCEQ requirements and staff recommends approval of the proposal from Raba Kistner Environmental Inc.

Commissioner Tafolla, seconded by Commissioner Muñoz, moved to approve Raba Kistner Environmental, Inc. proposal in the amount not to exceed $189,900.00, for the four-year Landfill Post-Closure Care Monitoring for Alton Landfill. The motion carried unanimously, Mayor Suarez was present and voting.

K. Discussion and consideration to approve the architectural fee negotiated with ROFA architects for roof repairs at the Mayor Joe V. Sanchez Public library. Possible action. (Staffed by the Library Department.)

Arnold Becho, Library Director, stated staff negotiated a fee for the roof repairs at the library. ROFA Architects is proposing a fee in the amount of 10% based on actual construction costs. Staff recommends approval.

Commissioner Lopez, seconded by Commissioner Peña, moved to approve the architectural fee negotiated with ROFA architects for roof repairs at the Mayor Joe V. Sanchez Public library as recommended. The motion carried unanimously, Mayor Suarez was present and voting.

VIII. EXECUTIVE SESSION

At 7:02 p.m. Mayor Suarez announced the regular meeting to convene in executive Session. At 7:12 p.m. Mayor Suarez announced the City Commission had completed its executive session and reconvened the regular meeting as open to the public.

IX. POSSIBLE ACTION ON WHAT IS DISCUSSED IN EXECUTIVE SESSION

A. Personnel - Discussion regarding the goals, objectives, and evaluation of the City Manager for the City of Weslaco as authorized by §551.074 of the Texas Government Code.

There was no action on this item.

B. Economic Development – Consultation with City Attorney regarding Economic Development opportunities and incentive programs related to industrial prospects, including Project Chicken Hatch "B", as well as retail and airport development as authorized by §551.087 of The Texas Government Code.

There was no action on this item.

C. Economic Development – Consultation with City Attorney regarding Economic Development incentive programs related for retail development Project Ocean as authorized by §551.087 of The Texas Government Code.

There was no action on this item.

X. ADJOURNMENT

Commissioner Tafolla, seconded by Commissioner Munoz, moved to adjourn at 7:12 p.m. The motion carried unanimously; Mayor Suarez was present and voting.

CITY OF WESLACO

_____
MAYOR, David Suarez

ATTEST:

_____
CITY SECRETARY, Elizabeth Walker

_____
MAYOR PRO-TEM, Olga Noriega

_____
COMMISSIONER, Leo Muñoz

ABSENT
_____
COMMISSIONER, Greg Kerr

_____
COMMISSIONER, Gerardo "Jerry" Tafolla

_____
COMMISSIONER, Letty Lopez

_____
COMMISSIONER, Fidel L. Peña, III

Standardized Agenda Request Form

Date of Meeting: November 1, 2016	**Agenda Item No.** (to be assigned by CSO)**:** 2016-489

From:
Mardoqueo Hinojosa

Subject:
Ordinance 2016-38 rezoning 2615 E. Sugarcane Dr., also being the 29.41 acres out of Farm Tract 62, West Tract Subdivision, Weslaco, Hidalgo County, Texas, from R-1 One Family Dwelling District to R-2 Duplex and Apartments District. (First reading of Ordinance 2016-38 held October 18, 2016; Staffed by Planning and Code Enforcement Department.)

Background:
The applicant is requesting to rezone property from R-1 One Family Dwelling District to R-2 Duplex and Apartments District. Twenty-five (25) property owners within 200 feet of the applicant's property were notified by letter on September 30, 2016.

Funding Source (budget code, if applicable)**:**

Amount:	Term of Impact:	Identified in Current Budget:

Additional Action Prompted:
Mayor's Signature
Public Hearing
Ordinance - First Reading
Ordinance - Final Reading

If item previously considered, provide date and action by Commission:

If item requires Publication Notice, provide date and periodical of publication; indicate if comments received from letters mailed to property owners:

Notice of the application and the public hearing for the Planning and Zoning Commission and the City Commission appeared in The Monitor on September 26, 2016.

Advisory Review, if any (name of board/committee, date of action, recommendation)**:**

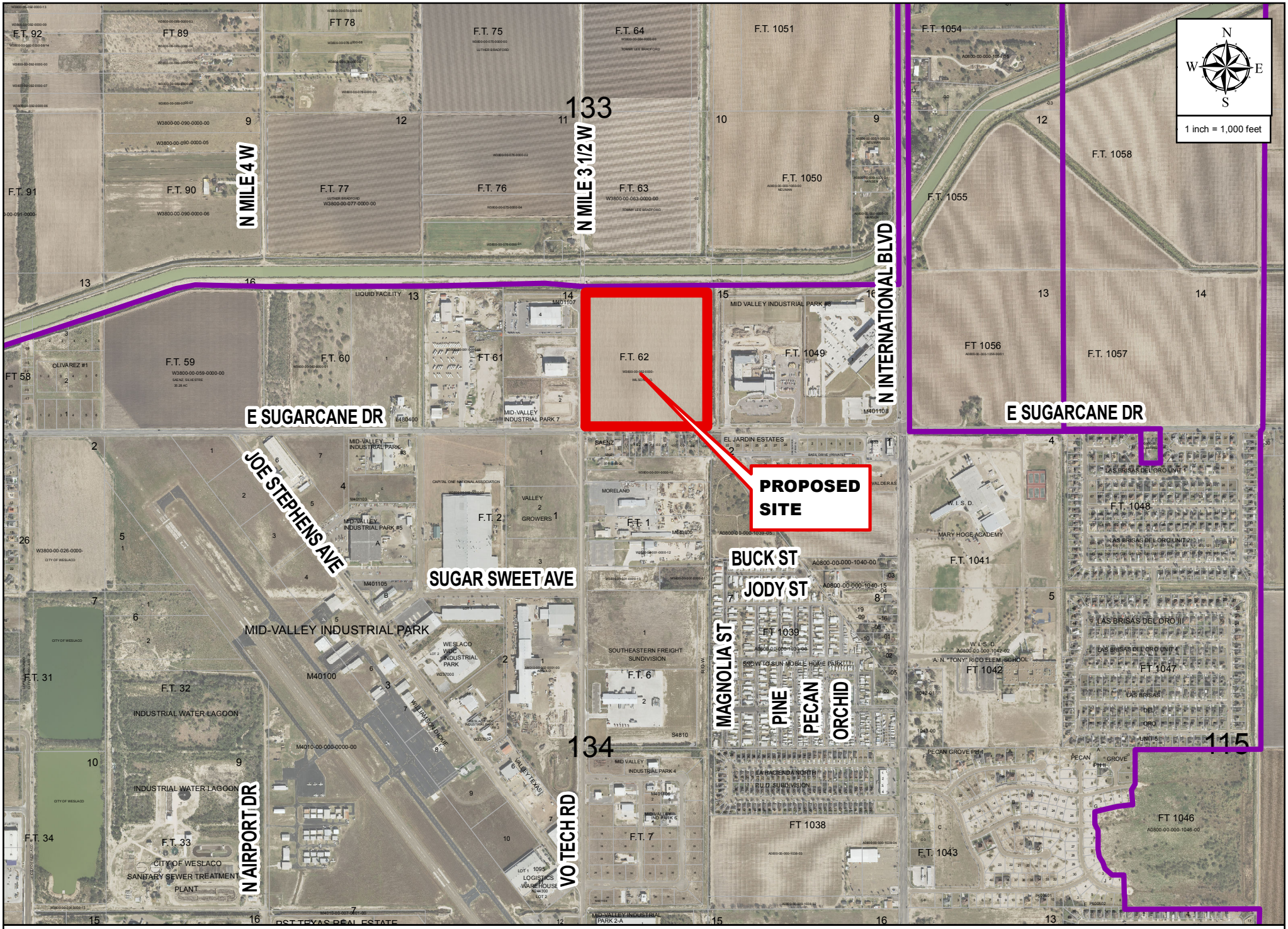
Planning and Zoning Commission recommended denial (5-2 vote) on October 12, 2016.

Aida Vega	Created/Initiated
Mardoqueo Hinojosa	Approved
Mike Perez	Final Approval

City Manager Comments:
Recommend approval.

Staff Recommendation:
Staff recommends approval since it serves as a buffer between existing adjacent school and commercial/industrial development.

Attachments, if any: Rezone Aerial, Photo 1, Photo 2, Photo 3, Existing Zoning Map, Airport Zones, Ordinance 2016-38
Responsibilities upon Approval: Staff will advise applicant.

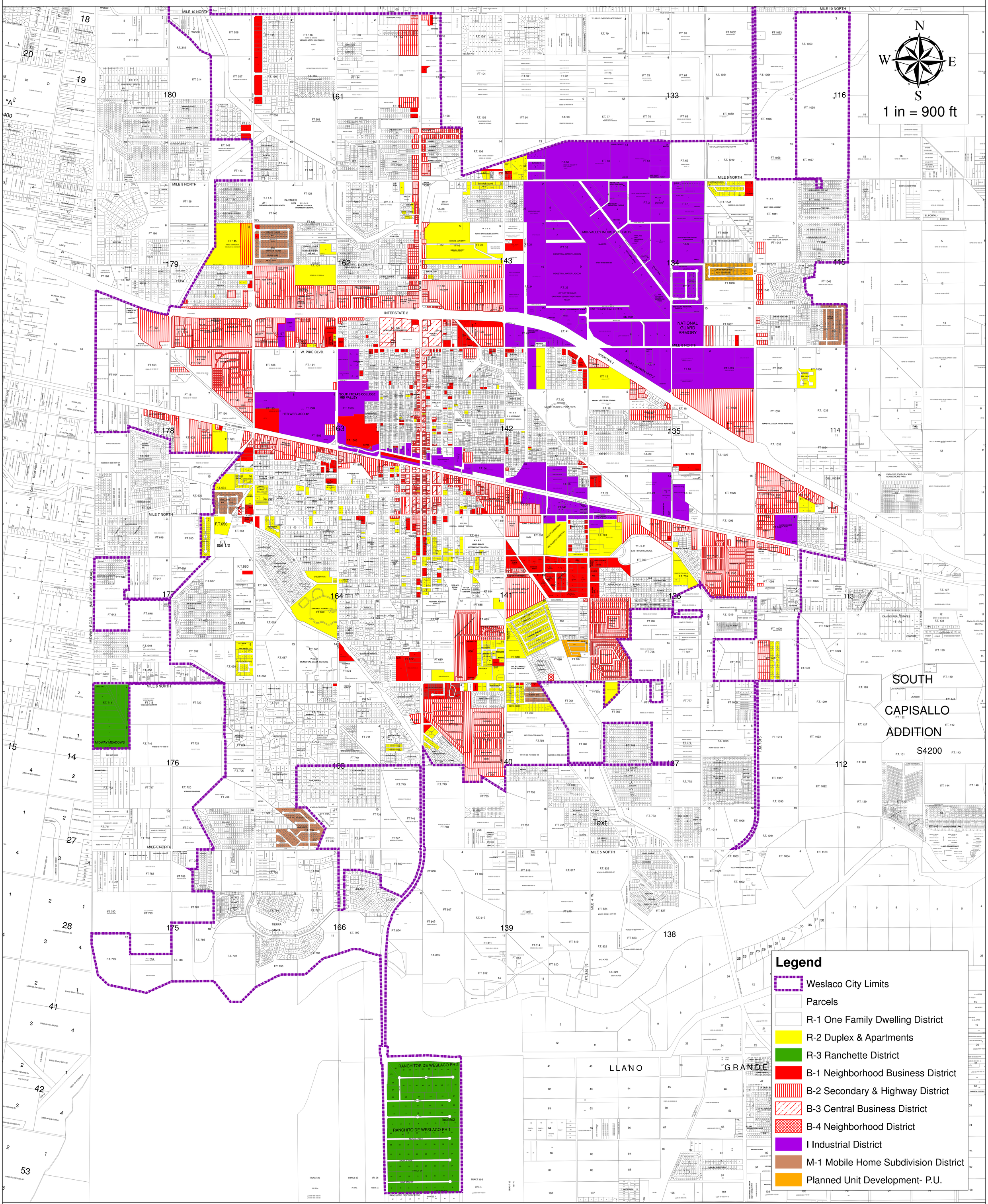


2615 E. SUGARCANE DR.
REZONE: R-1 TO R-2

PLANNING &
CODE ENFORCEMENT

CITY OF WESLACO

PLANNING &
CODE ENFORCEMENT



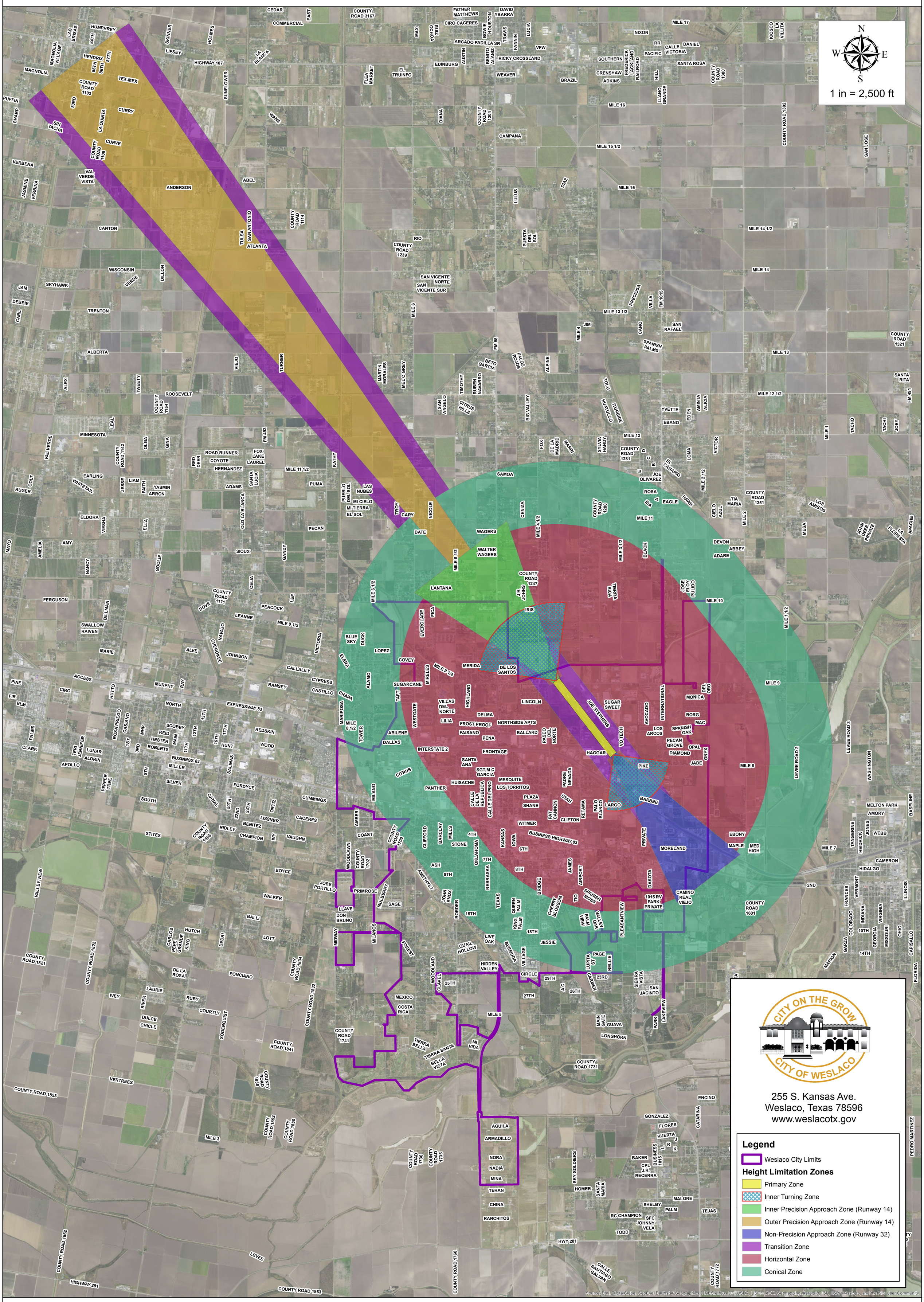
EXISTING ZONING MAP

UPDATED: APRIL 15, 2016

PLANNING AND CODE ENFORCEMENT

CITY OF WESLACO

PLANNING AND CODE ENFORCEMENT



MID VALLEY AIRPORT HEIGHT LIMITATIONS ZONES

FIGURE 1

ORDINANCE NO. 2016-38

AN ORDINANCE AMENDING ZONING ORDINANCE NO. 320 AND AMENDING THE ZONING MAP OF THE CITY OF WESLACO TO CHANGE THE ZONING 2615 E. SUGARCANE DR., ALSO BEING THE 29.41 ACRES OUT OF FARM TRACT 62, WEST TRACT SUBDIVISION, WESLACO, HIDALGO COUNTY, TEXAS, FROM R-1 ONE FAMILY DWELLING DISTRICT TO R-2 DUPLEX AND APARTMENTS DISTRICT.

BE IT ORDAINED BY THE CITY COMMISSION OF THE CITY OF WESLACO, TEXAS:

SECTION I: R-1 Single Family Dwelling District to R-2 Duplex and Apartments District being 29.41 acres out of Farm Tract 62, West Tract Subdivision, also being 2615 E. Sugarcane Dr., Weslaco, Hidalgo County, Texas.

SECTION II: That this ordinance shall become effective upon its passage.

PASSED AND APPROVED on first reading at a regular meeting of the City Commission this 18th day of October, 2016.

PASSED AND APPROVED on second reading at a regular meeting of the City Commission this 1st day of November, 2016.

CITY OF WESLACO

_____
David Suarez, **MAYOR**

ATTEST:

_____
Elizabeth M. Walker, **CITY SECRETARY**

APPROVED AS TO FORM:

_____
Juan E. Gonzalez**, CITY ATTORNEY**

Standardized Agenda Request Form

Date of Meeting: November 1, 2016	**Agenda Item No.** (to be assigned by CSO)**:** 2016-490

From:
Mardoqueo Hinojosa

Subject:
Ordinance 2016-39 rezoning 209 W. Sugarcane Dr., also being the 1.20 acre tract of land being the W132'-E528'-N396' out of Farm Tract 117, West Tract Subdivision, Weslaco, Hidalgo County, Texas, from R-1 One Family Dwelling District to R-2 Duplex and Apartments District. (First reading of Ordinance 2016-39 held October 18, 2016; Staffed by Planning and Code Enforcement Department.)

Background:
The applicant is requesting to rezone property from R-1 One Family Dwelling District to R-2 Duplex and Apartments District. Twenty (20) property owners within 200 feet of the applicant's property were notified by letter on September 30, 2016.

Funding Source (budget code, if applicable)**:**

Amount:	Term of Impact:	Identified in Current Budget:

Additional Action Prompted:
Mayor's Signature
Public Hearing
Ordinance - First Reading
Ordinance - Final Reading

If item previously considered, provide date and action by Commission:

If item requires Publication Notice, provide date and periodical of publication; indicate if comments received from letters mailed to property owners:
Notice of the application and the public hearing for the Planning and Zoning Commission and the City Commission appeared in The Monitor on September 26, 2016.

Advisory Review, if any (name of board/committee, date of action, recommendation)**:**
Planning and Zoning Commission recommended approval (unanimously) on October 12, 2016.

Aida Vega	Created/Initiated
Mardoqueo Hinojosa	Approved
Mike Perez	Final Approval

City Manager Comments:

Staff Recommendation:
Staff recommends approval.

Attachments, if any:
Rezone Aerial, Photo 1, Photo 2, Photo 3, Attachments, Ordinance 2016-39

Responsibilities upon Approval:
Staff recommends approval.

209 W. SUGARCANE DR.
REZONE: R-1 TO R-2

APPLICATION FOR REZONING

The Planning & Zoning Commission meets every 1st Wednesday of each month at 5:30 pm. Deadline to submit request is 30 days prior to the meeting.

The City Commission meets every 1st and 3rd Tuesday of each month at 5:30 pm

FILE NO. 2016-10

RECEIVED
AUG 30 2016
Planning & Code Enforcement Dept.

PROPOSED PROJECT

Legal Description of Property to be rezoned:

Lot _____ Block _____

Subdivision Name WEST TRACT SUBDIVISION. 209 West Sugarcane Drive

Street Address _____

Existing Zoning RESIDENTIAL Existing Land Use EMPTY / VACANT

Proposed Zoning MULTI FAMILY Proposed Land Use 3BR. APTS.

_____ $300.00 non-refundable filing fee.
✓ Detailed dimensioned site plan/map must be submitted with this request.
✓ Survey and metes and bounds if the legal description is a portion of a lot.
✓ City and school tax receipts attached.
✓ I have received a copy of "The Intent of Zoning Application Instructions".

APPLICANT

Name FERNANDO GARCIA Phone 956-463-4444

Address 310. N. TEXAS BLVD Fax: _____

City WESLACO State TX Zip Code 78596 E-Mail: MIDVALLEYTV@aol.com.

OWNER

Name FERNANDO GARCIA Phone 956-463-4444

Address 310 N. TEXAS BLVD Fax: _____

City WESLACO State TX Zip Code 78596 E-Mail: MIDVALLEYTV@aol.com.

I certify that I am the actual owner of the property described above and this application is being submitted with my consent (include corporate name if applicable); or I am authorized by the actual owner to submit this application and have attached written evidence of such authorization.

Signature _____ Date 8/30/2016
Owner

Signature _____ Date _____
Applicant

Signature _____ Date _____
Authorized Agent

255 S. KANSAS AVE ■ WESLACO, TEXAS 78596-6285 ■ 956-447-3401 ■ (Fax) 956-973-3128 ■ WWW.WESLACOTX.GOV

Revised Form February 14, 2014

Please do not alter this application

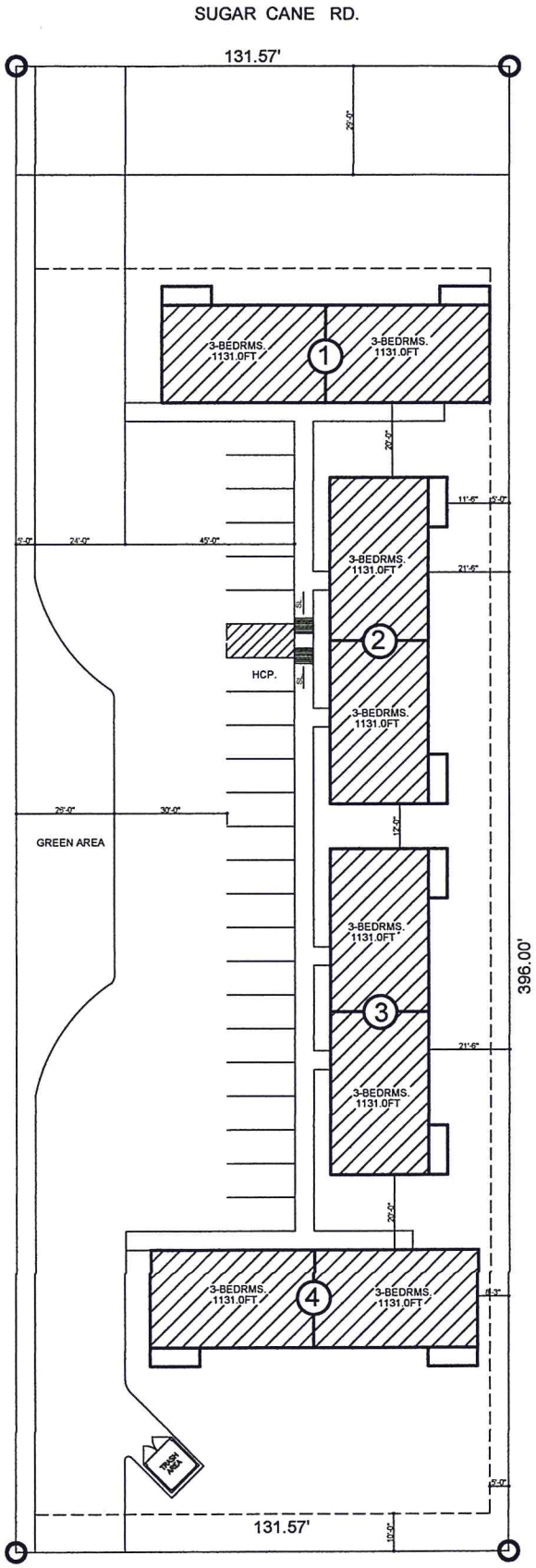
CITY OF WESLACO
956-968-3181

REC#: 02168841 8/30/2016 3:29 PM
OPER: DFuga TERM: 006
REF#: 8312

TRAN: 204.0000 REZONING APPL FEE
FERNANDO GARCIA
1.20 ACRE OUT OF FT 117
REZONING APPLICATIO 300.00CR

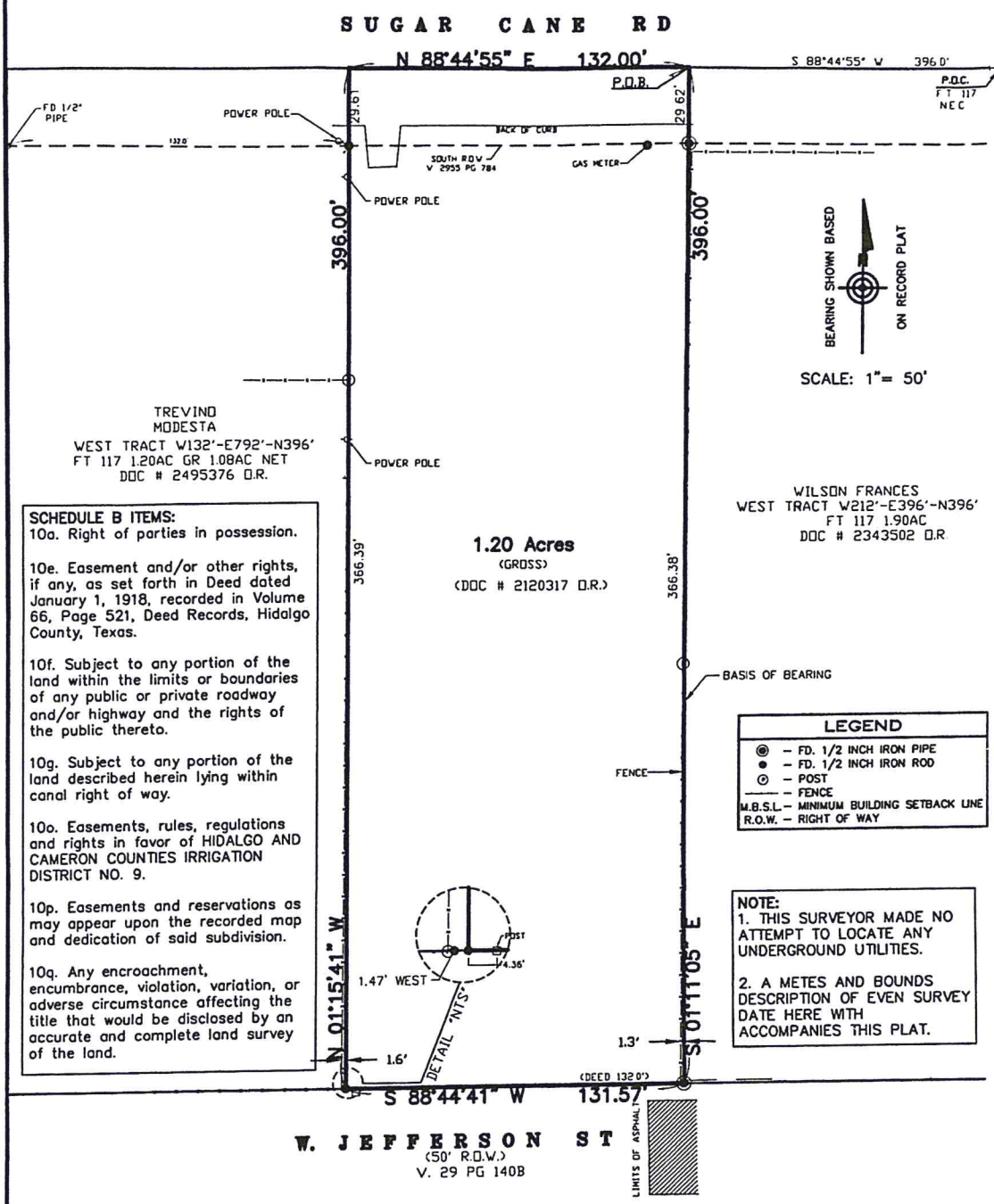
TENDERED: 300.00 CHECK
APPLIED: 300.00-

CHANGE: 0.00



SITE PLAN LAYOUT

8 - 3-BEDRMS. APTS. UNIT
(24) - 9 x18 PARKING SPACES



SCHEDULE B ITEMS:

10a. Right of parties in possession.

10e. Easement and/or other rights, if any, as set forth in Deed dated January 1, 1918, recorded in Volume 66, Page 521, Deed Records, Hidalgo County, Texas.

10f. Subject to any portion of the land within the limits or boundaries of any public or private roadway and/or highway and the rights of the public thereto.

10g. Subject to any portion of the land described herein lying within canal right of way.

10o. Easements, rules, regulations and rights in favor of HIDALGO AND CAMERON COUNTIES IRRIGATION DISTRICT NO. 9.

10p. Easements and reservations as may appear upon the recorded map and dedication of said subdivision.

10q. Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the title that would be disclosed by an accurate and complete land survey of the land.

LEGEND

- FD. 1/2 INCH IRON PIPE
- FD. 1/2 INCH IRON ROD
- POST
- FENCE
- M.B.S.L. – MINIMUM BUILDING SETBACK LINE
- R.O.W. – RIGHT OF WAY

NOTE:

1. THIS SURVEYOR MADE NO ATTEMPT TO LOCATE ANY UNDERGROUND UTILITIES.

2. A METES AND BOUNDS DESCRIPTION OF EVEN SURVEY DATE HERE WITH ACCOMPANIES THIS PLAT.

PLAT SHOWING

A 1.20 ACRE TRACT OF LAND CALLED THE WEST 132' OF THE EAST 528' OF THE NORTH 396' OF FARM TRACT 117, WEST TRACT SUBDIVISION, HIDALGO COUNTY, TEXAS AS PER MAP RECORDED IN VOLUME 2 PAGE 34 MAP RECORDS OF HIDALGO COUNTY, TEXAS.

GF #: 906780

SURVEYED: 7-18-2016

REQUESTED BY: FERNANDO GARCIA

FLOOD ZONE DESIGNATION: ZONE "C"
COMMUNITY-PANEL NUMBER: 480349 0005 B
MAP REVISED: MARCH 04, 1980

I, JOSE MARIO GONZALEZ, CERTIFY THAT THE ABOVE PLAT IS AN ACTUAL SURVEY MADE ON THE GROUND UNDER MY SUPERVISION AND THAT THERE ARE NO VISIBLE EASEMENTS OR ENCROACHMENTS EXCEPT AS SHOWN AND THAT ALL CORNERS HAVE BEEN LOCATED AS INDICATED.

7-19-16

REGISTERED PROFESSIONAL LAND SURVEYOR NO. 5571

JOSE MARIO GONZALEZ 5571 PROFESSIONAL LAND SURVEYOR

JOB NUMBER

RIO 16 212

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RIO DELTA SURVEYING
24593 FM 88, MONTE ALTO, TX 78538
(TEL) 956-380-5154 (FAX) 956-380-5156
EMAIL: MARIO@RIODELTASURVEYING.COM
T.B.P.L.S. FIRM # 10013900

CITY OF WESLACO LEGAL NOTICE THE WESLACO PLANNING AND

CITY OF WESLACO LEGAL NOTICE The Weslaco Planning and Zoning Commission will hold a public hearing on Wednesday, October 12, 2016, at 5:30 p.m. and the City Commission will also hold a public hearing on Tuesday, October 18, 2016 at 5:30 p.m. at the City Hall Legislative Chambers located at 255 S. Kansas Ave. to consider the following requests: Si desea informaciÃ³n en espaÃ±ol, llame al departamento de PlaneaciÃ³n de la Ciudad de Weslaco, (956) 447-3403. Nilda PeÃ±a is requesting a Conditional Use Permit to operate a daycare at 2301 E. 12th St., also being Lot 1, Blk 3, La Paloma de las Sombras Subdivision, Weslaco, Hidalgo County, Texas. South Texas Collaborative for Housing Development is requesting to rezone 2615 E. Sugarcane Dr., also being the 29.41 acres out of Farm Tract 62, West Tract Subdivision, Weslaco, Hidalgo County, Texas, from R-1 One Family Dwelling District to R-2 Duplex and Apartments District. Fernando Garcia is requesting to rezone 209 W. Sugarcane Dr., also being the 1.20 acre tract of land being the W132'-E528'-N396' out of Farm Tract 117, West Tract Subdivision, Weslaco, Hidalgo County, Texas, from R-1 One Family Dwelling District to R-2 Duplex and Apartments District. Hidalia OcaÃ±a dba ProDental Lab is requesting to rezone 410 N. Kansas Ave., also being Lots 6 and 7, Blk 5, Gonzalez Addition Subdivision, Weslaco, Hidalgo County, Texas, from R-1 One Family Dwelling District to B-1 Neighborhood Business District. The public is invited to attend and express support for or opposition to these applications. You may also file written support or opposition on or before October 12, 2016, for the Planning and Zoning Commission and on or before October 18, 2016 for City Commission. For additional information, contact the Planning Department at (956) 447-3403. /S/ MARDOQUEO HINOJOSA, P.E., CFM Planning Director/City Engineer

Click here to view the public notice as it appeared in print.

Appeared in: ***The Monitor*** on Monday, 09/26/2016

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City of Weslaco

"The City on the Grow"

David Suarez, Mayor
Olga M. Noriega, Mayor Pro-Tem, District 3
Leo Muñoz, Commissioner, District 1
Greg Kerr, Commissioner, District 2
Gerardo "Jerry" Tafolla, Commissioner, District 4
Letty Lopez, Commissioner, District 5
Fidel L. Pena, III, Commissioner, District 6

Mike R. Perez, City Manager

PLANNING DEPARTMENT

September 30, 2016

Legal Notice

Dear Occupant:

The Weslaco Planning and Zoning Commission will hold a public hearing on Wednesday, October 12, 2016, at 5:30 p.m. and the City Commission will also hold a public hearing on Tuesday, October 18, 2016 at the City Hall Legislative Chambers located at 255 S. Kansas Ave. to consider the following request:

REZONE REQUEST:

Fernando Garcia is requesting to rezone 209 W. Sugarcane Dr., also being the 1.20 acre tract of land being the W132'-E528'-N396' out of Farm Tract 117, West Tract Subdivision, Weslaco, Hidalgo County, Texas, from R-1 One Family Dwelling District to R-2 Duplex and Apartments District.

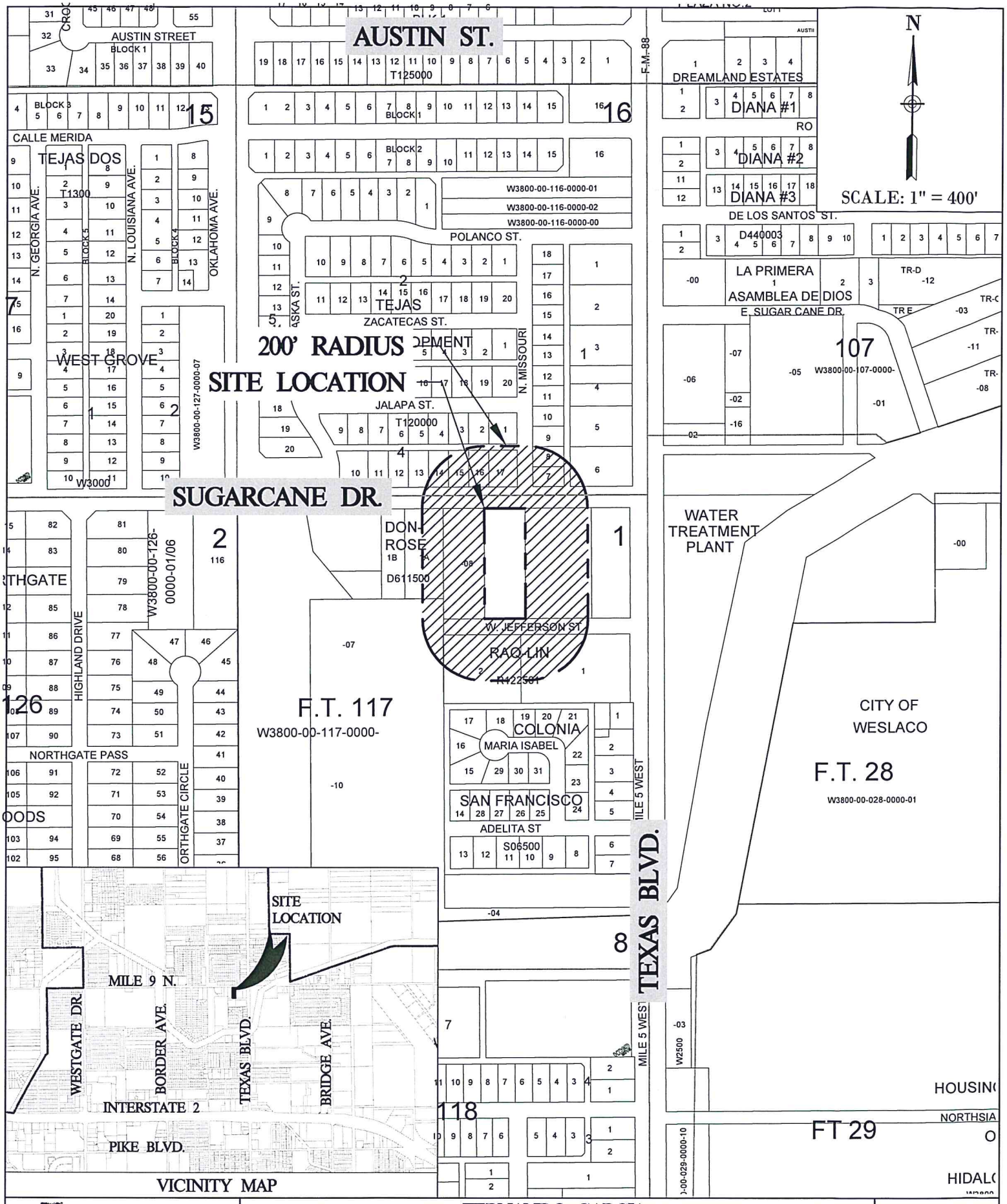
The public is hereby invited to attend and express their support or opposition to the request. You may also file a written notice supporting or protesting this action. For more information please call the Planning Department at (956) 447-3403.

Si desea información en español, por favor llame al departamento de Planeación de la ciudad de Weslaco, (956) 447-3403.

Sincerely,

Mardoqueo Hinojosa, P.E., CFM
Planning Director/City Engineer

MH/mh



VICINITY MAP

City of Weslaco

FERNANDO GARCIA
209 W. SUGARCANE DR.
1.2AC OF LAND BEING THE W132'-E528'-N396'
OF FARM TRACT 117 WEST TRACT SUBDIVISION
EX. ZONE: R-1, PROP. ZONE: R-2

CITY ON THE GROW
CITY OF WESLACO

City of Weslaco Code Enforcement Dept.

SEP 26, 2016

BOUTIN SANDRA A ETAL 2174 REDWOODS CRST SAN ANTONIO TX 78232	D6115-00-000-001A-00 DON-ROSE LOT 1A 301 W SUGAR CANE DR	L: B:	36750 19535
RODRIGUEZ ESMERALDA & 223 W SUGAR CANE DR WESLACO TX 78599	D6115-00-000-001B-00 DON-ROSE LOT 1B 223 W SUGAR CANE DR	L: B:	42000 86636
PALACIOS OSCAR & RAQUENEL V ANTONIO ESPARZA 1899 N CAGE BLVD STE A PHARR TX 78577	R1225-01-000-0001-00 RAQ=LIN PH 1 LOT 1 2411 N TEXAS BLVD	L: B:	388500 267393
PALACIOS OSCAR & RAQUENEL V ANTONIO ESPARZA 1899 N CAGE BLVD STE A PHARR TX 78577	R1225-01-000-0002-00 RAQ=LIN PH 1 LOT 2 215 W JEFFERSON ST	L: B:	115804 0
GENERAL TELEPHONE COMPANY PO BOX 152206 IRVING TX 75015	T1200-00-001-0006-05 TEJAS DEVELOPMENT S70'-W50' LOT 6 BLK 1 2505 N TEXAS BLVD	L: B:	17500 14492
MARROQUIN ABEL III 812 PARK PLACE AVENUE WESLACO TX 78599	T1200-00-001-0007-00 TEJAS DEVELOPMENT LOT 7 BLK 1 2504 N MISSOURI AVE	L: B:	17280 0
TREVINO EDUARDO 3203 LLAVE ST WESLACO TX 78596	T1200-00-001-0008-00 TEJAS DEVELOPMENT LOT 8 BLK 1 2510 N MISSOURI AVE	L: B:	17550 0
OZUNA, EFRAIN ET UX 2514 N MISSOURI AVE WESLACO TX 78596-4432	T1200-00-001-0009-00 TEJAS DEVELOPMENT LOT 9 BLK 1 2514 N MISSOURI AVE	L: B:	17550 29372
SIERRA, ALICIA 211 JALAPA ST WESLACO TX 78596-4423	T1200-00-004-0001-00 TEJAS DEVELOPMENT LOT 1 BLK 4 211 JALAPA ST	L: B:	24611 25999
PACHECO, JUAN & SANDRA 215 JALAPA ST WESLACO TX 78596-4423	T1200-00-004-0002-00 TEJAS DEVELOPMENT LOT 2 BLK 4 215 JALAPA ST	L: B:	17550 58962
ESPINOZA CECILIA 312 W SUGARCANE DR WESLACO TX 78599	T1200-00-004-0013-00 TEJAS DEVELOPMENT LOT 13 BLK 4 306 W SUGAR CANE DR	L: B:	20709 0
FALARS-V INC 326 W MILE 11 N WESLACO TX 78599	T1200-00-004-0014-00 TEJAS DEVELOPMENT LOT 14 BLK 4 302 W SUGAR CANE DR	L: B:	20709 133258

City of Weslaco Code Enforcement Dept.

SEP 26, 2016

GARZA NICANOR 4501 N MILE 4 W WESLACO TX 78599	T1200-00-004-0015-00 TEJAS DEVELOPMENT LOT 15 BLK 4 222 W SUGAR CANE DR	L: B:	20709 71689
PEREZ LYDIA 216 W SUGAR CANE DR WESLACO TX 78599	T1200-00-004-0016-00 TEJAS DEVELOPMENT LOT 16 BLK 4 216 W SUGAR CANE DR	L: B:	20709 73386
GARCIA SERGIO & YOLANDA 210 W SUGAR CANE DR WESLACO TX 78599	T1200-00-004-0017-00 TEJAS DEVELOPMENT LOT 17 BLK 4 210 W SUGAR CANE DR	L: B:	28989 71851
GARCO LTD 3910 W FREDDY GONZLEZ DR EDINBURG TX 78539-9308	W3800-00-117-0000-00 WEST TRACT N394'- E184' FT 117 101 W SUGARCANE DR	L: B:	93218 7614
GARCIA FERNANDO 310 N TEXAS BLVD WESLACO TX 78596	W3800-00-117-0000-03 WEST TRACT W132'-E528'-N396' FT 117 1.20 AC NET 0	L: B:	54864 0
WILSON, J O 121 W SUGAR CANE DR WESLACO TX 78596-4426	W3800-00-117-0000-07 WEST TRACT FT 117 W8.55AC GR 7.3 9AC NET 0	L: B:	0 0
REYES RAMIRO ADRIAN 219 W SUGAR CANE DR WESLACO TX 78599	W3800-00-117-0000-08 WEST TRACT W132'-E792'-N396' FT 117 1.20AC GR 1.08AC NET 219 W SUGAR CANE DR	L: B:	49378 46803
WILSON FRANCES H 121 W SUGAR CANE DR WESLACO TX 78599	W3800-00-117-0000-12 WEST TRACT W212'-E396'-N396' FT 117 1.90AC 121 W SUGAR CANE DR	L: B:	38950 33498

ORDINANCE NO. 2016-39

AN ORDINANCE AMENDING ZONING ORDINANCE NO. 320 AND AMENDING THE ZONING MAP OF THE CITY OF WESLACO TO CHANGE THE ZONING OF 209 W. SUGARCANE DR., ALSO BEING THE 1.20 ACRE TRACT OF LAND BEING THE W132'-E528'-N396' OUT OF FARM TRACT 117, WEST TRACT SUBDIVISION, WESLACO, HIDALGO COUNTY, TEXAS, FROM R-1 ONE FAMILY DWELLING DISTRICT TO R-2 DUPLEX AND APARTMENTS DISTRICT.

BE IT ORDAINED BY THE CITY COMMISSION OF THE CITY OF WESLACO, TEXAS:

SECTION I: R-1 Single Family Dwelling District to R-2 Duplex and Apartments District being 1.20 acre tract of land being the W132'-E528'-N396' out of Farm Tract 117, West Tract Subdivision, also being 209 W. Sugarcane Dr., Weslaco, Hidalgo County, Texas.

SECTION II: That this ordinance shall become effective upon its passage.

PASSED AND APPROVED on first reading at a regular meeting of the City Commission this 18th day of October, 2016.

PASSED AND APPROVED on second reading at a regular meeting of the City Commission this 1st day of November, 2016.

CITY OF WESLACO

_____
David Suarez, **MAYOR**

ATTEST:

_____
Elizabeth M. Walker, **CITY SECRETARY**

APPROVED AS TO FORM:

_____
Juan E. Gonzalez**, CITY ATTORNEY**

Standardized Agenda Request Form

Date of Meeting: November 1, 2016	**Agenda Item No.** (to be assigned by CSO)**:** 2016-518

From:

Subject:
Approval on First Reading of Ordinance 2016-42 authorizing and allowing, under the act governing the Texas Municipal Retirement System, "Update Service Credits" in said system on an annual basis for service performed by qualifying members of such system who at the effective date of the allowance are members of the City of Weslaco; providing for increased prior and current service annuities for retirees and beneficiaries of deceased retirees of the City; and establishing an effective date of January 1, 2017 for such actions. First Reading of Ordinance 2016-42. (Staffed by Finance Department.)

Background:
Discussion and consideration to approve the City of Weslaco, Texas Municipal Retirement System (TMRS) ordinance effective January1, 2017.

Funding Source (budget code, if applicable)**:**

Amount: $0.00	Term of Impact: 1 year	Identified in Current Budget: FY 2017

Additional Action Prompted:
Ordinance - First Reading

If item previously considered, provide date and action by Commission:

If item requires Publication Notice, provide date and periodical of publication; indicate if comments received from letters mailed to property owners:

Advisory Review, if any (name of board/committee, date of action, recommendation)**:**

Aida Vega	Created/Initiated
Mary Barrera	Approved
Mike Perez	Final Approval

City Manager Comments:

Staff Recommendation:
Approval

Attachments, if any:
TMRS letter, Ordinance 2016-42

Responsibilities upon Approval:

TMRS
TEXAS MUNICIPAL RETIREMENT SYSTEM

October 5, 2016

Via E-Mail

Mr. Mike Perez
City Manager
City of Weslaco
255 South Kansas Ave.
Weslaco, TX 78596-6158

Dear Mike:

We are pleased to enclose an ordinance for your city to adopt:

50% Updated Service Credit, including Transfers
&
30% CPI Increase to Annuitants
Ad Hoc (one time only basis)

With the adoption of these additional benefits, your city's contribution rate beginning January 1, 2017 will be **7.98%** and the phase in rate will be **7.05%**

We would appreciate receiving a copy of this ordinance as soon as possible after its adoption.

If you have any questions or need additional assistance, please contact me at 1-800-924-8677.

Sincerely,

Eric W. Davis
Deputy Executive Director

TMRS
P.O. Box 149153
Austin, Texas 78714-9153

www.TMRS.com

512.476.7577
Toll-Free 800.924.8677
Fax 512.476.5576

Plan Change Study

GRID 2017
For Informational Purposes Only
Effective Date - January 1, 2017
Report Date - October 5, 2016

01354 Weslaco

		Proposed Plans
Plan Provisions	**Current**	**1**
Deposit Rate	7.00%	7.00%
Matching Ratio	2 to 1	2 to 1
Updated Service Credit	0%	50% ✓
Transfer USC **	No	Yes ✓
Annuity Increase	0%	30% ✓
20 Year/Any Age Ret.	Yes	Yes
Vesting	5 years	5 years
Contribution Rates	**2017**	**2017**
Normal Cost Rate	5.35%	5.35%
Prior Service Rate	2.36%	2.45%
Retirement Rate	**7.71%**	**7.80%**
Supplemental Death Rate	0.18% (A & R)	0.18% (A & R)
Total Rate	**7.89%**	**7.98%** ✓
Unfunded Actuarial Liability	$2,917,524	$2,992,587
Amortization Period	25 years	25 years
Funded Ratio	92.1%	91.9%
Phase-In Total Rate	6.96%	7.05%

**This is the addition to the Initial Prior Service Rate for USC for transfers. There were 18 eligible transfer employees on the valuation date.

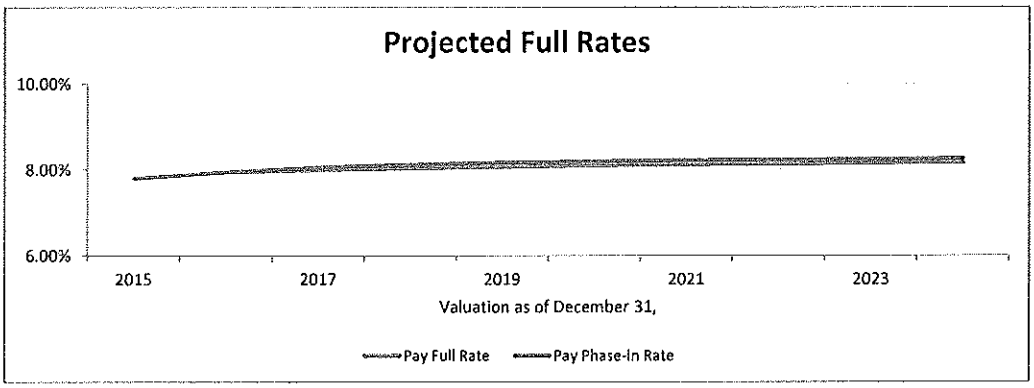
Projection of Valuation Results - Pension Only

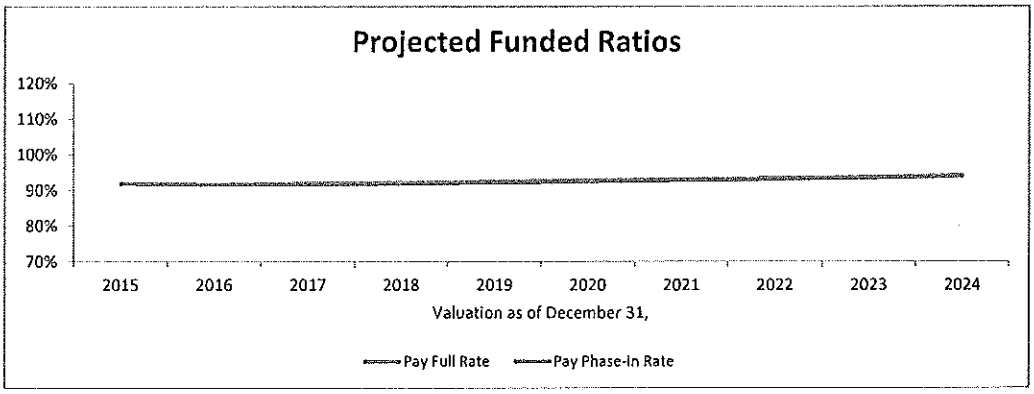
1354, Weslaco

Summary of Proposed Benefit Provisions			
Employee Contribution Rate	7.00%	USC	50% Ad Hoc with Transfer
Employer Match Rate	2 - 1	COLA	30% Ad Hoc
Vesting	5 years	Retirement Eligibility	Age 60 with 5 years of service or 20 years of service

Projection Results

Calendar Year	2016	2017	2018	2019	2020	2021	2022	2023
Full Rate	6.05%	7.80%	7.95%	8.00%	8.04%	8.07%	8.10%	8.12%
Estimated Contribution	548,743	721,619	750,207	770,023	789,351	808,142	827,369	846,000
Funded Ratio	91.9%	91.7%	91.9%	92.2%	92.4%	92.7%	93.0%	93.4%
If Phase In Rate Contributed								
Full Rate	6.05%	7.80%	7.95%	8.06%	8.13%	8.17%	8.20%	8.22%
Phase-In Rate	6.05%	6.87%	7.52%	8.06%	8.13%	8.17%	8.20%	8.22%
Estimated Contribution	548,743	635,580	709,629	775,798	798,187	818,156	837,584	856,419
Funded Ratio	91.9%	91.7%	91.7%	91.8%	92.1%	92.4%	92.8%	93.1%





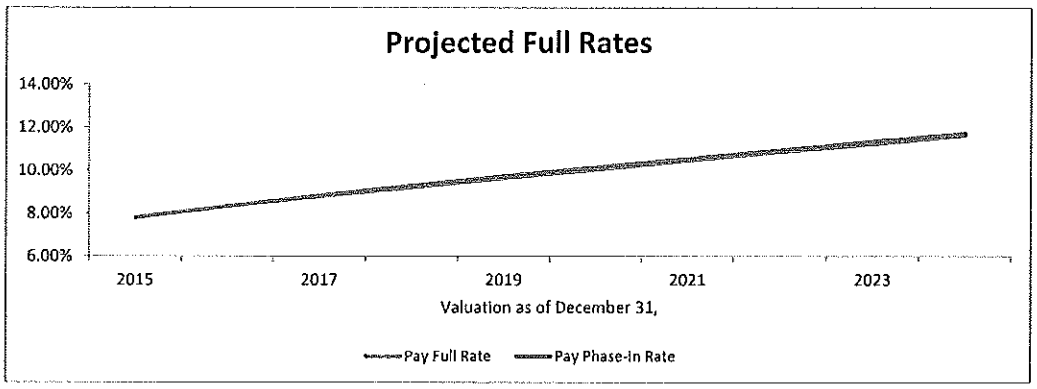
Projection of Valuation Results - Pension Only

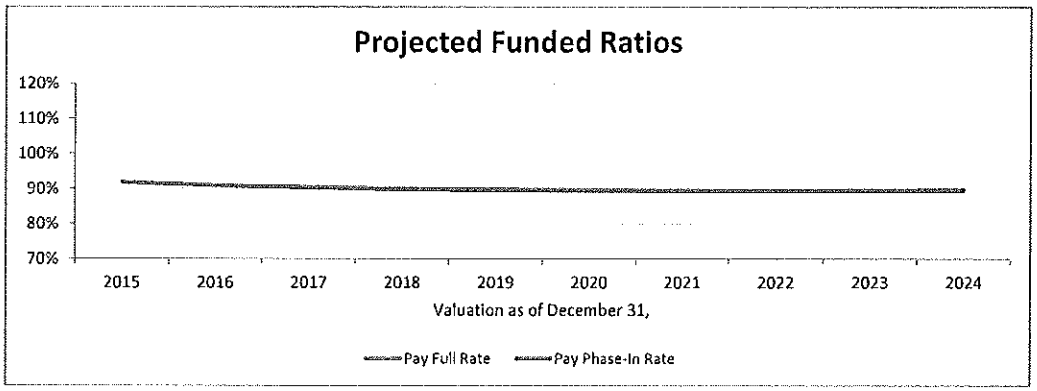
1354, Weslaco

Summary of Proposed Benefit Provisions			
Employee Contribution Rate	7.00%	USC	Yearly 50% Ad Hocs with Transfer
Employer Match Rate	2 - 1	COLA	Yearly 30% Ad Hocs
Vesting	5 years	Retirement Eligibility	Age 60 with 5 years of service or 20 years of service

Projection Results

Calendar Year	2016	2017	2018	2019	2020	2021	2022	2023
Full Rate	6.05%	7.80%	8.32%	8.78%	9.20%	9.63%	10.04%	10.46%
Estimated Contribution	548,743	721,619	785,452	844,863	903,445	964,086	1,025,826	1,089,708
Funded Ratio	91.9%	91.0%	90.5%	90.2%	89.9%	89.8%	89.7%	89.6%
If Phase In Rate Contributed								
Full Rate	6.05%	7.80%	8.32%	8.84%	9.30%	9.73%	10.14%	10.55%
Phase-In Rate	6.05%	6.87%	7.89%	8.84%	9.30%	9.73%	10.14%	10.55%
Estimated Contribution	548,743	635,580	744,875	850,638	913,262	974,100	1,036,040	1,099,085
Funded Ratio	91.9%	91.0%	90.3%	89.9%	89.6%	89.5%	89.4%	89.4%





TMRS-USC T CPI

ORDINANCE 2016-42

TEXAS MUNICIPAL RETIREMENT SYSTEM

AN ORDINANCE AUTHORIZING AND ALLOWING, UNDER THE ACT GOVERNING THE TEXAS MUNICIPAL RETIREMENT SYSTEM, "UPDATED SERVICE CREDITS" IN SAID SYSTEM FOR SERVICE PERFORMED BY QUALIFYING MEMBERS OF SUCH SYSTEM WHO PRESENTLY ARE MEMBERS OF THE CITY OF WESLACO; PROVIDING FOR INCREASED PRIOR AND CURRENT SERVICE ANNUITIES FOR RETIREES AND BENEFICIARIES OF DECEASED RETIREES OF THE CITY; AND ESTABLISHING AN EFFECTIVE DATE FOR SUCH ACTIONS.

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF WESLACO, TEXAS:

Section 1. Authorization of Updated Service Credits.

(a) On the terms and conditions set out in Sections 853.401 through 853.403 of Subtitle G of Title 8, Government Code, as amended (hereinafter referred to as the "TMRS ACT"), each member of the Texas Municipal Retirement System (hereinafter referred to as the "System") who has current service credit or prior service credit in the System in force and effect on the 1st day of January of the calendar year preceding such allowance, by reason of service in the employment of the City, and on such date has at least 36 months of credited service with the System, shall be and is hereby allowed "Updated Service Credit" (as that term is defined in subsection (d) of Section 853.402 of said title) in an amount that is **50%** of the "base Updated Service Credit" of the member (calculated as provided in subsection (c) of Section 853.402 of said title). The Updated Service Credit hereby allowed shall replace any Updated Service Credit, prior service credit, special prior service credit, or antecedent service credit previously authorized for part of the same service.

(b) On the terms and conditions set out in Section 853.601 of said title, any member of the System who is eligible for Updated Service Credits on the basis of service with this City, and who has unforfeited credit for prior service and/or current service with another participating municipality or municipalities by reason of previous service, and was a contributing member on 1st day of January of the calendar year preceding such allowance, shall be credited with Updated Service Credits pursuant to, calculated in accordance with, and subject to adjustment as set forth in said 853.601.

(c) In accordance with the provisions of subsection (d) of Section 853.401 of said title, the deposits required to be made to the System by employees of the several participating departments on account of current service shall be calculated from and after the date aforesaid on the full amount of such person's earnings as an employee of the City.

Section 2. Increase in Retirement Annuities.

(a) On terms and conditions set out in Section 854.203 of Subtitle G of Title 8, Government Code, as amended, the City hereby elects to allow and to provide for payment of the increases below stated in monthly benefits payable by the System to retired employees and to beneficiaries of deceased employees of this City under current service annuities and prior service annuities arising from service by such employees to this City. An annuity increased under this Section replaces any annuity or increased annuity previously granted to the same person.

(b) The amount of annuity increase under this Section is computed as the sum of the prior and current service annuities on the effective date of retirement of the person on whose service the annuities are based, multiplied by **30%** of the percentage change in Consumer Price Index for All Urban Consumers, from December of the year immediately preceding the effective date of the person's retirement to the December that is 13 months before the effective date of this ordinance.

(c) An increase in an annuity that was reduced because of an option selection is reducible in the same proportion and in the same manner that the original annuity was reduced.

(d) If a computation hereunder does not result in an increase in the amount of an annuity, the amount of the annuity will not be changed hereby.

(e) The amount by which an increase under this Section exceeds all previously granted increases to an annuitant is an obligation of this City and of its account in the Benefit Accumulation Fund of the System.

Effective Date Subject to approval by the Board of Trustees of Texas Municipal Retirement System, the updated service credits and increases in retirement annuities granted hereby shall be and become effective on the **1st day of January, 2017.**

Passed and approved this the 1st day of November, 2016.

Passed and approved this the _____day of _____, 2016.

ATTEST: **APPROVED:**

_____

_____

City Secretary or Clerk Mayor

Standardized Agenda Request Form

Date of Meeting: November 1, 2016	**Agenda Item No.** (to be assigned by CSO)**:** 2016-534

From:
Arnold Becho

Subject:
Acceptance of donated funds from Mr. and Mrs. Santos Villanueva for exterior benches. (Staffed by Library Department.)

Background:

Local library advocates Mr. and Mrs. Santos Villanueva have graciously offered to sponsor purchase of two exterior benches for the library. In total Mr. and Mrs. Villanueva have donated $2,000 dollars which will go to purchase of two benches. There may be some delivery and install cost that will need to be covered by the library but those cost should be under $500. Mr. and Mrs. Villanueva are vehement and frequent supporters of the library. Among other donations, they have donated 4 to 5 bikes as prizes for kids within the Summer Reading Program for the last 4 years. They frequently volunteer and are active library advocates within the community. The library is very grateful to have such strong supporters.

Funding Source (budget code, if applicable)**:**

Amount:	Term of Impact:	Identified in Current Budget:

Additional Action Prompted:

If item previously considered, provide date and action by Commission:
NA

If item requires Publication Notice, provide date and periodical of publication; indicate if comments received from letters mailed to property owners:
NA

Advisory Review, if any (name of board/committee, date of action, recommendation)**:**
None at this time.

Arnold Becho	Created/Initiated
Arnold Becho	Approved
Mike Perez	Final Approval

City Manager Comments:

Staff Recommendation:
Staff recommends approval.

Attachments, if any:
Memo - accept donation

Responsibilities upon Approval:

The library will work with Finance to facilitate budget amendment and purchase of the benches. The library will then work with Public Facilities to install the benches.

City of Weslaco

"The City on the Grow"

David Suarez, Mayor
Olga M. Noriega, Mayor Pro-Tem, District 3
Leo Muñoz, Commissioner, District 1
Gregory Kerr, Commissioner, District 2
Gerardo "Jerry" Tafolla, Commissioner, District 4
Letty Lopez, Commissioner, District 5
Fidel L. Pena, Commissioner, District 6

Mike Perez, City Manager

October 21, 2016

To: Mike Perez, City Manager; David Suarez, Mayor; Olga M. Noriega, Mayor Pro-Tem; Leo Muñoz, Commissioner; Gregory Kerr, Commissioner; Gerardo Tafolla, Commissioner; Letty Lopez, Commissioner; Fidel L. Pena, Commissioner
CC: Martin J. Mata, Maria Barrera
Fr: Arnoldo Becho, Library Director
Re: Request to approve acceptance of donated funds for exterior benches by Mr. and Mrs. Santos Villanueva

Local library advocates Mr. and Mrs. Santos Villanueva have graciously offered to sponsor purchase of two exterior benches for the library. The library will recognize their contribution by placing a permanent plaque on the benches and by recognizing the donation within the next Library Board Meeting. It should be noted that Mrs. Paula Villanueva is a Library Board Member.

In total Mr. and Mrs. Villanueva have donated $2,000 dollars which will go to purchase of two benches. A budget amendment may be needed to move the funds into the appropriate account for expenditure. There may be some delivery and install cost that will need to be covered by the library but the library has ample budget for these cost within the Other Supplies and Contract Service line items. Delivery and install cost should be under $500.

Mr. and Mrs. Villanueva are vehement and frequent supporters of the library. Among other donations, they have donated 4 to 5 bikes as prizes for kids within the Summer Reading Program for the last 4 years. They frequently volunteer and are active library advocates within the community. The library is very grateful to have such strong supporters. They are a credit to the community and making a difference in the lives of local children. Please feel free to contact me with any questions, I will be happy to provide additional information. Thank you for the time.

Arnoldo Becho
Library Director, City of Weslaco
Phone: 956.973.3144
Email: abecho@weslacopl.us

Standardized Agenda Request Form

Date of Meeting: November 1, 2016	**Agenda Item No.** (to be assigned by CSO)**:** 2016-519

From:

Subject:
Discussion and consideration to approve Resolution 2016-62 appointing one member to the Ambulance Advisory Board and authorize the Mayor to execute any related documents. Possible action. (Staffed by Fire Department).

Background:
Annette Valadez term will be expiring. Ms Valadez has expressed interest to stay on the Ambulance Advisory Board.

There are no new applicants as of the date of posting.

Funding Source (budget code, if applicable)**:**

Amount:	Term of Impact:	Identified in Current Budget:

Additional Action Prompted:
Mayor's Signature
Resolution

If item previously considered, provide date and action by Commission:
N/A

If item requires Publication Notice, provide date and periodical of publication; indicate if comments received from letters mailed to property owners:
N/A

Advisory Review, if any (name of board/committee, date of action, recommendation)**:**
N/A

Aida Vega	Created/Initiated
Antonio Lopez	Approved
Mike Perez	Final Approval

City Manager Comments:

Staff Recommendation:

Attachments, if any:
16 Bd. Appt-standard docs, Ambulance Advisory Board - roster, Resolution 2016-62

Responsibilities upon Approval:

City of Weslaco Boards and Committees

Prepared by Office of the City Secretary; Updated August 2016

	Member Qualifications										Defined Duties							
	character	citizenship	residency	age	public officer	taxpayer/property owner	qualified voter	management experience	subject interest	no litigation	# members	# quorum	term length (st = staggered)	term limits	meeting schedule	deisgnated final authority	governing statutes	appointing authority
Adjustments & Appeals to Zoning Oridnance						X					5		2yr				Sec 150-19	CC
Adjustments & Appeals to Building Codes											7	4	4yr		reg interval	X	Art IX Sec 280-283	CC
Ambulance Advisory Board											7	4	2yr		min. 3 mths		Art I, Sec 14-1	CC
Animal Shelter Advisory Committee		X									5*				3/year		Ord 2012-02	CC
Civil Service Commission	X	X	>3yr	>25	>3yr						3	2	st3yr	3*	72hr notice		Ch 143	appt by CM, confirm by CC
Economic Development Corporation	X	X	X					X		X	7	4		2*	monthly		Bylaws, Art of Inc	7 at large; confirm by CC
Hotel Occupancy Tax Advisory Committee											7	3	3yr		2/year		Ord 2015-09	CC
Housing Authority Board					no						5		2yr	2			LGC Sec 392.033	appt by Mayor
Library Board											5		2yr				Art II Sec 78.21-28	CC
Parks & Recreation Advisory Board											7		3yr				Art IV Sec 98	CC
Planning & Zoning Commission		X	X			X	X				7		3yr				Art III Sec 2.98-103	CC
Public Facilities & Transportation Improvements Naming Committee		X	X								7		st3yr				Ord 2011-16	CC
Weslaco Health Facilities Development Corporation											3+		6 yrs				Art 1528j, Vernons TX Civil Statue	CC
Weslaco Mid-Valley Airport Committee											7		st3yr				Art II Sec 6-33	CC
Weslaco 100		X	X								16		3yrs				R2013-52	CC

Application for Service

City of Weslaco Boards and Committees

Name of Applicant:	**Telephone Number:**	
E-Mail Address:	**Alternate Phone Number (work/cell):**	
Home Address:		[ ] Inside City Limits [ ] Outside City Limits
City:	**State:**	**Zip Code:**
How many years have you lived at this residence?		**Do you own this house?** [ ] Yes or [ ] No

Preference for consideration, naming committees on which you desire to serve:

1.)

2.)

3.)

List of Civic Involvement and Business Experience:

Have you been bonded or eligible to obtain one? [ ] Yes or [ ] No	**Are you currently suing or being sued by the City of Weslaco or any of its entities?** [ ] Yes or [ ] No
Are you related to any member of the Commission? [ ] Yes or [ ] No	**If so, who and how?**
Have you previously served on a City board? [ ] Yes or [ ] No	**If so, which and when?**
Have you ever been elected to public office? [ ] Yes or [ ] No	**If so, which and when?**
Do you consent to release this info to the public? [ ] Yes or [ ] No	**Are you age 25 or older?** [ ] Yes or [ ] No
The statements I have made on this Application for Service are truthful and I am not disqualified to serve due to nepotism, City of Weslaco Charter or Ordinances or State of Texas laws.	**Timestamp of Receipt:**
Applicant's Signature:	

Optional Demographic Information: Self Identification
Gender:
Age:
Race:
Religion:
Citizenship:

RESOLUTION NO. 2014-62

STATE OF TEXAS	§	**RESOLUTION ESTABLISHING A SCREENING, APPOINTMENT, CONFIRMATION AND ATTENDANCE POLICY FOR SERVICE ON CITY OF WESLACO BOARDS, COMMISSIONS, AUTHORITIES AND COMMITTEES**
COUNTY OF HIDALGO	§	
CITY OF WESLACO	§	

WHEREAS, The City of Weslaco has Standing Committees, Boards, Authorities and Commissions (hereafter called "Boards") that assist and recommend to the Weslaco City Commission programs and projects that benefit the citizens of Weslaco; and

WHEREAS, The Weslaco City Commission (hereafter called "Commission") also periodically creates *Ad Hoc* Boards to assist the City of Weslaco in addressing unexpected issues, projects or concerns; and

WHEREAS, The Commission desires the best qualified individuals on these Boards to represent a diverse cross section of the citizens of Weslaco.

NOW THEREFORE BE IT RESOLVED THAT The Weslaco City Commission hereby adopts the following Policy for the screening, appointment and confirmation of individuals to serve on the various Boards.

A. Screening

Interested individuals shall submit to the City Secretary a Board application which will contain: 1) contact and demographic data; and 2) educational, professional, civic and other relevant credentials. This application will be kept on file until the end of the fiscal year in which it was submitted, ending on September 30.

Individuals shall confirm receipt the City's diversity, affirmative action, nepotism, ethics policies; the Board's mission, duties and responsibilities as established by Ordinance or other order; and other relevant documents. Individuals must agree to abide by Weslaco City Charter and applicable Ordinances, and state and federal laws.

B. Appointment

The City Manager may recommend the best qualified individuals to the City Commission. The Commission will attempt to appoint the best qualified individuals that will fairly represent the demographic characteristics of Weslaco.

To ensure greater public participation, individuals shall not serve concurrently on more than one Board, unless the Commission makes an exemption.

The Commission shall make fair and deliberative appointments that comply with the Weslaco City Charter and applicable Ordinances, and state and federal laws.

C. Confirmation

Prior to appointment by the Commission, individuals should confirm that they remain interested in serving on a particular Board by either: 1) attending the Commission meeting which has the item on the Commission's Agenda; or 2) submitting a written statement of interest to the Mayor.

D. Attendance

Three absences, not limited to consecutive, from any board or committee as appointed is established as just cause for removal and replacement by the Commission.

E. Qualification

Individuals that have pending litigation against the City of Weslaco or any of its entities shall not be eligible for an appointment to City of Weslaco Committees, Boards, Authorities and Commissions.

PASSED AND APPROVED on this 2nd day of December, 2014.

CITY OF WESLACO

David Suarez, **MAYOR**

ATTEST:

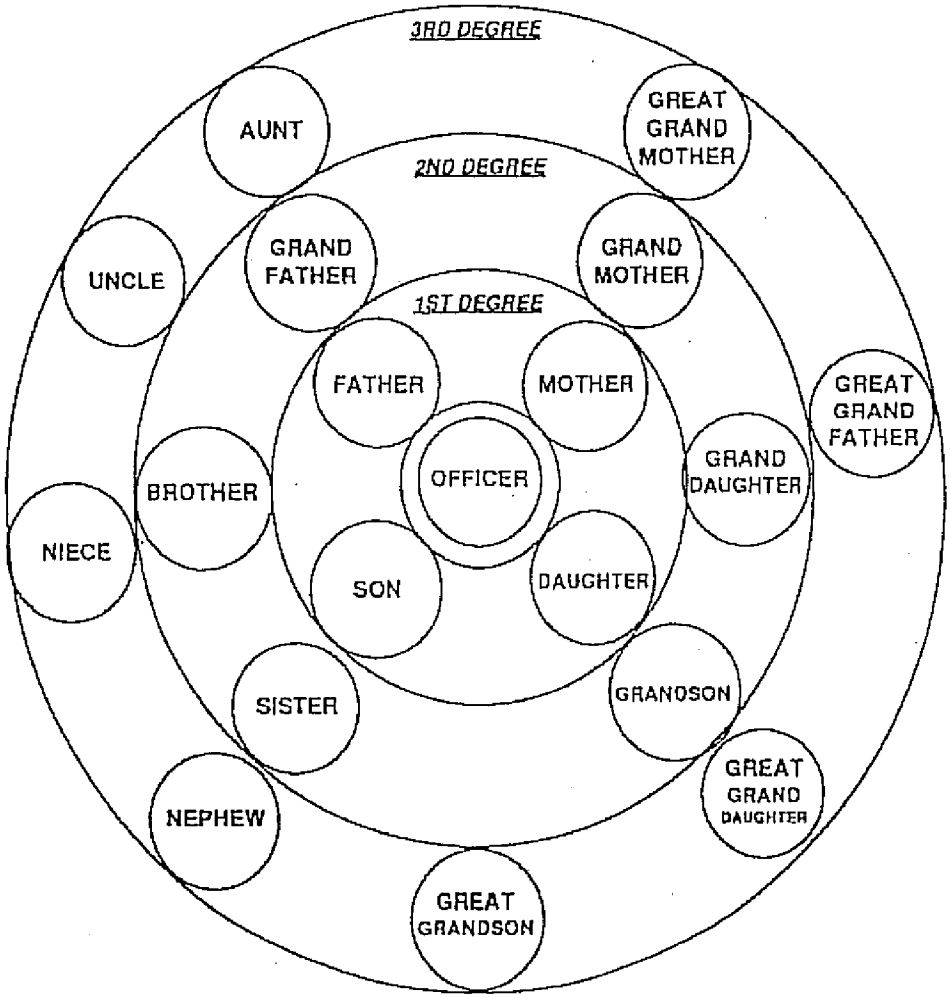
WCC 12/2/14

Rebekah de la Fuente, **INTERIM CITY SECRETARY**

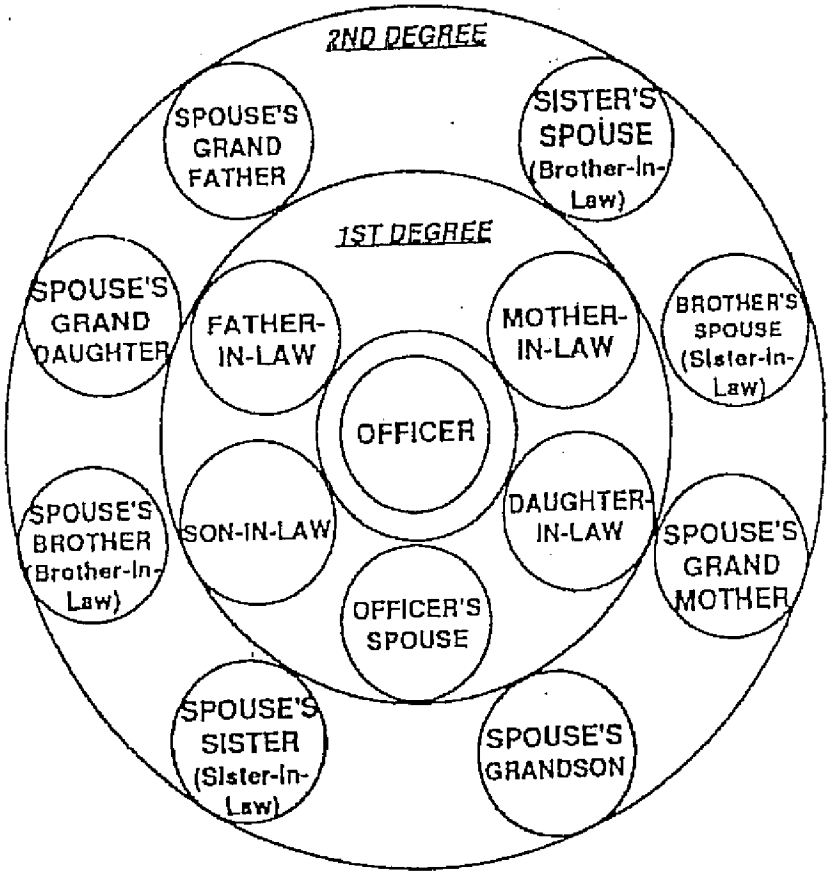
APPROVED AS TO FORM:

Frank Garza, **INTERIM CITY ATTORNEY**

TEXAS NEPOTISM 1992



Consanguinity Kinship Chart
(Blood)



Affinity Kinship Chart
(Marriage)

AMBLUANCE ADVISORY BOARD

TERM START	TERM EXPIRES	FIRST NAME	LAST NAME
3/15/2016	3/15/2018	Maria A.	Villa
2/16/2016	2/16/2018	Sergio	Lozano, DDS
2/7/2006	2/7/2018	Lt. Ted	Walensky
4/18/2015	4/17/2017	Patrick B.	Kennedy
5/6/2013	5/6/2017	Sandra	Esquivel
3/2/1999	3/20/2017	George	Guerra
12/2/2015	12/20/2016	*Annette	Valadez

*Serving unexpired term

RESOLUTION NO. 2016-62

A RESOLUTION OF THE CITY OF WESLACO APPOINTING ONE MEMBER TO THE AMBULANCE ADVISORY BOARD.

WHEREAS, the City of Weslaco has established the Ambulance Advisory Board pursuant to Section 14-1(A) of Ordinance No. 78-39; and

WHEREAS, the terms of the members of this board are for two years; and

WHEREAS, the Ambulance Advisory Board members shall serve without compensation; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF WESLACO, TEXAS THAT _____ is appointed to serve on the Ambulance Advisory Board and the term will begin on _____, 20___, and will expire on _____, 20___.

PASSED AND APPROVED on this 1st day of November, 2016.

CITY OF WESLACO

_____
David Suarez, **MAYOR**

ATTEST:

_____
Elizabeth M. Walker, **CITY SECRETARY**

APPROVED AS TO FORM:

_____
Juan E. Gonzalez, **CITY ATTORNEY**

Standardized Agenda Request Form

Date of Meeting: November 1, 2016	**Agenda Item No.** (to be assigned by CSO)**:** 2016-530

From:

Subject:
Discussion and consideration to approve Resolution 2016-63, 2016-64 and 2016-65 appointing members to the Economic Development Corporation of Weslaco Board of Directors and authorize the Mayor to execute any related documents. Possible action. (Staffed by Weslaco Economic Development Corporation.)

Background:
Rick Talbert - Expressed interest to stay on the Board.
Joe Olivarez - Expressed interest to stay on the Board.
Rodolfo Cisneros - Expressed interest to stay on the Board.

Funding Source (budget code, if applicable)**:**

Amount:	Term of Impact:	Identified in Current Budget:

Additional Action Prompted:
Mayor's Signature
Resolution

If item previously considered, provide date and action by Commission:

If item requires Publication Notice, provide date and periodical of publication; indicate if comments received from letters mailed to property owners:

Advisory Review, if any (name of board/committee, date of action, recommendation)**:**

Aida Vega	Created/Initiated
Elizabeth Walker	Approved
Mike Perez	Final Approval

City Manager Comments:

Staff Recommendation:
Reappointment of members

Attachments, if any:
16 Board Appt., Recommendation Letter, EDC member roster, Resolution 2016-63, Resolution 2016-64, Resolution 2016-65

Responsibilities upon Approval:

City of Weslaco Boards and Committees

Prepared by Office of the City Secretary; Updated August 2016

	Member Qualifications										Defined Duties							
	character	citizenship	residency	age	public officer	taxpayer/property owner	qualified voter	management experience	subject interest	no litigation	# members	# quorum	term length (st = staggered)	term limits	meeting schedule	deisgnated final authority	governing statutes	appointing authority
Adjustments & Appeals to Zoning Oridnance						X					5		2yr				Sec 150-19	CC
Adjustments & Appeals to Building Codes											7	4	4yr		reg interval	X	Art IX Sec 280-283	CC
Ambulance Advisory Board											7	4	2yr		min. 3 mths		Art I, Sec 14-1	CC
Animal Shelter Advisory Committee		X									5*				3/year		Ord 2012-02	CC
Civil Service Commission	X	X	>3yr	>25	>3yr						3	2	st3yr	3*	72hr notice		Ch 143	appt by CM, confirm by CC
Economic Development Corporation	X	X	X					X		X	7	4		2*	monthly		Bylaws, Art of Inc	7 at large; confirm by CC
Hotel Occupancy Tax Advisory Committee											7	3	3yr		2/year		Ord 2015-09	CC
Housing Authority Board					no						5		2yr	2			LGC Sec 392.033	appt by Mayor
Library Board											5		2yr				Art II Sec 78.21-28	CC
Parks & Recreation Advisory Board											7		3yr				Art IV Sec 98	CC
Planning & Zoning Commission		X	X			X	X				7		3yr				Art III Sec 2.98-103	CC
Public Facilities & Transportation Improvements Naming Committee		X	X								7		st3yr				Ord 2011-16	CC
Weslaco Health Facilities Development Corporation											3+		6 yrs				Art 1528j, Vernons TX Civil Statue	CC
Weslaco Mid-Valley Airport Committee											7		st3yr				Art II Sec 6-33	CC
Weslaco 100		X	X								16		3yrs				R2013-52	CC

Application for Service

City of Weslaco Boards and Committees

Name of Applicant:	**Telephone Number:**	
E-Mail Address:	**Alternate Phone Number (work/cell):**	
Home Address:		[ ] Inside City Limits [ ] Outside City Limits
City:	**State:**	**Zip Code:**
How many years have you lived at this residence?		**Do you own this house?** [ ] Yes or [ ] No

Preference for consideration, naming committees on which you desire to serve:

1.)

2.)

3.)

List of Civic Involvement and Business Experience:

Have you been bonded or eligible to obtain one? [ ] Yes or [ ] No	**Are you currently suing or being sued by the City of Weslaco or any of its entities?** [ ] Yes or [ ] No
Are you related to any member of the Commission? [ ] Yes or [ ] No	**If so, who and how?**
Have you previously served on a City board? [ ] Yes or [ ] No	**If so, which and when?**
Have you ever been elected to public office? [ ] Yes or [ ] No	**If so, which and when?**
Do you consent to release this info to the public? [ ] Yes or [ ] No	**Are you age 25 or older?** [ ] Yes or [ ] No
The statements I have made on this Application for Service are truthful and I am not disqualified to serve due to nepotism, City of Weslaco Charter or Ordinances or State of Texas laws.	**Timestamp of Receipt:**
Applicant's Signature:	

Optional Demographic Information: Self Identification
Gender:
Age:
Race:
Religion:
Citizenship:

RESOLUTION NO. 2014-62

STATE OF TEXAS	§	**RESOLUTION ESTABLISHING A SCREENING, APPOINTMENT, CONFIRMATION AND ATTENDANCE POLICY FOR SERVICE ON CITY OF WESLACO BOARDS, COMMISSIONS, AUTHORITIES AND COMMITTEES**
COUNTY OF HIDALGO	§	
CITY OF WESLACO	§	

WHEREAS, The City of Weslaco has Standing Committees, Boards, Authorities and Commissions (hereafter called "Boards") that assist and recommend to the Weslaco City Commission programs and projects that benefit the citizens of Weslaco; and

WHEREAS, The Weslaco City Commission (hereafter called "Commission") also periodically creates *Ad Hoc* Boards to assist the City of Weslaco in addressing unexpected issues, projects or concerns; and

WHEREAS, The Commission desires the best qualified individuals on these Boards to represent a diverse cross section of the citizens of Weslaco.

NOW THEREFORE BE IT RESOLVED THAT The Weslaco City Commission hereby adopts the following Policy for the screening, appointment and confirmation of individuals to serve on the various Boards.

A. Screening

Interested individuals shall submit to the City Secretary a Board application which will contain: 1) contact and demographic data; and 2) educational, professional, civic and other relevant credentials. This application will be kept on file until the end of the fiscal year in which it was submitted, ending on September 30.

Individuals shall confirm receipt the City's diversity, affirmative action, nepotism, ethics policies; the Board's mission, duties and responsibilities as established by Ordinance or other order; and other relevant documents. Individuals must agree to abide by Weslaco City Charter and applicable Ordinances, and state and federal laws.

B. Appointment

The City Manager may recommend the best qualified individuals to the City Commission. The Commission will attempt to appoint the best qualified individuals that will fairly represent the demographic characteristics of Weslaco.

To ensure greater public participation, individuals shall not serve concurrently on more than one Board, unless the Commission makes an exemption.

The Commission shall make fair and deliberative appointments that comply with the Weslaco City Charter and applicable Ordinances, and state and federal laws.

C. Confirmation

Prior to appointment by the Commission, individuals should confirm that they remain interested in serving on a particular Board by either: 1) attending the Commission meeting which has the item on the Commission's Agenda; or 2) submitting a written statement of interest to the Mayor.

D. Attendance

Three absences, not limited to consecutive, from any board or committee as appointed is established as just cause for removal and replacement by the Commission.

E. Qualification

Individuals that have pending litigation against the City of Weslaco or any of its entities shall not be eligible for an appointment to City of Weslaco Committees, Boards, Authorities and Commissions.

PASSED AND APPROVED on this 2nd day of December, 2014.

CITY OF WESLACO

David Suarez, **MAYOR**

ATTEST:

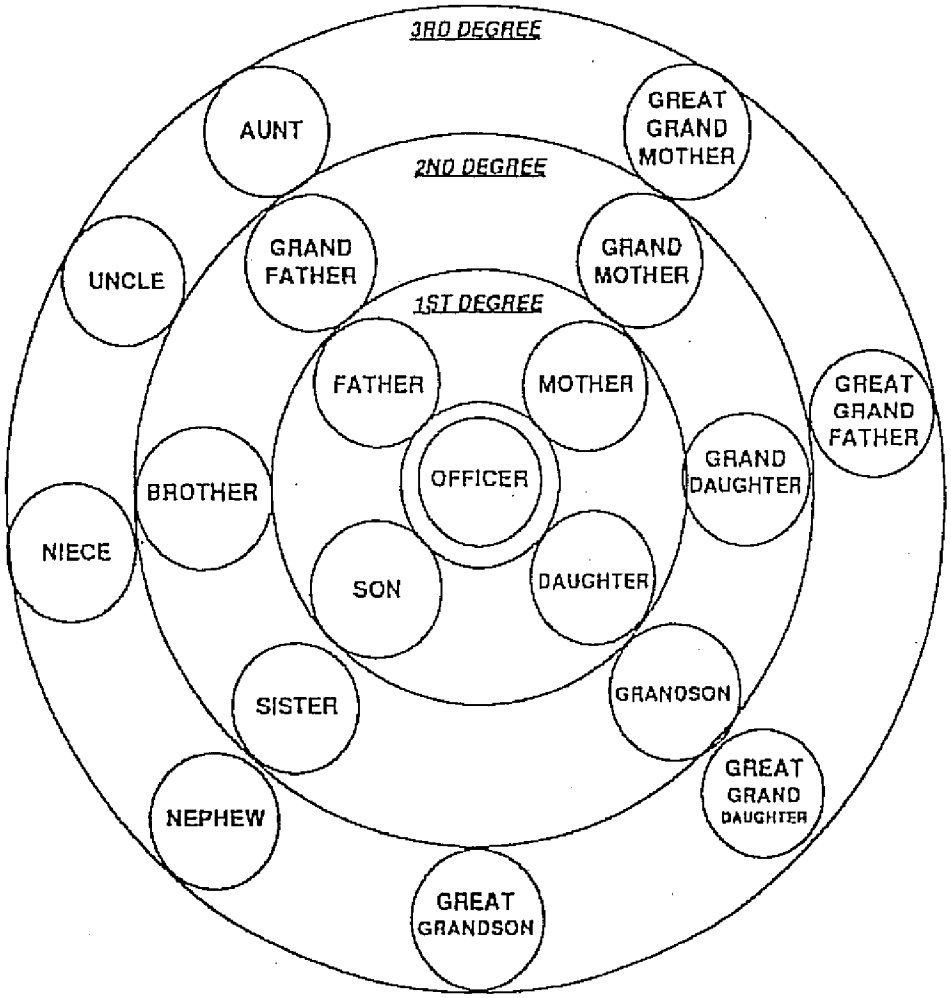
WCC 12/2/14

Rebekah de la Fuente, **INTERIM CITY SECRETARY**

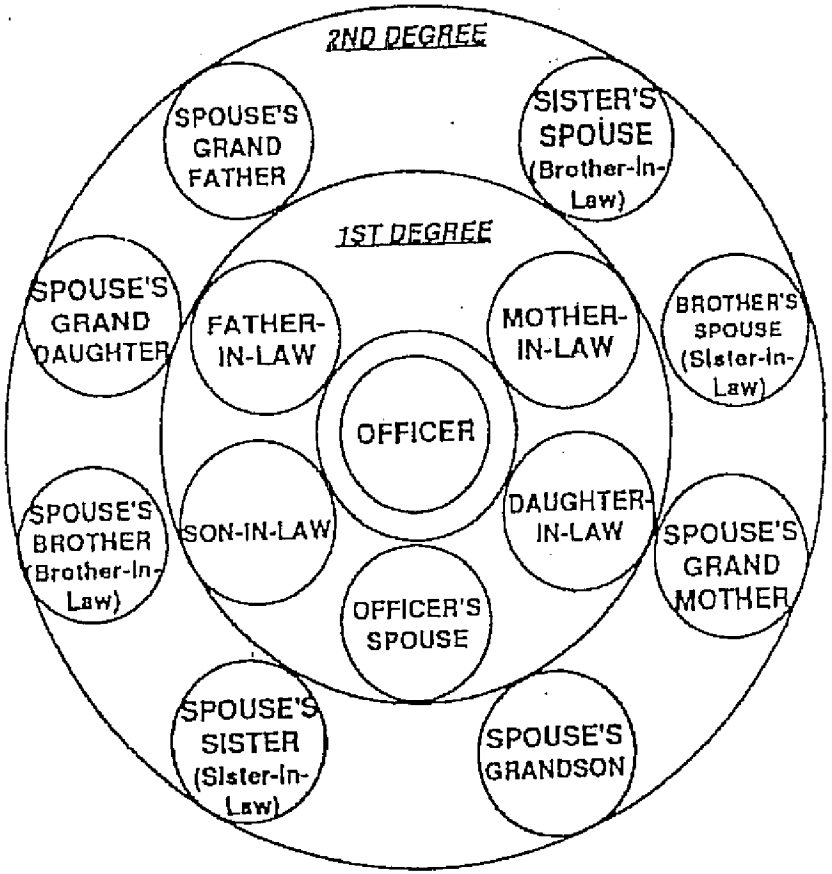
APPROVED AS TO FORM:

Frank Garza, **INTERIM CITY ATTORNEY**

TEXAS NEPOTISM 1992



Consanguinity Kinship Chart
(Blood)



Affinity Kinship Chart
(Marriage)

THE ECONOMIC DEVELOPMENT CORPORATION
OF WESLACO

October 27, 2016

Honorable David Suarez
Mayor
City of Weslaco
255 S. Kansas Ave.
Weslaco, Texas 78596

Dear Mayor Suarez and City Commissioners,

I have been in Weslaco for the last six months and am learning about the community from each of you. I see the commitment to your callings when watching each of you perform your civic duties at city commission meetings and at community events throughout Weslaco and it allows me to appreciate the broad experiences each of you have for the City of Weslaco. For that reason, I am proud to serve you and the Economic Development Corporation of Weslaco.

On November 1, 2016, you will consider the appointment or reappointment of board members currently serving the Weslaco EDC. Each of the EDC board members have served quite extraordinarily and have taught me immeasurable lessons about the dynamics of this community, both through their business savvy and deep roots immersed in the culture of Weslaco. Each one brings a different perspective to the board and I am grateful for their dedication to Weslaco and the EDC and it is for that reason that I invite and encourage the recommending of the three board members currently up for your consideration.

Members include, respectively, Richard Talbert, President, Joe Olivarez, Vice President and Trustee Rodolfo "Rudy" Cisneros. Each of these three gentlemen are part of the seven member board that has developed an exciting momentum that deserves to continue.

Thank you for your time and commitment to the City of Weslaco.

Sincerely,

Maria McDermott
Executive Director
Weslaco EDC

ECONOMIC DEVELOPMENT CORPORTATION OF WESLACO BOARD OF DIRECTORS

LAST NAME	FIRST NAME	APPOINTED	EXPIRATION	TERM
Talbert	Rick	12/2/2014	12/2/2016	2 year
Olivarez	Joe	12/2/2014	12/2/2016	2 year
Masso	Martin	12/2/2014	12/2/2018	1 year
Cisneros	Rodolfo	12/2/2014	12/2/2016	2 year
Charlton	G. Stephen	12/2/2014	12/2/2017	3 year
Fuentes Aguilar	Diana	12/2/2014	12/2/2017	3 year
Cabaza	Cynthia	12/2/2014	12/2/2017	3 year

RESOLUTION NO. 2016-63

A RESOLUTION OF THE CITY OF WESLACO APPOINTING ONE MEMBER TO THE BOARD OF DIRECTORS OF THE ECONOMIC DEVELOPMENT CORPORATION OF WESLACO

WHEREAS, the City of Weslaco has established the Economic Development Corporation pursuant to the Development Corporation Act of 1979 as amended; and

WHEREAS, the term of one member on this board of this corporation is for three years; and

WHEREAS, The Economic Development Corporation of Weslaco's board members shall serve staggered terms without compensation and limited to two (2) consecutive three (3) year terms; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF WESLACO, TEXAS THAT _____ appointed to a term as a member of the Board of Directors of the Economic Development Corporation that will expire on the ____day of _____, 20___.

PASSED AND APPROVED on this 1st day of November, 2016.

CITY OF WESLACO

_____
David Suarez, **MAYOR**

ATTEST:

_____
Elizabeth M. Walker, **CITY SECRETARY**

APPROVED AS TO FORM:

_____
Juan E. Gonzalez, **CITY ATTORNEY**

RESOLUTION NO. 2016-64

A RESOLUTION OF THE CITY OF WESLACO APPOINTING ONE MEMBER TO THE BOARD OF DIRECTORS OF THE ECONOMIC DEVELOPMENT CORPORATION OF WESLACO

WHEREAS, the City of Weslaco has established the Economic Development Corporation pursuant to the Development Corporation Act of 1979 as amended; and

WHEREAS, the term of one member on this board of this corporation is for three years; and

WHEREAS, The Economic Development Corporation of Weslaco's board members shall serve staggered terms without compensation and limited to two (2) consecutive three (3) year terms; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF WESLACO, TEXAS THAT _____ appointed to a term as a member of the Board of Directors of the Economic Development Corporation that will expire on the ____day of _____, 20___.

PASSED AND APPROVED on this 1st day of November, 2016.

CITY OF WESLACO

_____
David Suarez, **MAYOR**

ATTEST:

_____
Elizabeth M. Walker, **CITY SECRETARY**

APPROVED AS TO FORM:

_____
Juan E. Gonzalez, **CITY ATTORNEY**

RESOLUTION NO. 2016-65

A RESOLUTION OF THE CITY OF WESLACO APPOINTING ONE MEMBER TO THE BOARD OF DIRECTORS OF THE ECONOMIC DEVELOPMENT CORPORATION OF WESLACO

WHEREAS, the City of Weslaco has established the Economic Development Corporation pursuant to the Development Corporation Act of 1979 as amended; and

WHEREAS, the term of one member on this board of this corporation is for three years; and

WHEREAS, The Economic Development Corporation of Weslaco's board members shall serve staggered terms without compensation and limited to two (2) consecutive three (3) year terms; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF WESLACO, TEXAS THAT _____ appointed to a term as a member of the Board of Directors of the Economic Development Corporation that will expire on the ____day of _____, 20___.

PASSED AND APPROVED on this 1st day of November, 2016.

CITY OF WESLACO

_____
David Suarez, **MAYOR**

ATTEST:

_____
Elizabeth M. Walker, **CITY SECRETARY**

APPROVED AS TO FORM:

_____
Juan E. Gonzalez, **CITY ATTORNEY**

Standardized Agenda Request Form

Date of Meeting: November 1, 2016	**Agenda Item No.** (to be assigned by CSO)**:** 2016-600

From:

Subject:
Discussion and consideration to accept the resignation of Alan Gonzalez and approve Resolution 2016-66 appointing one member to an unexpired term on the Weslaco Mid Valley Airport Advisory Committee. Possible action. (Staffed by Airport.)

Background:
Mr. Alan Gonzalez has resigned, vacating a term on the Weslaco Mid-Valley Airport Advisory Board set to expire June 2017. One appointment for a member is needed to fill an unexpired term.

There is one application on file from Mr. Raul Cabaza III.

Funding Source (budget code, if applicable)**:**

Amount:	Term of Impact:	Identified in Current Budget:

Additional Action Prompted:
Mayor's Signature
Resolution

If item previously considered, provide date and action by Commission:

If item requires Publication Notice, provide date and periodical of publication; indicate if comments received from letters mailed to property owners:

Advisory Review, if any (name of board/committee, date of action, recommendation)**:**

Elizabeth Walker	Created/Initiated
Andrew Muñoz	Approved
Mike Perez	Final Approval

City Manager Comments:

Staff Recommendation:

Attachments, if any:
16 Board Appt., Resignation - Alan Gonzalez, Airport Member roster, Resolution 2016-66

Responsibilities upon Approval:

City of Weslaco Boards and Committees

Prepared by Office of the City Secretary; Updated August 2016

	Member Qualifications										Defined Duties							
	character	citizenship	residency	age	public officer	taxpayer/property owner	qualified voter	management experience	subject interest	no litigation	# members	# quorum	term length (st = staggered)	term limits	meeting schedule	deisgnated final authority	governing statutes	appointing authority
Adjustments & Appeals to Zoning Oridnance						X					5		2yr				Sec 150-19	CC
Adjustments & Appeals to Building Codes											7	4	4yr		reg interval	X	Art IX Sec 280-283	CC
Ambulance Advisory Board											7	4	2yr		min. 3 mths		Art I, Sec 14-1	CC
Animal Shelter Advisory Committee		X									5*				3/year		Ord 2012-02	CC
Civil Service Commission	X	X	>3yr	>25	>3yr						3	2	st3yr	3*	72hr notice		Ch 143	appt by CM, confirm by CC
Economic Development Corporation	X	X	X					X		X	7	4		2*	monthly		Bylaws, Art of Inc	7 at large; confirm by CC
Hotel Occupancy Tax Advisory Committee											7	3	3yr		2/year		Ord 2015-09	CC
Housing Authority Board					no						5		2yr	2			LGC Sec 392.033	appt by Mayor
Library Board											5		2yr				Art II Sec 78.21-28	CC
Parks & Recreation Advisory Board											7		3yr				Art IV Sec 98	CC
Planning & Zoning Commission		X	X			X	X				7		3yr				Art III Sec 2.98-103	CC
Public Facilities & Transportation Improvements Naming Committee		X	X								7		st3yr				Ord 2011-16	CC
Weslaco Health Facilities Development Corporation											3+		6 yrs				Art 1528j, Vernons TX Civil Statue	CC
Weslaco Mid-Valley Airport Committee											7		st3yr				Art II Sec 6-33	CC
Weslaco 100		X	X								16		3yrs				R2013-52	CC

Application for Service

City of Weslaco Boards and Committees

Name of Applicant:	**Telephone Number:**	
E-Mail Address:	**Alternate Phone Number (work/cell):**	
Home Address:		[ ] Inside City Limits [ ] Outside City Limits
City:	**State:**	**Zip Code:**
How many years have you lived at this residence?		**Do you own this house?** [ ] Yes or [ ] No

Preference for consideration, naming committees on which you desire to serve:

1.)

2.)

3.)

List of Civic Involvement and Business Experience:

Have you been bonded or eligible to obtain one? [ ] Yes or [ ] No	**Are you currently suing or being sued by the City of Weslaco or any of its entities?** [ ] Yes or [ ] No
Are you related to any member of the Commission? [ ] Yes or [ ] No	**If so, who and how?**
Have you previously served on a City board? [ ] Yes or [ ] No	**If so, which and when?**
Have you ever been elected to public office? [ ] Yes or [ ] No	**If so, which and when?**
Do you consent to release this info to the public? [ ] Yes or [ ] No	**Are you age 25 or older?** [ ] Yes or [ ] No
The statements I have made on this Application for Service are truthful and I am not disqualified to serve due to nepotism, City of Weslaco Charter or Ordinances or State of Texas laws.	**Timestamp of Receipt:**
Applicant's Signature:	

Optional Demographic Information: Self Identification
Gender:
Age:
Race:
Religion:
Citizenship:

RESOLUTION NO. 2014-62

STATE OF TEXAS	§	**RESOLUTION ESTABLISHING A SCREENING, APPOINTMENT, CONFIRMATION AND ATTENDANCE POLICY FOR SERVICE ON CITY OF WESLACO BOARDS, COMMISSIONS, AUTHORITIES AND COMMITTEES**
COUNTY OF HIDALGO	§	
CITY OF WESLACO	§	

WHEREAS, The City of Weslaco has Standing Committees, Boards, Authorities and Commissions (hereafter called "Boards") that assist and recommend to the Weslaco City Commission programs and projects that benefit the citizens of Weslaco; and

WHEREAS, The Weslaco City Commission (hereafter called "Commission") also periodically creates *Ad Hoc* Boards to assist the City of Weslaco in addressing unexpected issues, projects or concerns; and

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Interested individuals shall submit to the City Secretary a Board application which will contain: 1) contact and demographic data; and 2) educational, professional, civic and other relevant credentials. This application will be kept on file until the end of the fiscal year in which it was submitted, ending on September 30.

Individuals shall confirm receipt the City's diversity, affirmative action, nepotism, ethics policies; the Board's mission, duties and responsibilities as established by Ordinance or other order; and other relevant documents. Individuals must agree to abide by Weslaco City Charter and applicable Ordinances, and state and federal laws.

B. Appointment

The City Manager may recommend the best qualified individuals to the City Commission. The Commission will attempt to appoint the best qualified individuals that will fairly represent the demographic characteristics of Weslaco.

To ensure greater public participation, individuals shall not serve concurrently on more than one Board, unless the Commission makes an exemption.

The Commission shall make fair and deliberative appointments that comply with the Weslaco City Charter and applicable Ordinances, and state and federal laws.

C. Confirmation

Prior to appointment by the Commission, individuals should confirm that they remain interested in serving on a particular Board by either: 1) attending the Commission meeting which has the item on the Commission's Agenda; or 2) submitting a written statement of interest to the Mayor.

D. Attendance

Three absences, not limited to consecutive, from any board or committee as appointed is established as just cause for removal and replacement by the Commission.

E. Qualification

Individuals that have pending litigation against the City of Weslaco or any of its entities shall not be eligible for an appointment to City of Weslaco Committees, Boards, Authorities and Commissions.

PASSED AND APPROVED on this 2nd day of December, 2014.

CITY OF WESLACO

David Suarez, **MAYOR**

ATTEST:

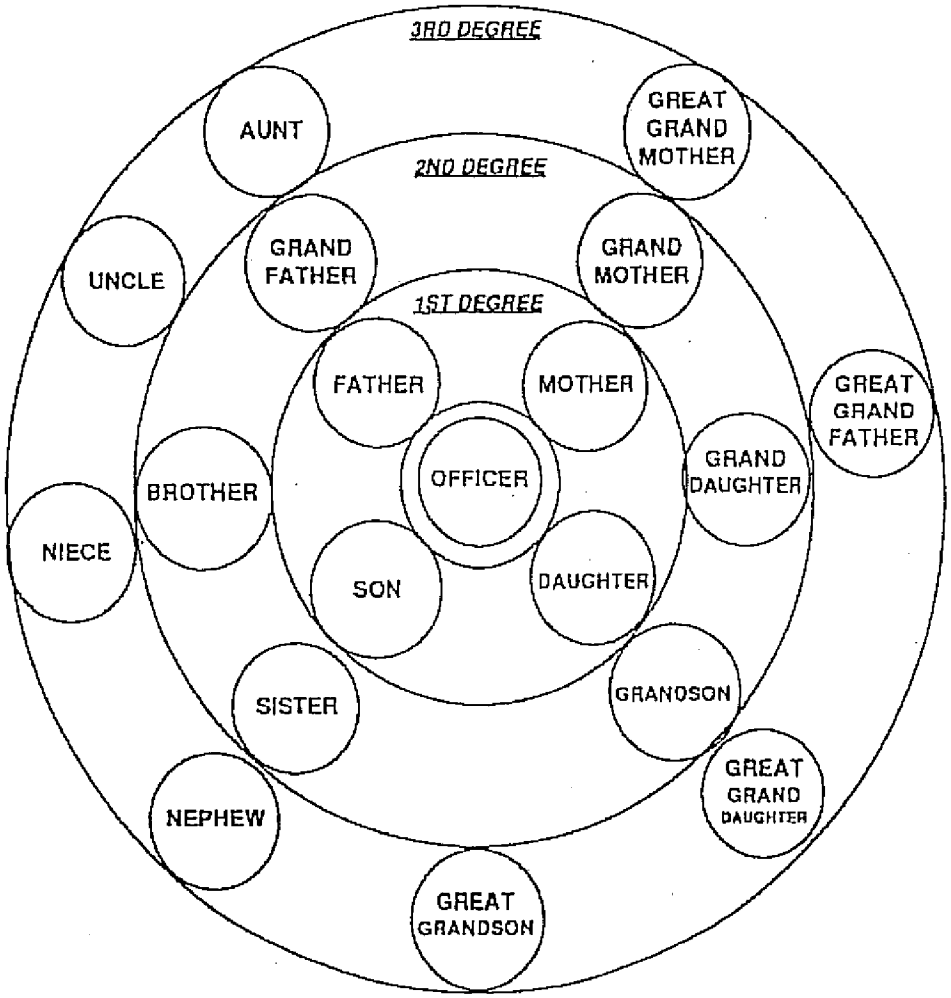
WCC 12/2/14

Rebekah de la Fuente, **INTERIM CITY SECRETARY**

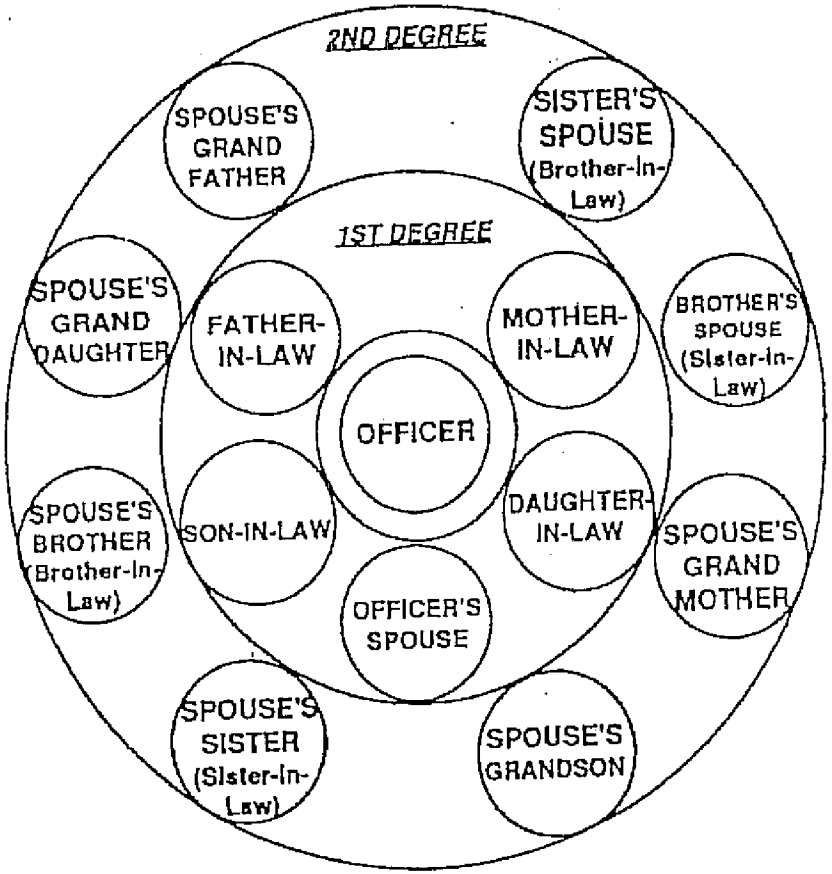
APPROVED AS TO FORM:

Frank Garza, **INTERIM CITY ATTORNEY**

TEXAS NEPOTISM 1992



Consanguinity Kinship Chart
(Blood)



Affinity Kinship Chart
(Marriage)

Elizabeth M. Walker

From: ALAN GONZALEZ <alangt1982@mac.com>
Sent: Monday, October 24, 2016 10:47 AM
To: Andrew Muñoz
Cc: Bud Payne; ramon@montalvoinsurance.com; Randall L. Summers; Art E. Beckwith; Terry Barbee; Don Ed Holmes; Elizabeth M. Walker
Subject: Resignation - Alan Gonzalez

Dear Andrew,
It has been my pleasure to serve on the board of the Mid Valley Airport Advisory Board. You are providing strong leadership and I know that Mid-Valley will attain its goals in the coming years.

That said, I must resign my position effective immediately as my wife and I are retiring to the Texas Hill Country. It was a pleasure getting to know some of the community leaders here in Weslaco and wish everyone the very best.

Thank you,

Alan Gonzalez
321 Lucy Lane
Horseshoe Bay, Texas 78657
(210) 289-8964

Weslaco Mid-Valley Airport Committee

Term Starts	Term Ends	Last	First
6/22/2016	6/22/2017	Gonzalez	Alan L.
6/08/2016	6/08/2018	Holmes	Don Ed
6/08/2016	6/08/2018	Beckwith	Art E.
6/22/2016	6/22/2018	Payne	Bud
6/08/2016	6/08/2019	Montalvo, III	Ramon
6/08/2016	6/08/2019	Summers (Chairman)	Randall L.
6/08/2016	6/08/2019	Barbee (Vice-President)	Terry

Revised as of 102616 by mv

RESOLUTION NO. 2016-66

A RESOLUTION OF THE CITY OF WESLACO APPOINTING ONE MEMBER TO THE WESLACO MID-VALLEY AIRPORT COMMITTEE.

WHEREAS, the City of Weslaco has established the Weslaco Mid-Valley Airport Committee pursuant to Section 6-34 of the Weslaco Municipal Code Book; and

WHEREAS, the members of this board shall serve staggered terms of three years with not more than two committee member's terms expiring on the same date years; and

WHEREAS, the Weslaco Mid-Valley Airport Committee members shall serve without compensation; and

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COMMISSION OF THE CITY OF WESLACO, TEXAS THAT_____ is appointed to serve an unexpired term on the Weslaco Mid-Valley Airport Committee and your term will begin on _____, 2016 and expire on June 22, 2017.

PASSED AND APPROVED on this 1st day of November 2016.

CITY OF WESLACO

_____
David Suarez, **MAYOR**

ATTEST:

_____
Elizabeth M. Walker, **CITY SECRETARY**

APPROVED AS TO FORM:

_____
Juan E. Gonzalez, **CITY ATTORNEY**

Standardized Agenda Request Form

Date of Meeting: November 1, 2016	**Agenda Item No.** (to be assigned by CSO)**:** 2016-514

From:

Subject:
Discussion and consideration to amend the contract with Severn Trent Services to adjust the annual base fee and compensation effective as of the adjustment date for the budget year 2016-2017 and authorize the Mayor to execute any related documents. Possible action. (Requested by Severn Trent.)

Background:
Section 5.1 of the contract provides for an annual adjustment to the base fee based on negotiating a mutually agreeable increase. After Severn Trent's original request of about 7%, the City Manager was able to negotiate with representatives of the company and mutually agreed to an increase of about 5%. Several factors were considered, such as increases in the amount of sludge disposal, chemical costs and lab testing, which were supported by documentation.

Funding Source (budget code, if applicable)**:**

Amount:	Term of Impact:	Identified in Current Budget:

Additional Action Prompted:
Mayor's Signature

If item previously considered, provide date and action by Commission:

If item requires Publication Notice, provide date and periodical of publication; indicate if comments received from letters mailed to property owners:

Advisory Review, if any (name of board/committee, date of action, recommendation)**:**

Mary Barrera	Created/Initiated
Mary Barrera	Approved
Mike Perez	Final Approval

City Manager Comments:

Staff Recommendation:
Staff recommends approval of the final negotiated amount.

Attachments, if any:
Proposed contract-Original, Proposed contract-Negotiated

Responsibilities upon Approval:
Approval for City Manager to execute the acknowledgment of the proposed amendment letter for budget year 2016-2017.

ORIGINAL

Severn Trent Services
2500 N. Texas Blvd
Weslaco, TX 78596

T: 956-968-2833
F: 956-969-3525

www.severntrentservices.com

September 26, 2016

Mike R. Perez
City Manager
City of Weslaco
255 S. Kansas
Weslaco, Texas 78596

Re: Proposed Amendment Letter for Budget Year 2016-2017

Dear Mr. Perez:

Severn Trent is pleased to have the opportunity to continue providing professional operations and maintenance services for the City of Weslaco's water and wastewater treatment facilities. Severn Trent will continue to dedicate our people, programs, and technologies to work together in partnership with you to meet the City's water and wastewater challenges in an innovative and cost-effective manner.

As you are aware the cost of doing business in the waterworks industry has continued to escalate due to fluctuation in fuel, energy, and raw materials costs. These higher costs have directly affected our daily operational cost as they have impacted the City's budget as well.

Our first year has seen many changes as Severn Trent and the City have worked together to provide needed improvements to the system for the community. I have outlined these changes below and their impact on the service costs.

Repair and Maintenance Limit - As per Schedule 5. Sec. 1. of our original agreement, the repair and maintenance limit for the first year is Two Hundred and Fifty Six Thousand Dollars ($256,000.00.). Severn Trent anticipates by end of September 2016, the maintenance expenditures will be $482,215. At this time we anticipate the maintenance limit will be exceeded by $226,215. We are not proposing an increase at this time due to many of these items were one time capital improvement costs. We will continue to manage the budget and look for ways to help the City optimize costs by performing capital improvements whenever possible.

Baseline Conditions – As per Schedule 6 of our original agreement, the baseline annual average flow was exceeded during the first year. The North WWTP is 2.10 MGD **actual flow is 2.26 MGD**; the South WWTP is 0.93 MGD **actual flow is 1.35 MGD**; and the Water Plant is 4.212 MGD actual **flow is 4.940 MGD**. The annual flows have a combined increased average of 23.42 percent. The increase flow will require additional sludge disposal and chemical usage. We request an additional $68,000 in chemicals to meet this baseline increase. We also request an additional $38,500 in sludge hauling to meet flow increase. We anticipate the start-up and operations of Water Plant 2, 3, and 4 will also impact sludge and chemical costs however at this time we are not proposing any additional increases.

Correspondence should be addressed to:
Severn Trent Services, Inc.

Lab Services – Additional lab costs were incurred during the first year. TCEQ initiated a nitrification action plan (NAP) that requires daily testing of the plant and distribution system. This year TCEQ also required lead and copper samples and the Long Term 2 Enhanced Surface Water Treatment (LT2) testing for cryptosporidium. We anticipate the start-up and operations of Water Plant 2, 3, and 4 will also impact lab services. Due to the anticipated partial plant start-up, only Plant 2 lab costs are requested at this time. We request an additional $15,000 to meet these actual and estimated testing increases.

Severn Trent Annual Base Fee: Second Agreement Year – Increase 2.96%. As proposed on the meeting of September 14, 2016, an increase of 2.96% will be made to the monthly statement following the release of September 2016 Consumer Price Index data. The effective annual base fee adjustment date will be October 2016.

Below is a table summarizing the above conditions.

2015-2016 Base Fee	$2,450,154.00
Annual Base Fee 2016-2017 Increase **2.96%**	$72,252.58
Chemical Base Increase	$68,000.00
Repair and Maintenance Base Increase	$0.00
Sludge Disposal Base Increase	$18,878.00
Lab Services Base Increase	$15,000.00
Total Proposed Annual Agreement 2016-2017 Base Fee	**$2,624,284.58**
Difference Total:	$174,130.58

Acknowledgment:

_____ _____

Mike Perez, City Manager Date

We look forward to each upcoming year as an opportunity to grow with the City and provide world class service for the community.

Please call me if you have any questions or would like any additional information about this proposal.

Respectfully,

Trinidad Cantu,
Project Manager

Cc: Oswaldo Garza, Branch Manager

SEVERN TRENT SERVICES

Severn Trent Services
2500 N. Texas Blvd
Weslaco, TX 78596

T: 956-968-2833
F: 956-969-3525

www.severntrentservices.com

NEGOTIATED

October 3, 2016

Mike R. Perez
City Manager
City of Weslaco
255 S. Kansas
Weslaco, Texas 78596

Re: Proposed Amendment Letter for Budget Year 2016-2017

Dear Mr. Perez:

Severn Trent is pleased to have the opportunity to continue providing professional operations and maintenance services for the City of Weslaco's water and wastewater treatment facilities. Severn Trent will continue to dedicate our people, programs, and technologies to work together in partnership with you to meet the City's water and wastewater challenges in an innovative and cost-effective manner.

As you are aware the cost of doing business in the waterworks industry has continued to escalate due to fluctuation in fuel, energy, and raw materials costs. These higher costs have directly affected our daily operational cost as they have impacted the City's budget as well.

Our first year has seen many changes as Severn Trent and the City have worked together to provide needed improvements to the system for the community. I have outlined these changes below and their impact on the service costs.

Repair and Maintenance Limit - As per Schedule 5. Sec. 1. of our original agreement, the repair and maintenance limit for the first year is Two Hundred and Fifty Six Thousand Dollars ($256,000.00.). Severn Trent anticipates by end of September 2016, the maintenance expenditures will be $482,215. At this time we anticipate the maintenance limit will be exceeded by $226,215. We are not proposing an increase at this time due to many of these items were one time capital improvement costs. We will continue to manage the budget and look for ways to help the City optimize costs by performing capital improvements whenever possible.

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Severn Trent Annual Base Fee: Second Agreement Year – Increase 2.96%. As proposed on the meeting of September 14, 2016, an increase of 2.96% will be made to the monthly statement following the release of September 2016 Consumer Price Index data. The effective annual base fee adjustment date will be October 2016.

Below is a table summarizing the above conditions.

2015-2016 Base Fee	$2,450,154.00
Annual Base Fee 2016-2017 Increase **1.96%**	$48,023.00
Chemical Base Increase	$49,413.00
Repair and Maintenance Base Increase	$0.00
Sludge Disposal Base Increase	$17,767.00
Lab Services Base Increase	$15,000.00
Total Proposed Annual Agreement 2016-2017 Base Fee	**$2,580,357.00**
Difference Total:	$130,203.00

Acknowledgment:

_____ _____

Mike Perez, City Manager Date

We look forward to each upcoming year as an opportunity to grow with the City and provide world class service for the community.

Please call me if you have any questions or would like any additional information about this proposal.

Respectfully,

Trinidad Cantu,
Project Manager

Cc: Oswaldo Garza, Branch Manager

Attachment A

The below chemical costs are only for the Water Plant and only represent the amount over the 4.21 baseline. See "Attachment B" for chemical data.

Alum – 15,980 gallons/yr. =	$19,723.00
Hypo – 20,131 gallons/yr. =	$18,724.00
Chlorite – 657 gallons/yr. =	$5,683.00
LAS – 4,015 gallons/yr. =	$4,292.00
Acid – 1,190 gallons/yr. =	$990.00
Total Overage Year Cost:	**$49,413.00**

The below sludge disposal costs are for all treatment plants and only represent the amount over the 4.21 baseline. See "Attachment C" for sludge data.

North Wastewater Plant – 63,630,000 gallons/yr. =	$7,864.00
South Wastewater Plant – 153,750,000 gallons/yr. =	$4,587.00
Water Plant – 269,090,000 gallons/yr. =	$5,316.00
Total Overage Year Cost:	**$17,767.00**

The below laboratory costs are for all treatment plants and represent the actual laboratory FY expenses.

North Wastewater Plant =	$54,970.00
South Wastewater Plant =	$39,840.00
Water Plant =	$5,674.00
Total Year Cost:	$94,810.00

The actual laboratory expenses for this fiscal year have exceeded Severn Trent's initial proposed laboratory budget of $35,000. We had not anticipated the amount of testing the City was performing and it was our interest to provide the City with same data it was accustomed to. However, after careful review of all TCEQ discharge permits we are confident the actual laboratory services could be scaled down without compromising plant operations. **An additional $15,000 is requested to meet the new laboratory scope.** See "Attachment D, E, and F" for laboratory data.

Standardized Agenda Request Form

Date of Meeting: November 1, 2016	**Agenda Item No.** (to be assigned by CSO)**:** 2016-535

From:

Subject:
Discussion and consideration to approve sludge hauling at the Water Treatment Plant and authorize the Mayor to execute any related documents. Possible action.
(Requested by Severn Trent.)

Background:
Discussion and consideration to authorize the removal of accumulated sludge from the Water Treatment Plant; authorize a budget amendment as needed, and authorize the Mayor to execute any related documents.

Funding Source (budget code, if applicable)**:**

Amount:	Term of Impact:	Identified in Current Budget:

Additional Action Prompted:

If item previously considered, provide date and action by Commission:
n/a

If item requires Publication Notice, provide date and periodical of publication; indicate if comments received from letters mailed to property owners:
n/a

Advisory Review, if any (name of board/committee, date of action, recommendation)**:**
n/a

Elizabeth Walker	Created/Initiated
Mike Perez	Final Approval

City Manager Comments:

Staff Recommendation:
Approve

Attachments, if any:

Responsibilities upon Approval:

HALL BUICK · GMC

Shop Order

City of Weslaco Fire Department
Cinder MVP Pumper

Exp. Date:	10/15/2016	
Quote No:	10086-0002	
LEGALS:	FFA-00-300	Legals - Pumpers
CHASS-CUSM:	FCH-71-400	CHASSIS - MVP 1000 Gallon
CHASS-MODS:	FCM-70-100	Chassis Mods - STOCK/CINDER
PUMP-ENC:	FPE-20-150	Pump Enclosure - SM Extruded - MVP
BODY:	FBP-36-400	Bodies - MVP SM Extruded - 1000 Gallons
BODY-CMNT:	FBC-30-100	Body Components - Pumpers
ELE-CMPNT:	FEC-30-200	Elec. Components - Pumper Custom
PAINT:	FPC-10-600	Paint - MVP Pumper
WRNTY-MNLS:	FWM-50-200	Warranty / Manuals - Pumpers Custom MVP
EQUIPMENT:	FEP-30-20	Loose Equipment Pkg. - Pumper MVP

PART NO	S	DESCRIPTION	QTY	ID
		== Legals - Pumpers - 1606.001 06/03/16 ==	***1***	***FE***
00-02-2420	***S***	***Proposal Response (Pumper)***	***1***	***FE***
00-04-0220		***Apparatus Purchase - Buy Board Contract***	***1***	***FE***
00-06-0620		***Payment Terms: Hall Motors Standard***	***1***	***FE***
00-12-0220		Single Source Manufacturer	1	FE
00-12-0420		Manufacturer - Virtual	1	FE
00-12-0620	***S***	***Principal Dimensions***	***1***	***FE***
00-12-0820		Certified Welders	1	FE
00-12-1020		Body Weight	1	FE
00-14-0620		Drawings - Approval	1	FE
00-16-0420		***Pre-Construction Conference - Factory (Lodging/Meals) Per Person***	***3***	***FE***
00-16-6420		***Final Inspection - Factory (Lodging/Meals) Per Person***	***3***	***FE***
00-18-0820		***Vehicle Transportation - Over the Road (Per Mile)***	***647***	***FE***
00-18-1820		***Delivery Time: Calendar Days***	***180***	***FE***
00-18-2020		Vehicle Familiarization & Demonstration	1	FE
00-22-0220		Service Contacts	1	FE
00-22-0620		Company Service Vehicles	1	FE
00-22-0820		Replacement Parts	1	FE
		== CHASSIS - MVP 1000 Gallon - 1605.001 05/02/16 ==	***1***	***FE***
00-D2-0620		***Custom XD Full Tilt Cab - CINDER MVP***	***1***	***FE***
		WHEELBASE / FRAMERAILS / COMPONENTS / ACCESSORIES	***1***	***FE***
02-A2-0220	***S***	***Wheelbase: 208"***	***1***	***FE***

PART NO	S	DESCRIPTION	QTY	ID
02-A4-0420		Framerail - Double	1	FE
02-A4-2020		Paint - Frame Rail, Gloss Black	1	FE
		FRONT BUMPERS / COMPONENTS / ACCESSORIES	1	FE
02-C4-2220		Front Bumper Extension - 24"	1	FE
		FRONT AXLES / COMPONENTS / ACCESSORIES	1	FE
04-A2-0820		Front Axle - 22,500 Pounds, Meritor MFS-20	1	FE
04-A6-0620		Steering System - TRW, Over 21,500 Pounds	1	FE
04-A8-0220		Chassis Alignment	1	FE
04-B2-1020		Front Suspension - 22,500 Pounds, Parabolic	1	FE
04-C2-0620		Front Brakes - Disc, Meritor EX-225	1	FE
04-C4-0220		Cramp Angle - 41 Degrees	1	FE
04-D2-1020		Front Tires - Goodyear 425/65R22.5 "L" G296 MSA 22,500 Pounds	1	FE
04-E2-2820		Front Wheels - Aluminum (425 Tires)	1	FE
04-E4-0220		Wheel Trim - Front, Baby Moons/Lug Nut Covers	1	FE
04-E4-2020		Mud Flaps - Front	1	FE
		SINGLE REAR AXLES / COMPONENTS / ACCESSORIES	1	FE
04-G6-1020		Rear Axle - 35,000 Pounds, Dana Spicer S35-190	1	FE
04-K2-8620		Rear Suspension - 35,000 Pounds, Spring	1	FE
04-M2-0220		Standard Differential - Single Axle	1	FE
04-M6-0420		Vehicle Top Speed: 60-62 MPH	1	FE
04-P2-0220		Rear Brakes - S-Cam 16-1/2" x 7"	1	FE
04-R2-4820		Rear Tires - Goodyear 315/80R22.5 "L" G670RV 35,000 Pounds	1	FE
04-S2-2420		Rear Wheels - Aluminum (315 Tires)	1	FE
04-S6-1220		Tire Pressure Monitor (2 Axles) - LED Alert	1	FE
04-T2-0220		Wheel Trim - Rear, Lincoln Hats	1	FE
		AIR BRAKE SYSTEM / COMPONENTS	1	FE
06-A2-0220		Harness and Hose Routing System	1	FE
06-A2-0420		Air Brake System - Color Coded Nylon w/1/4 Turn Drain Valves	1	FE
06-A2-4020		Chassis Air System Fittings - Push-Lock Type	1	FE
06-A4-4020		ABS/ATC/ESC System - SINGLE AXLE	1	FE
06-B4-0420		Automatic Moisture Ejectors (All Reservoirs)	1	FE
06-B4-2020		Air Dryer - Bendix AD-9	1	FE
		ENGINES / COMPONENTS / ACCESSORIES	1	FE
08-A2-1020		Engine - 450 HP, Cummins ISL9 (EPA 2016)	1	FE
08-B2-0620		Engine Brake - Cummins ISL Engine	1	FE
		ENGINE / COMPONENTS / COOLING SYSTEM - ISL	1	FE
08-C2-0420		Cooling System - 1400 Square Inch Radiator	1	FE
08-C2-1420		Cooling System Fan - Cummins ISL	1	FE
08-C2-2620		Radiator Coolant - Extended Life	1	FE
08-C2-4220		Coolant Hoses - Premium Rubber	1	FE
08-C2-4420		Coolant Hose Clamps - Gates PowerGrip	1	FE
08-C2-6020		Auxiliary Engine Cooler	1	FE
		ENGINE / COMPONENTS / CHARGING SYSTEMS	1	FE
08-D2-2220		Alternator - 430 AMP, Delco Remy 55SI	1	FE
08-E2-0620		Battery System - 6 Group 31	1	FE
08-E4-0220		Battery Boxes - Stainless Steel	1	FE
08-E6-0220		Battery Master Load Disconnect	1	FE
08-E6-0420		Total System Manager w/High Idle - Class 1	1	FE
08-E8-4420		Battery / Air Charger - Pump Plus 1200, Kussmual 52-21-1100	1	FE
08-G4-2020		Receptacle - Kussmaul 20 AMP Super Auto-Eject 091-55-20-120	1	FE
		Location: Driver's side cab wheel well area		

PART NO	S	DESCRIPTION	QTY	ID
08-G6-0220		Cover - Super Auto Eject Yellow, Kussmaul 091-55YW	1	FE
08-G8-2020		Digital Display - Remote, Kussmual 091-199-01	1	FE
		Location: Driver's seat riser		
08-G8-8220		Plate - Shore Power Inlet	1	FE
		TRANSMISSION / COMPONENTS / ACCESSORIES	1	FE
10-A2-0220		Transmission - Allison 3000 EVS	1	FE
10-A4-0620		Transmission Push Button Shifter - 5 Speed	1	FE
10-H2-0220		Driveline - 1710 Series	1	FE
10-H4-1820		Fire Pump Installation	1	FE
		FUEL SYSTEM / COMPONENTS - ISL	1	FE
10-J2-0620		Fuel Tank - 65 Gallon	1	FE
10-J4-0220		Fuel Lines - Reinforced Wire Braided	1	FE
10-J4-0420		Valve - Fuel Shutoff	1	FE
10-J4-0820		Fuel Filter - Secondary Filter	1	FE
10-J4-2020		Fuel Water Separator - Primary Filter	1	FE
10-J6-0220		DEF System w/5 Gallon Tank - L1 Compartment	1	FE
10-M2-0820		Exhaust System - EPA 13 Particulate Filer/SCR	1	FE
		CAB CONFIGURATIONS - CINDER XD - SMFD thru LFD	1	FE
12-H6-2220		Custom XD 96" XMFD Cab w/8" Raised Roof (MVP)	1	FE
12-P2-1020		Cab Doors - Full Length, 4 Door Raised Roof Cab	1	FE
12-P4-0220		Cab Door Hinges - Concealed	1	FE
12-P6-0820		Cab Door Locks - Manual Paddle Type (4 Door Cab)	1	FE
12-P8-1020		Window Regulators - Electric (4 Door Cab)	1	FE
12-R2-0620		Window - Left Side Fixed, 16-1/2"W x 33-1/2"H	1	FE
12-R2-0820		Window - Right Side Fixed, 16-1/2"W x 33-1/2"H	1	FE
12-R4-0420		Cab Tilt Lock Suspension (Full Tilt Cab)	1	FE
12-R4-2220		Cab Tilt Electric Pump w/Manual Back-Up (Standard Location)	1	FE
		CUSTOM CAB - EXTERIOR PAINT FINISH	1	FE
12-T2-0420		Paint - Custom Cab, Two Tone	1	FE
12-T2-0620		Upper Cab Paint Finish	1	FE
12-T4-8020		Upper Cab Paint Color/Code: Special	1	FE
		The upper cab color/code shall be Silver 751570 EW.		
12-T6-0220		Primary/Lower Cab Paint Finish	1	FE
12-T6-8020		Primary/Lower Cab Paint Color/Code: Special	1	FE
		The lower cab color/code shall be Blue 869761 EW.		
12-T8-0420	S	Two-Tone Cab Break Line Stripe: Spun Silver	1	FE
		CUSTOM CAB - EXTERIOR TRIM COMPONENTS	1	FE
14-A2-1420		Side Grille w/Ember Separator - Notched Right Side	1	FE
14-A6-2020		Exterior Trim - Rear Step Well w/Removable Battery Access Covers	1	FE
14-A6-8220		Exterior Trim - Tread Plate, Back of Cab	1	FE
		CUSTOM CAB - INTERIOR TRIM COMPONENTS	1	FE
14-G2-1020		Corrosion Protection/Sound Deadening - "F-Shield"	1	FE
14-G4-0220		Interior Cab Finish - "F-Shield" Dark Gray	1	FE
14-G4-2220		Interior Trim - Gray Floor Mats/Engine Tunnel Covering	1	FE
14-G4-6420		Interior Trim - Sprayed Aluminum, Rear Wall	1	FE
14-G6-0420		Interior Trim - Grab Handles (4 Door Cab)	1	FE
14-G6-4020		Interior Trim - Officer's Dash, Glove Box	1	FE

PART NO	S	DESCRIPTION	QTY	ID
14-G6-6020		Interior Trim - Sun Visors (3)	1	FE
14-H2-0820		Interior Trim - Upper Door Panels "F-Shield" (4 Door Cab)	1	FE
14-H2-4220		Interior Trim - Lower Door Panels "F-Shield" (4 Door Cab)	1	FE
14-H4-1220		Interior Trim - Lower Door Panels Reflective Stop Sign (4 Door Cab)	1	FE
		CUSTOM CAB - INSTRUMENTS AND CONTROLS	1	FE
14-K2-0220		Cab Instrumentation & Controls - Standard Gauges	1	FE
14-K2-0620		Driver's Information Display Panel	1	FE
14-K2-0820		Chassis Electrical System - Standard Wiring	1	FE
14-K2-2220		Switch Panel - Driver's Side (Pump Applications)	1	FE
14-K2-4220		Switch Panel - Center, 96" Wide XD Cab	1	FE
14-K2-6220		Switch Panel - Officer's Side	1	FE
14-K2-8220		Vehicle Data Recorder (VDR) w/Seat Belt Warning - Class 1	1	FE
14-K4-0420		Seat Belt Warning System Panel - Class 1	1	FE
14-K4-4020		Steering Column w/Self Canceling Turn Signals - Douglas	1	FE
14-P2-1620		Heat/Air Conditioning - Under Dash and Rear Crew Area	1	FE
14-P2-2620		A/C Condenser Housings: Special Color	1	FE
		CUSTOM CAB / SEATING / AIR BAG PROTECTION / EMS COMPARTMENTS	1	FE
16-A8-0620		Seat Material - Durawear	1	FE
16-A8-1220		Seat Color - Gray	1	FE
16-A8-2220		Fire Department Patch - Seat Head Rest	1	FE
16-B4-0220	S	Seat - Driver, Bostrom Sierra Air-100 Hi Back Air Ride	1	FE
16-B4-0620		Seat - Officer, Bostrom Tanker 450 Fixed SCBA	1	FE
16-B6-2220		Bracket - Cab Seat SCBA, IMMI SmartDock Gen II	1	FE
16-B6-4020		Filler Panel For SCBA Seat	1	FE
16-C4-0420		Seat - DS Rear Facing Crew, Bostrom Tanker 450 Fixed SCBA	1	FE
16-C6-4220		Bracket - Cab Seat SCBA, IMMI SmartDock Gen II	1	FE
16-C8-6020		Filler Panel For SCBA Seat	1	FE
16-D4-0420		Seat - OF Rear Facing Crew, Bostrom Tanker 450 Fixed SCBA	1	FE
16-D6-4220		Bracket - Cab Seat SCBA, IMMI SmartDock Gen II	1	FE
16-D8-6020		Filler Panel For SCBA Seat	1	FE
16-K2-0220		Compartment - Center Forward Facing EMS	1	FE
16-K2-0620		Door - Center Forward Facing EMS Compartment, Roll Up	1	FE
16-K2-2020		Anodized Aluminum Sill Plate - Roll Up Door	1	FE
16-K2-2420		Keyed Lock - EMS Compartment Door	1	FE
16-K4-0620		Light - EMS Compartment, 36" OnScene Access 73036	1	FE
16-K6-0220		Shelf - Adjustable, Center Forward Facing EMS Compartment	2	FE
16-K8-0220		Receptacle - EMS Compartment, 120V Duplex Household	1	FE
16-K8-0420		Outlet - EMS Compartment, 12V Power	1	FE
		CUSTOM CAB - ACCESSORIES	1	FE
16-M2-1420		12-Volt Dual USB Charging Port - Cab Mounted, Kussmaul 091-219	1	FE
16-M2-6020		12-Volt Power and Ground Studs (2)	1	FE
16-M2-6420		12-Volt Power Outlet - Cab Mounted	2	FE
		The outles shall be located on the officer's dash panel.		
16-M2-6620		Wiring - 12-Volt Outlet, Battery Direct	2	FE
16-M4-2620		Electronic Siren - Whelen 295HFS2	1	FE
16-M6-0620		Electric Horn - Single	1	FE
16-M6-2020		Back Up Alarm - 107 dB, Whelen WBUA107	1	FE
		CUSTOM CAB - INTERIOR LIGHTING	1	FE

PART NO	S	DESCRIPTION	QTY	ID
16-P2-0220		Lights (4) - LED Cab Dome, 6" Red/Clear Whelen 60CREGCS	1	FE
16-P2-6020		Light - Open Door, Whelen OS LED	1	FE
16-P4-0220		Lights (6) - Step Well, TecNiq D04 Linear Dragon	1	FE
16-R4-0420		Lights (2) - Engine Maintenance, LED	1	FE
		CUSTOM CAB - EXTERIOR ILLUMINATION	1	FE
18-A2-0220		Front Cab Lighting - LED	1	FE
18-A4-0220		Headlights - Halogen	1	FE
18-A6-0420		Lights - Turn Signal, 600 LED (Headlight Module Mounted)	1	FE
18-A6-1220		Lights - Turn Signal/Marker, LED	1	FE
18-A6-6020		Lights - Corning, LED	1	FE
18-A6-6220		Lights - DOT, LED	1	FE
18-B4-0420		Lights (2) - Inboard Lower Front Warning, Whelen 600 LED (Red)	1	FE
18-D2-0820		Lights (4) - LED Cab Ground, Whelen 20C0CDCD	1	FE
		== Chassis Mods - STOCK/CINDER - 1606.001 06/03/16 ==	1	FE
02-A6-1420		Tow Hooks - Chrome, Below the Bumper	1	FE
02-B2-1020		Front Bumper - 10-1/2" High, HD Frame Rail Style	1	FE
02-B4-0220		Recessed Pockets - Front Bumper Sides	1	FE
02-D2-0220		Gravelshield - Front Bumper Extension	1	FE
02-D4-0620		Compartment - Front Bumper, Center	1	FE
02-E6-1220		Cover - Flat Aluminum T/P w/Cut Out, Center Compartment	1	FE
02-K2-0220		Receiver Hitch - Below Front Bumper, Class 3	1	FE
02-K2-6220		Receiver Hitches (3) - Left/Right/Rear of Body, Class 3	1	FE
02-K6-0620		Additional 12V Power Connectors (3) - Portable Winch	1	FE
02-M6-4020		Mechanical Siren - DS Pedestal Mount (P7), Federal Q2B	1	FE
02-M8-0220		Siren Wiring - Active in Response Mode Only	1	FE
02-M8-0620		Switch - Siren, Driver's Side Floor	1	FE
		The switch shall be located on the front fire wall.		
02-M8-1820		Switch - Siren, Officer's Side Dash	1	FE
02-P2-0420		Air Horn - PS Thru Bumper (P2)	1	FE
02-P2-1020		Air Horn - DS Thru Bumper (P6)	1	FE
02-P6-0620		Switch - Air Horn, (2) Driver/Officer Side Floor	1	FE
		The driver's side switch shall be located on the front fire wall.		
02-R2-1420		Speaker - DS Thru Bumper (P7)	1	FE
02-R4-0420		Siren Speaker - Cast Product SA2401	1	FE
02-S2-1220		Bell - Electric Chrome w/Eagle	1	FE
		The bell shall be located on the passenger's side of extended front bumper.		
		The control shall be located in the officer's dash panel.		
14-A2-0830	S	Custom Front Grille - Stainless Steel, Lighted	1	FE
14-A4-0420		Cab Mirrors - Heated/Remote, FFA West Coast Style	1	FE
14-A4-8220		Cab Mirrors - Paint Housings Job Color	1	FE
14-H4-2220		Interior Trim - Mounting Plate, Engine Tunnel	1	FE
14-H4-4020		Interior Trim - Tool Mount Board, Pac Trac	2	FE
		There shall be a tool board, one-(1) each side on the rear cab wall, outboard the EMS compartment.		
16-M2-2030		Console - Engine Tunnel Mounted, MVP Style	1	FE

PART NO	S	DESCRIPTION	QTY	ID
16-M2-2220		***Radio - WB/AM/FM/CD/iPod/Sat w/Speakers, Jensen***	***1***	***FE***
18-M8-0220		***Camera - Back Up w/Color Monitor, Hanscom HC-7211***	***1***	***FE***
18-M8-0620	***X***	***Camera - Upper Rear View, Hanscom HC-IR250***	***1***	
18-M8-0820		***Camera - Officer Side View, Hanscom HC-SC45***	***1***	***FE***
		NFPA SAFETY SIGNS	**1**	**FE**
18-P2-0220		Safety Signs - General Requirements	1	FE
18-P2-1020		Plate - Carrying Capacity NFPA	1	FE
18-P2-1620		Safety Signs - Seated & Belted, FAMA07	1	FE
18-P2-1820		Safety Sign - Cab Equipment Mounting, FAMA10	1	FE
18-P2-2020		Safety Sign - Fire Service Tire Rating, FAMA12	1	FE
18-P2-2220		Safety Sign - Cab Seating, FEMA14	1	FE
18-P2-2420		Safety Signs - Helmet Worn in Cab, FAMA15	1	FE
18-P2-2820		Safety Signs - Climbing Method Instruction, FAMA23	1	FE
18-P2-4020		Safety Signs - Riding on Exterior, FAMA24	1	FE
18-P4-0620		Plate - Overall Height/Length/Weight	1	FE
18-P4-0820		Plate - Fluid Capacity	1	FE
18-P4-1020		Safety Sign - Apparatus Movement Warning	1	FE
		== Pump Enclosure - SM Extruded - MVP - 1606.001 06/03/16 ==	***1***	***FE***
20-A2-1220		PUMP MODULE - SIDE MOUNT EXTRUDED ALUMINUM - ENCLOSED	1	FE
20-A4-4020		Trim - Dunnage Area, Tread Plate	1	FE
20-C4-2020		Pump Panels - Black Anodized Aluminum	1	FE
20-C6-1020		***Pump Panel - Fully Hinged, Right Side***	***1***	***FE***
20-D6-0220		Light - Left Side Pump Panel, OnScene LED Access	1	FE
20-D6-1220		Light - Right Side Pump Panel, OnScene LED Access	1	FE
20-D8-0220		Light - Pump Compartment, Halogen	1	FE
20-F8-0220		***Slide-Out Platform - Pump Operator's, 500-Pound Capacity***	***2***	***FE***
20-H4-0420		***Air Outlet - Pump Panel w/25' Hose***	***1***	***FE***
20-H4-0820		***Switch - Air Horn, Pump Panel***	***1***	***FE***
20-J4-2420		***Pressure Governor - Class 1 TPG Plus***	***1***	***FE***
20-J6-0220		Gauges - 2-1/2" Pressure, Metal Face	1	FE
20-J6-6220		***Gauge Bezels - Color Coded***	***1***	***FE***
20-M4-0220		Tags - Pump Panel, Color Coded (Metal)	1	FE
22-A2-0420		Pump System - 1250-2000 GPM Single Stage, Hale QMAX	1	FE
22-F2-0220		Packing Glands - Hale	1	FE
22-G2-0220		Pump Shift - Dash Mounted	1	FE
22-J8-1020		***Primer - Automatic Air w/Lift Gauge, Trident 31.011.0 (1250+ GPM)***	***1***	***FE***
22-P2-0620		Valve - Master Pump Drain	1	FE
22-P2-1220		Valve - Individual Drain, 3/4" 1/4 Turn	1	FE
22-R2-0220		U.L. Test Points	1	FE
22-R2-2220		***Certification - U.L. 2000 GPM Pump***	***1***	***FE***
22-R4-0420		Plate - Pump Test Certification	1	FE
24-A2-4420		***Suction Header Short - 6" w/Manual MIV Valve, Left Side***	***1***	***FE***
24-B2-4420		***Suction Header Short - 6" w/Manual MIV Valve, Right Side***	***1***	***FE***
24-J8-0420		Valve - Intake Relief, Akron 59	1	FE
24-R2-1020		Tank-To-Pump - 3" Valve w/Air Control	1	FE
24-S6-1220	>	Tank Fill - 2" Valve w/Electric Control	1	FE
24-T2-0420		Cooler - Engine, 1/2" Line w/ 1/4 Turn Valve	1	FE
24-T2-0620		Cooler - Pump, 3/8" Line w/ 1/4 Turn Valve	1	FE
24-W2-0220		Plumbing - Galvanized Steel	1	FE

PART NO	S	DESCRIPTION	QTY	ID
24-W2-0620		***Plumbing - Stainless Steel Foam Manifold***	***1***	***FE***
24-W4-0220		Paint - Pump, Black	1	FE
		VALVE PACKAGE - AKRON - Controls Electric	**1**	**FE**
26-C2-0000		SUCTION INLETS	1	FE
26-F2-0420		***Suction - LPR, 2-1/2" Valve w/Swing Control***	***1***	***FE***
28-00-0000		DISCHARGE OUTLETS	1	FE
28-00-0220		All 2-1/2" Side Discharge Outlets Terminate 30-Degree Elbows	1	FE
28-A6-0220		***Discharge - Front Bumper w/ Swivel - thru Tread Plate (PS)***	***1***	***FE***
28-A8-0620		***Discharge - Front Bumper, 2" Valve w/Electric Control***	***1***	***FE***
28-A8-6020		***Discharge - Swivel Stop, Treadplate***	***1***	***FE***
28-F2-8420		Speedlays - (2) 200' 1-3/4" (1) 2-1/2" Double Lay, MVP Style	1	FE
28-F4-0620		Speedlay No. 1 - Double Lay, 2" Valve w/Electric Control	1	FE
28-F4-1820		Speedlay No. 2 - Double Lay, 2" Valve w/Electric Control	1	FE
28-F4-6220		Speedlay No. 3 - Double Lay, 2-1/2" Valve w/Electric Control	1	FE
28-F6-0620		Trays - Removable Speedlay (3)	1	FE
28-F8-0420		Cover - End Flaps w/Snaps, Speedlays (3)	1	FE
28-F8-2020		Cover Color: Red	1	FE
28-H8-0620		Discharge - LPF, 2-1/2" Akron Valve w/Electric Control	1	FE
28-J8-0620		Discharge - LPR, 2-1/2" Akron Valve w/Electric Control	1	FE
28-M2-2620	>	Discharge - RPF, 3" Akron Valve w/Electric Control	1	FE
28-P6-0620		Discharge - RPR, 2-1/2" Akron Valve w/Electric Control	1	FE
28-Q6-0620		***Discharge - Deck Gun, 3" Akron Valve w/Electric Control***	***1***	***FE***
28-R2-0220		***Telescoping Waterway - 3" Manual, TFT XG18VL-PL Extend-A-Gun***	***1***	***FE***
28-R4-0220		***Monitor - Electric Deck, Akron DeckMaster 3440***	***1***	***FE***
28-R4-0420		***Master Stream Nozzle - Electric Monitor, Akron 1577***	***1***	***FE***
28-T6-1820		***Preconnect - RF Hosebed, 2-1/2" Akron Valve w/Electric Control***	***1***	***FE***
30-C2-0220		***Foam System - Foam Pro 1600***	***1***	***FE***
30-J2-2020		***Gauge - Class A Foam, FRC Tank Vision Pro WLA360-A00***	***1***	***FE***
30-K8-4220		***Tank Switch (1) Low Level - Horizontal Mount***	***1***	***FE***
30-M4-0420		***Flowmeter - Tee Mount w/kit, 2"***	***1***	***FE***
30-R2-0620		***Placard - Operating System, Single Tank***	***1***	***FE***
30-R8-0220		***NFPA Test - Foam Proportioning Systems***	***1***	***FE***
30-S2-0220		***Foam Tank No. 1 - Polypropylene, 10 Gallons***	***1***	***FE***
30-T2-0200		***FOAM OUTLET LOCATIONS:***	***1***	***FE***
30-T2-0420		***Foam Outlet - Discharge Front Bumper***	***1***	***FE***
30-T2-1220		***Foam Outlet - Speedlay No. 1***	***1***	***FE***
30-T2-1420		***Foam Outlet - Speedlay No. 2***	***1***	***FE***
32-E2-2020		***Return Line - Fill Subsurface***	***1***	***FE***
		== Bodies - MVP SM Extruded - 1000 Gallons - 1606.001 06/03/16 ==	***1***	***FE***
32-A2-2820		***Water Tank - Polypropylene, 750 Gallons (R)***	***1***	***FE***
32-D8-0420		***Certification - NFPA Water Tank Size***	***1***	***FE***
34-A2-1220		***Gauge - Water Level, Tank Vision Pro WLA300-A00***	***1***	***FE***
52-A4-8420		Body - 103" Wide, MVP1000 Extruded Aluminum	1	FE
52-A6-4020		Body Subframe - Extruded Aluminum	1	FE
52-A6-6420		Body/Compartment Construction - 103" Wide Body	1	FE
52-A8-0420		Wheel Well Panels & Fenders - Body, Painted Aluminum	1	FE
52-A8-1820		***Hose Bed - 44" Wide***	***1***	***FE***
52-D6-2820		Compartments- Left Side, Full Depth Rescue Style (32.5/57/58/59 w/74" Interior)	1	FE
52-F2-4220		Compartment Doors - Left Side Hinged, NON_Locking Flush Look	2	FE

PART NO	S	DESCRIPTION	QTY	ID
52-F2-6220		***Compartment Door - Left Side Roll Up, Painted (Slats & Door Frame)***	***4***	***FE***
52-F2-6620		***Pull Down Strap - Compartment Door***	***4***	***FE***
52-H4-4620		Compartments- Right Side, Full Depth Rescue Style (32.5/57/58/59 w/74" Inter	1	FE
52-J6-0220		Compartment Doors - Right Side Hinged, NON_Locking Flush Look	2	FE
52-J6-2220		***Compartment Door - Right Side Roll Up, Painted (Slats & Door Frame)***	***4***	***FE***
52-J6-2620		***Pull Down Strap - Compartment Door***	***4***	***FE***
52-J8-1620		Compartment - Center Rear, Full Height w/Roll Up Door	1	FE
52-J8-4220		***Compartment Door - Rear Roll Up, Painted (Slats & Door Frame)***	***1***	***FE***
52-J8-4620		***Pull Down Strap - Compartment Door, Rear***	***1***	***FE***
52-J8-6220		Rear Body Construction - Flat Back Design	1	FE
58-E2-0820	>	Compartments (6) - Roof Top Storage	1	FE
62-A2-8220		***Compartment - Ladder/Pike Pole Storage, Thru Tank***	***1***	***FE***
62-B2-1620		***Tubes (4) - Pike Pole Storage***	***1***	***FE***
		The tubes shall be located in the ladder compartment.		
62-I2-0220		***Compartment - Speedy Dry Storage, Roof Top Compartment***	***1***	***FE***
62-I2-1420		Storage Module - Backboard, Transverse	1	FE
62-I2-4020		***Equipment Rack - Air Bag Storage***	***1***	***FE***
		The air bag modele shall be located to the left of the equipment module in compartment R5 to match H5393.		
62-I2-6220		***Storage Module - Dual Chain Saw***	***1***	***FE***
		The module shall be located on the forward back wall of compartment L6.		
62-I2-6620	***S***	***Storage Module, MVP Pumper, Compartment L5***	***1***	***FE***
62-I2-6820		***Storage Module, MVP Pumper, Compartment R4***	***1***	***FE***
62-I2-8020		***Storage Module, MVP Pumper, Compartment R5***	***1***	***FE***
64-B2-0430		***Compartment - Wheel Well Double Air Bottle, Left Front (FFA)***	***1***	***FE***
64-B4-0430		***Compartment - Wheel Well Double Air Bottle, Left Rear (FFA)***	***1***	***FE***
64-B4-6230		***Compartment - Wheel Well Double Air Bottle, Right Front (FFA)***	***1***	***FE***
64-B6-1420		***Compartment - Wheel Well Equipment Storage, Right Center MVP ONLY***	***1***	***FE***
64-B6-6230		***Compartment - Wheel Well Double Air Bottle, Right Rear (FFA)***	***1***	***FE***
64-B8-0220		***Doors - Wheel Well Compartments, Stainless Steel***	***1***	***FE***
66-A2-0220		Body Trim Package	1	FE
66-A2-0620	***S***	***Body Trim - Vertical Handrail (1), Knurled Aluminum***	***1***	***FE***
66-A2-1220		Body Trim - Rear Stanchions	1	FE
66-A2-2420	>	Fuel Fill - Recessed w/Door, Left Side	1	FE
66-A2-4420		Mud Flaps - Rear	1	FE
66-A2-4620	>	Rubrail - Extruded Aluminum	1	FE
66-A4-0820		***Step - 10" Rear, Aluminum Tread Plate***	***1***	***FE***
66-A4-8480		***Ladder - Rear Access, Zico Quic-Ladder RL15-2-6***	***1***	***FE***
		The ladder shall be located on the right rear of the apparatus.		
66-A4-8820		Tow Eyes (2) - Rear, Below Body	1	FE
66-A6-2220		Handrail - Below Hose Bed, Knurled Aluminum	1	FE
66-A8-1620	>	Divider - Hose Bed, Pumper	1	FE
66-A8-6220	< >	Cover - Aluminum w/End Flaps, Pumper/Tanker	1	FE
		The covers shall be wired the door ajar system.		

PART NO	S	DESCRIPTION	QTY	ID
66-A8-6420		Cover - End Flaps w/Snaps, Hose Bed	1	FE
66-A8-8020		Cover Color: Red	1	FE
66-A8-8820		> Hose Bed Capacity	1	FE
		== Body Components - Pumpers - 1606.001 06/03/16 ==	***1***	***FE***
66-B2-0420		***Shelf - Permanent, Smooth Aluminum***	***7***	***FE***
		There shall be a shelf located in compartment L3 (above the backboard storage, compartment L3 (right of the backboard storage), compartment B1 (left of the ladder tunnel), compartment B1 (right of the ladder tunnel), compartment R3 (above pump panel) and compartment R3 (left of the backboard storage).		
		The location if the seventh shelf shall be determined at the pre-construction meeting.		
66-B2-0620		***Unistruts - Aluminum, Per Compartment***	***2***	***FE***
		The adjustable tracking shall be located in compartment L4 and compartment R6.		
66-C2-0420		***Tray - 250 Pound Roll-Out, 19-36"W x 24-28"D***	***2***	***FE***
		There shall be a tray shall be floor mounted in compartment L4, right of the compartment divider and compartment R4, right of the storage module.		
66-C2-0620		***Tray - 250 Pound Roll-Out, 37-48"W x 24-28"D***	***3***	***FE***
		There shall be one-(1) tray floor mounted in compartment L6 (left of compartment divider), one-(1) floor mounted in compartment B1 and one-(1) adjustable in lower section compartment R6 (left of compartment divider).		
66-C2-2020		***Tray - 500 Pound Roll-Out, 37-48"W x 24-28"D***	***1***	***FE***
		The tray shall be floor mounted in compartment R6, left of the compartment divider.		
66-D4-0220		***Tool Board - Vertical Roll Out, 24-28"D x Full Height***	***3***	***FE***
66-D4-0420		***Tool Board - Vertical Roll Out, 24-28"D x 0-27"H***	***1***	***FE***
		The tool board shall be located on the upper section of compartment L6. The located will be on the left side of the full height compartment divider.		
66-D4-1020	***S***	***Storage Pocket - Vertical Tool Board***	***7***	***FE***
		There shall be two-(2) full height tool board located in compartment L4 (left of the compartment divider) and one-(1) full height tool board in compartment L6 (front side wall).		
		The compartment L4 tool boards shall be adjustable side to side.		
66-F4-0420		***Divider - Compartment***	***5***	***FE***
		There shall be a divider in compartment L4 (21" from the rear side wall), compartment L6 (10" from the rear side wall), compartment R4 (left of the roll out tray) and compartment R6 (13" from the front side wall).		
		The fifth divider shall be center mounted in the compartment R4 roll out tray.		

PART NO	S	DESCRIPTION	QTY	ID
66-F4-1020	***S***	***Turtle Tile - Compartment Floors, Black (Per Compartment)***	***17***	***FE***
66-F4-1620		***Turtle Tile - Compartment Shelf/Tray, Black (Per Shelf/Tray)***	***7***	***FE***
		== Elec. Components - Pumper Custom - 1606.001 06/03/16 ==	***1***	***FE***
		******* ELECTRICAL / COMPONENTS / ACCESSORIES *******	**1**	**FE**
70-A2-2020		Electrical System - Apparatus Body	1	FE
70-A2-4020		Electrical System - 12 Volt Testing	1	FE
70-A2-6020		12-Volt Wiring Protection - Split Loom	1	FE
70-A2-8020		EMI/RFI Protection	1	FE
		AUDIBLE WARNING DEVICES	**1**	**FE**
		INTERIOR COMPARTMENT LIGHTING	**1**	**FE**
70-E2-2220		***Light - 8" LED Compartment, On Scene Access 73008***	***4***	***FE***
		There shall be two-(2) lights installed in compartment L1 and compartment R1.		
70-E2-6620		***Light - 28" LED Compartment, On Scene Access 73028***	***10***	***FE***
		There shall be two-(2) lights installed in compartment L2, compartment L5, compartment R2, compartment R5 and compartment B1.		
70-E4-1820		***Light - 54" LED Compartment, On Scene Access 73054***	***12***	***FE***
		There shall be two-(2) lights installed in compartment L3, compartment L4, compartment L6, compartment R3, compartment R4 and compartment R6.		
70-H2-0220		> Switch - Compartment Door Ajar Indicator	1	FE
72-G8-6220		***Zone A Upper Light Bar - 72" LED, Whelen Freedom IV F4N7QLED w/8 Additional LEDs***	***1***	***FE***
72-M8-6020		***Zone B/D Upper Body Side Front Lights (2) - Red w/Clear Lens M9 LED, Whelen M9RC***	***1***	***FE***
72-P8-6220		***Zone B/D Upper Body Side Rear Lights (2) - Red w/Clear Lens M9 LED, Whelen M9RC***	***1***	***FE***
72-S6-4820		***Zone C Upper Outboard Lights (2) - Red w/Clear Lens M6 LED, Whelen M6RC***	***1***	***FE***
72-U6-1420		***Zone C Upper Middle Lights (2) - Red w/Clear Lens M6 LED, Whelen M6RC***	***1***	***FE***
74-C8-4220		***Zone B & D Lower Front (2) - Red w/Clear Lens 600 LED, Whelen 60R02FCR***	***1***	***FE***
		The lights shall be located, one-(1) each side, on the bumper extension ends.		
74-C8-4220		***Zone B & D Lower Front (2) - Red w/Clear Lens 600 LED, Whelen 60R02FCR***	***1***	***FE***
		The lights shall be located, one-(1) each side, in the cab wheel well area.		
74-D8-1220	***S***	***Zone B & D Lower Midship (6) - Red w/Clear Lens LINZ6 LED, Whelen LINZ6R***	***1***	***FE***
		There shall be a light located, one-(1) each side, below compartment L1 and R1 and two-(2) each side in the body wheel well area.		
74-G8-1020		***Zone B & D Lower Rear (2) - Red w/Clear Lens LINZ6 LED, Whelen LINZ6R***	***1***	***FE***
		There shall be a light located, one-(1) each side, below compartment L6 and R6.		

PART NO	S	DESCRIPTION	QTY	ID
74-H8-2020		***Zone C Lower Lights (2) - Red w/Clear Lens M6 LED, Whelen M6RC***	***1***	***FE***
74-J4-0620		***Stop/Turn/Reverse Lights - LED, Whelen M6***	***1***	***FE***
74-J4-2620		***Housing - Rear Tail Light Assembly, M6FCV4***	***1***	***FE***
74-J8-1420		***Light - LED Rear Directional, Whelen TAM63***	***1***	***FE***
74-J8-8220		***Rear Directional Light Mounting - Recessed Mounted***	***1***	***FE***
		12-VOLT APPARATUS LIGHTING / ACCESSORIES	**1**	**FE**
74-L0-2220		Lights - LED Clearance and Maker, Whelen OS	1	FE
74-L2-4020		Light - LED License, Whelen OSC0EDCR	1	FE
74-L2-4420		***Light - LED Perimeter Illumination, Whelen 3SC0CDCR***	***6***	***FE***
		There shall be three-(3) lights shall be located on the right rear of the apparatus to illuminate the access ladder, one-(1) each side front of hose bed and one-(1) located in the upper walkway landing area.		
74-P2-1620		***Lights (2) - M6 LED Scene, Whelen M6ZC***	***2***	***FE***
74-P4-0220		***Scene Light Locations - Side of Cab, Between the Front and Rear Doors***	***1***	***FE***
74-P4-0620		***Switches - Cab Scene Light Activation, Cab Mounted & Respective Cab Door***	***1***	***FE***
74-P4-8020		***Scene Light Locations - Upper Rear of Body, Outboard***	***1***	***FE***
74-P4-8420		***Switches - Upper Rear Scene Light Activation, Cab Mounted & Reverse Circuit***	***1***	***FE***
74-Q2-0420		***Brow Light Location - Front of Cab, Centered***	***1***	***FE***
74-Q4-0820		***Light - 12 Volt 168 Watt LED Brow, Whelen Pioneer Plus PFP2***	***1***	***FE***
74-Q8-8020		***Switch - Brow Light Activation, Cab Mounted***	***1***	***FE***
74-R2-1620		***Lights (2) - 12 Volt 150 Watt LED Semi Recessed, Whelen Pioneer Plus PFS2-PBA203***	***1***	***FE***
		== Paint - MVP Pumper - 1606.001 06/03/16 ==	***1***	***FE***
80-C2-0220		Paint - Body, Single Color	1	FE
80-C4-2020		***Body Paint Color/Code: Special***	***1***	***FE***
		The body color/code shall be Blue 869761 EW.		
80-D2-0620		***Paint - Interior Compartment, "F-Shield" Extruded Bodies***	***1***	***FE***
80-D2-2020		***Paint - Interior Compartment Hardware, Dark Gray "F-Shield"***	***1***	***FE***
80-E2-1820		***Stripe - Scotchlite, 1-6-1 Triple***	***1***	***FE***
80-E4-1420		***Striping Color: Special***	***1***	***FE***
		The main stripe shall be 3M 5000 white.		
80-E4-6220		***Pin Stripe/Secondary Stripe Color: Special***	***1***	***FE***
		The secondary stripes shall be silver to match H5985.		
80-E4-9920		***Striping Layout: Hockey Stick Design, Body Compartment Doors***	***1***	***FE***
80-E8-0220		Striping - Rear Body, Reflective Chevron	1	FE
80-E8-0620		Chevron Striping Colors: 3M Red & Lime Green	1	FE
80-G2-0220		Lettering - 3" Spun Gold w/Shade	1	FE
		== Warranty / Manuals - Pumpers Custom MVP - 1606.001 06/03/16 ==	***1***	***FE***
98-A2-0420		Warranty - Body Parts & Labor, 2-Year	1	FE
98-A2-1020		Warranty - Cab/Chassis Parts & Labor, 2-Year	1	FE
98-A4-0210		Warranty - Cab Structural, 10-Year/100,000 Miles	1	FE
98-A4-0420		Warranty - Body Structure, 10-Year/100,000 Miles	1	FE
98-A6-0210		Warranty - Cab Paint, 10-Year/100,000 Miles	1	FE
98-A6-0220		Warranty - Body Paint, 4-Year/100,000 Miles	1	FE

PART NO	S	DESCRIPTION	QTY	ID
98-A8-0220		Warranty - Frame Rails, Lifetime	1	FE
98-A8-0420		Warranty - Meritor Axle, 2-Year/Unlimited Miles	1	FE
98-A8-4220		Warranty - Cummins Engine, 5-Year/100,000 Miles	1	FE
98-A8-4420		Warranty - Allision Automatic Transmission, 5-Year/Unlimited Miles	1	FE
98-A8-4620		Warranty - Anti Lock Brake System, 3-Year/300,000 Miles	1	FE
98-A8-6020		Warranty - Hale Pumps	1	FE
98-A8-8020		Warranty - Plumbing System, 10-Year	1	FE
98-A8-8420		Warranty - Poly Water Tank, Lifetime	1	FE
98-B2-0220		Manuals (2) - Chassis Operation, Digital	1	FE
98-B2-1220		Manuals (2) - Engine/Transmission Operations	1	FE
98-B2-1820		Manuals - Apparatus Body & Components	1	FE
98-B2-2020		Manuals - Pump	1	FE
98-B2-2220		Safety Guide - FAMA	1	FE
98-B2-6020		Wiring Diagrams - Cab/Chassis, Standard	1	FE
98-B2-6620		Wiring Diagrams - Apparatus Body, Standard	1	FE
		== Loose Equipment Pkg. - Pumper MVP - 1606.001 06/03/16 ==	***1***	***FE***
90-C2-0420		Ladder - 10' Folding Attic, Alco-Lite FL-10	1	FE
90-C6-0420		Ladder - 14' Roof, Alco-Lite PRL-14	1	FE
90-D6-1020		Ladder - 24' 2-Section Extension, Alco-Lite PEL-24	1	FE
90-F2-0220		***Ladder - Multipurpose Folding Ladder, Little Giant***	***1***	***FE***
92-C4-2620		***Elbow - 3" FNST x 5" Storz 30 Degree, Kochek SKE53R***	***1***	***FE***
		The elbow shall be located on the 3" right side discharge.		
92-F4-0820		***Cap w/Chain - 5" Storz, Kochek CC507***	***1***	***FE***
		The cap shall be located on the 3" right side discharge elbow.		
94-G2-1820		***Light - w/Charging Base, Streamlight Fire Vulcan LED Orange 44451***	***4***	***FE***
96-C2-0220		***Wheel Chocks (2) - Folding, Ziamatic SAC-44-E w/Mounting Bracket***	***1***	***FE***
		The chocks shall be located below compartment L4.		
96-M6-2420		***Strap - Velcro w/Footman Loops, Ziamatic UMVS Series***	***2***	***FE***
96-S4-0220	***X***	***Rescue Tool Package - Cutter, Hurst eDRAULICS S 700E2***	***1***	
96-S4-0420	***X***	***Rescue Tool Package - Spreader, Hurst eDRAULICS SP 555E2***	***1***	
96-S4-0620	***X***	***Rescue Tool Package - Ram, Hurst eDRAULICS R 421E***	***1***	

City of Weslaco Fire Department

Cinder MVP Pumper

== Legals - Pumpers - 1606.001 06/03/16 ==

INTENT OF PROPOSAL SPECIFICATIONS

It is the intent of these PROPOSAL specifications to cover the furnishing and delivery, to the City of Weslaco Fire Department a complete pumper apparatus equipped as hereinafter specified.

These proposal specifications exceed the minimum requirements of the Fire Department and are intended to provide details of construction and materials, and where not otherwise specified are left to the discretion of Ferrara Fire Apparatus, Inc.

Ferrara Fire Apparatus, Inc. shall be solely responsible for the design and construction of all non-specified features. The apparatus shall conform to the current edition of the National Fire Protection Associations Pamphlet.

Ferrara Fire Apparatus, Inc. as an established manufacturer with a certainty of being capable of furnishing parts, service and technical assistance for the next TWENTY (20) Years.

Ferrara Fire Apparatus, Inc. is furnishing, satisfactory evidence of its ability to construct the specified apparatus and certifies that the location of the factory where the apparatus is to be built is at 27855 James Chapel Road, Holden, LA 70744.

This bid is accompanied by a set of manufacturer's specifications consisting of a detailed description of the apparatus and equipment proposed and to which the apparatus furnished under contract must conform.

QUALITY AND WORKMANSHIP

The design of the apparatus proposed shall embody the modular design and construction technique as outlined.

The workmanship is of the highest quality in its respective field. Special consideration has been given to the following points: accessibility of the various components, which require periodic maintenance operations for ease of operation, including both pumping and driving operations and symmetrical proportioning of the overall apparatus.

Construction utilized shall be rugged and safety factors have been provided to carry loads as specified and to meet the road requirements and speed conditions as set forth under "Performance Tests and Requirements".

Welding shall not be employed in the assembly of the apparatus in a manner that shall prevent the removal of major component parts for service and/or repair. This includes the following but is not limited to compartment doors, hinges, fender liners, running boards, hosebeds, and pump panels, etc.

VEHICLE STABILITY

The height of the fully loaded vehicle center of the gravity shall not exceed the chassis manufacturer maximum.

The front to rear weight distribution of the fully loaded vehicle shall be within the limits set by the chassis manufacturer. The front axle loads shall not be less than the minimum axle loads specified by the chassis manufacturer, under full load and all other loading conditions.

Difference in weight on the end of each axle, from side to side, when the vehicle is fully loaded and equipped shall not exceed 7%.

PERFORMANCE TEST AND REQUIREMENTS

The apparatus will meet the performance requirements at elevations of 2000 feet (610m) above sea level.

The apparatus will meet the performance requirements while stationary on any grade of up to and including 6% in any direction.

From a standing start, the vehicle will attain a true speed of 35 mph (56 km/h), within 25 seconds on a level road.

The apparatus will obtain a minimum top speed of 50 mph (80 km/h) on a level road.

The apparatus will be able to maintain a speed of at least 20 mph (32 km/h), on any grade up to and including 6%.

The apparatus will be tested and approved by Underwriters Laboratories Incorporated in accordance with the standard practices for pumping engines.

ROAD TEST

Each manufacturer will conduct road test to verify that the complete apparatus is capable of compliance:

The test will be conducted on a dry, level, paved road that is in good condition. The engine will not operate in excess of the maximum no load governed speed.

Acceleration test will consist of two runs in opposite direction over the same route.

The vehicle will attain a true speed of 35 mph (56 km/h) from a standing start within 25 seconds.

The vehicle will attain a minimum top speed of not less than 50 mph (80 km/h).

If the apparatus is equipped with an auxiliary braking system, the apparatus manufacturers will road test the system to confirm that the system is functioning as intended by the auxiliary braking system manufacturer.

The service brakes will bring the fully laden apparatus to a complete stop from an initial speed of 20 mph (32 km/h) in a distance not exceeding 35 feet (10.7M) by actual measurement, on a substantially hard, level surface road that is free of loose material, oil, or grease.

FAILURE TO MEET TESTS

In the event the apparatus fails to meet the test requirements of these specifications on the first trials, second trials may are made at the option of the Ferrara Fire Apparatus, Inc. within thirty-(30) days of the date of the first trials.

Such trials shall be final and conclusive and failure to comply with changes, as the purchaser may consider necessary to conform to any clause of the specifications within thirty-(30) days after notice is given to Ferrara Fire Apparatus, Inc. of such changes shall also because of rejection of the apparatus.

Permission to keep or store the apparatus in any building owned or occupied by the purchaser or its use by the Fire Department during the above-specified period with the permission of the Ferrara Fire Apparatus, Inc. shall not constitute acceptance.

PRODUCT LIABILITY INSURANCE

Due to the high cost of replacement of said Fire Apparatus and to protect the customer of his full rights, Ferrara Fire Apparatus, Inc. carries garage liability insurance equal to or in excess of $26,000,000.00.

INFORMATION SUPPLIED AT TIME OF DELIVERY

Information required at time of delivery to be supplied by Ferrara Fire Apparatus, Inc. shall include:

(1) The manufacturer's record of apparatus construction details, including the following information:

(a) Owner's name and address
(b) Apparatus manufacturer, model, and serial number
(c) Chassis make, model, and serial number
(d) GVWR of front and rear axles
(e) Front tire size and total rated capacity in pounds (kilograms)
(f) Rear tire size and total rated capacity in pounds (kilograms)
(g) Chassis weight distribution in pounds (kilograms) with water and manufacturer-mounted equipment (front and rear)
(h) Engine make, model, and serial number, rated horsepower, related speed and governed speed
(i) Type of fuel and fuel tank capacity
(j) Electrical system voltage and alternator output in amps
(k) Battery make, model, and capacity in cold cranking amps (CCA)
(l) Chassis transmission make, model, and serial number; and if so equipped, chassis transmission PTO(s) make, model, and gear ratio
(m) Pump make, model, rated capacity in gallons per minute (liters per minute where applicable), and serial number
(n) Pump transmission make, model, serial number, and gear ratio
(o) Auxiliary pump make, model, rated capacity in gallons per minute (liters per minute where applicable), and serial number
(p) Water tank certified capacity in gallons or liters
(q) Foam tank (if provided) certified capacity in gallons or liters
(r) Paint manufacturer and paint number(s)
(s) Company name and signature of responsible company representative

(2) Certification of slip resistance of all stepping, standing, and walking surfaces

(3) If the apparatus has a fire pump or an industrial supply pump, the pump manufacturer's certification of suction capability

(4) If the apparatus has a fire pump or an industrial supply pump, a copy of the apparatus manufacturer's approval for stationary pumping applications

(5) If the apparatus has a fire pump or an industrial supply pump, the engine manufacturer's certified brake horsepower curve for the engine furnished, showing the maximum governed speed

(6) If the apparatus has a fire pump or an industrial supply pump, the pump manufacturer's certification of the hydrostatic test

(7) If the apparatus has a fire pump or an industrial supply pump, the certification of inspection and test for the fire pump or the industrial supply pump

(8) If the apparatus has a fixed line voltage power source, the certification of the test for the fixed power source

(9) If the apparatus is equipped with an air system, test results of due air quality, the SCBA fill station, and the air system installation

(10) Weight documents from a certified scale showing actual loading on the front axle, rear axle(s), and overall fire apparatus (with the water tank full but without personnel, equipment, and hose)

(11) Written load analysis and results of the electrical system performance tests required in Chapter 13

(12) When the apparatus is equipped with a water tank, the certification of water tank capacity

The Fire Apparatus Manufacture will also provide documentation of the following items for the entire apparatus and each major operating system or major component of the apparatus:

(1) Manufacturer's name and address

(2) Country of manufacture

(3) Source for service and technical information

(4) Parts replacement information

(5) Descriptions, specifications, and ratings of the chassis, pump (if applicable), and aerial device

(6) Wiring diagrams for low voltage and line voltage systems to include the following information:

- (a) Pictorial representations of circuit logic for all electrical components and wiring
- (b) Circuit identification
- (c) Connector pin identification
- (d) Zone location of electrical components
- (e) Safety interlocks
- (f) Alternator-battery power distribution circuits
- (g) Input/output assignment sheets or equivalent circuit logic implemented in multiplexing systems

(7) Lubrication charts

(8) Operating instructions for the chassis, any major components such as a pump or aerial device, and any auxiliary systems

(9) Precautions related to multiple configurations of aerial devices, if applicable

(10) Instructions regarding the frequency and procedure for recommended maintenance

(11) Overall apparatus operating instructions

(12) Safety considerations

(13) Limitations of use

(14) Inspection procedures

(15) Recommended service procedures

(16) Troubleshooting guide

(17) Apparatus body, chassis, and other component manufacturer's warranties

(18) Special data required by this standard

(19) Copies of required manufacturer test data or reports, manufacturer certifications, and independent third-party certifications of test results

(20) A material safety data sheet (MSDS) for any fluid that is specified for use on the apparatus

(21) One-(1) copy of the latest edition of FAMA's Fire Apparatus Safety Guide

The Fire Apparatus Manufacture shall deliver with the apparatus all manufacturers' operations and service documents supplied with components and equipment that are installed or supplied.

LIABILITY

Ferrara Fire Apparatus, Inc. if deemed the successful bidder shall defend any and all suits assume all liability for the use of any patented process, advice or article forming a part of the apparatus or any appliance furnished under contract.

APPARATUS PURCHASE

The specified apparatus will be purchased off the Buy Board contract.

PAYMENT TERMS

Full payment shall be made upon delivery and acceptance of the apparatus. The vehicle(s) shall not be released to the BUYER until payment is made. If the selling price is subject to any taxes, the taxes added will be that which are prevailing at the time of delivery.

Payment shall be made directly to HALL MOTORS, INC. Payment shall be made in United States Currency. No checks or any other form of payment shall be made to any sales representatives, dealer, agents, etc.

If these payment terms are not strictly adhered to, Hall Motors, Inc. shall assess a daily interest charge based on an annual percentage rate of 18% on the unpaid balance. If more than one vehicle is covered by this contract and the vehicles are shipped on different dates, the terms stated above shall apply to each vehicle.

SINGLE SOURCE MANUFACTURER

To provide the customer with a single point of contact for service, warranty, and parts, proposals shall only be accepted from manufacturers who assemble the complete apparatus in their own facility.

VIRTUAL MANUFACTURING

The manufacturer shall have a web site available for the customers to 'watch' their unit being produced. The "Trucks in Production" shall be updated a minimum of three-(3) times per week.

The web site shall also include documentation of cab and body crash tests, take a virtual tour of the production facility, videos of both current and new innovative products, updates on trade shows, photos of new deliveries and the opportunity to include customer 'Action Photo's'.

Customer shall be able to access the web site without the requirement of a password.

PRINCIPAL DIMENSIONS

The apparatus shall have the following dimensions:

Overall Length: 35' 1-1/2"
Overall Height: 10' 8-1/4"
Wheelbase: 208"

CERTIFIED WELDERS

The manufacturer shall employ individuals that are certified aluminum and stainless steel welders. The welders shall be certified by an outside testing laboratory. The certifications shall be available for viewing through the Human Resources office upon request.

BODY WEIGHT DOCUMENTATION

The manufacturer shall weigh each body prior to mounting on the chassis. The information shall be included in the documentation of the finished vehicle. Each body produced by the manufacturer shall be weighed, not just one body per model.

DRAWING, APPROVAL

Prior to construction, the successful bidder shall provide three-(3) approval drawings of the apparatus for the fire department's review. The drawings shall show such items as the chassis being utilized, lights, horns, sirens, pump panels, and all compartment locations and dimensions. The blueprint shall be a visual interpretation of the unit as it is to be

constructed. The buying authority shall sign all drawings. One-(1) print shall be retained by the Fire Department, the dealer/sales representative shall retain one-(1) print, and one-(1) print shall be returned to the manufacturer.

PRE-CONSTRUCTION CONFERENCE

A pre-construction conference will be held at the factory prior to the actual construction of the vehicle(s). The conference will be held in the manufactures facility with Three (3) representatives of the Fire Department and appropriate representatives of the manufacture.

Lodging and meals will be the responsibility of the manufacture.

Transportation will be the responsibility of Fire Department.

INSPECTION TRIP, FINAL

There will be a final inspection for Three (3) representatives of the buying authority at the facility where the apparatus is being constructed. The inspection trip will be completed when the apparatus is complete. Factory and Sales representatives will be available at the time of inspection.

The final inspection will include as a minimum:

-Full access to the build file and factory personnel to provide answers for any issues found.
-Unit will be placed on a lift that will allow full inspection of the undercarriage.
-Road test shall be accommodated.
-Unit will be taken to pump test area where the pump and plumbing can be inspected while flowing water.
-General apparatus orientation and operation shall be provided at the pump test pit.

Lodging and meals will be the responsibility of the manufacturer.

Transportation will be the responsibility of Fire Department.

TRANSPORTATION

To insure proper break-in of all components while still under warranty, the apparatus shall be delivered over the road under its own power (Rail and/or truck freight shall not be acceptable).

DELIVERY TIME

The apparatus shall be delivered within One Hundred Eighty (180) calendar days after receipt of the approved signed off pre construction changes.

The manufacturer shall not be held liable for changes arising from its failure to make or delay in making delivery because of fire, flood, strike, riot, chassis shortage, accidents, acts of God, or any circumstances beyond our control.

VEHICLE FAMILIARIZATION & DEMONSTRATION

Familiarization and demonstration of the vehicle shall be by a competent and qualified person as defined in the current standard of NFPA 1901 standard.

Familiarization of the vehicle shall include the following:

How to locate gauges or indicators and check all fluid levels and operational issues of the vehicle

How to tilt the chassis cab or hood assembly for access to the engine, fire pump, or aerial control, or any other device to allow access to fluids or for required maintenance

Interior cab controls, instruments, mirrors, safety devices or alarms, brake operations, transmission control, pump controls, exhaust regeneration (if provided), seat adjustments, warning light engagement, and other operational equipment

If the apparatus is provided with a fire pump system, the following minimum instructions:

a) Setting of parking brake, proper transmission gear, and fire pump engagement operations
b) Throttle control
c) Primer and tank-to-pump operation
d) Use of pressure control devices
e) Tank refilling operations
f) Proper operation of discharge controls
g) Proper shutdown and draining of system

If the apparatus is provided with a generator, the following minimum instructions

a) Proper engagement if driven by the chassis
b) Startup, operation, and shutdown of generator
c) Monitoring of controls and instruments

If the apparatus is provided with a foam system, the following minimum instructions:

a) Startup, operation, and shutdown of foam system
b) Setting of foam percentages and other operational settings
c) Proper flushing and draining of the system

If the apparatus is provided with a water tower or aerial device, the following minimum instructions:

a) Positioning and locating the vehicle for safe operations
b) Chassis parking brakes and engagement of hydraulic system
c) Deployment of stabilization devices and use of ground pads
d) Operation of elevation, extension, and rotation of the aerial device
e) Operation of waterway, nozzle, and other firefighting devices of aerial device
f) Operation and use of breathing air system (if provided)
g) Specific aerial device maintenance and service areas for operators
h) Shutdown and return to service operations
i) Operation of tip controls and platform controls
j) General familiarization and demonstration of aerial device
k) Review of all safety devices, interlocks, and operational Hazards

MANUFACTURER SERVICE CONTACTS

The manufacturer must have a 24 hour/ 7 day a week, toll-free emergency hot line. The manufacturer must be capable of providing both in-house and on-site service for the apparatus. The service technicians shall be EVT certified in compliance with NFPA 1071 classifications F2 through F6. On-site service and maintenance shall be the primary function, to eliminate the vehicle having to leave the fire department jurisdiction. Copies of the certifications shall be made available through the Human Resources office.

SERVICE VEHICLES

The manufacturer shall have a minimum of 10 full time, company owned, service vehicles. The vehicles shall be available 24 hours a day, seven days a week to respond to customer needs. The Service Vehicles shall be operated by full time EVT Certified Technicians.

REPLACEMENT PARTS

Replacement parts shall be available directly from the manufacturer, as well as the dealer and or service centers.

CUSTOM CHASSIS

It is the intent of the technical specifications contained herein to ensure the custom cab and chassis specified shall be engineered, designed, and manufactured exclusively for heavy-duty continuous use in extreme environments and rigorous adverse conditions.

Each custom cab and chassis shall be manufactured in strict compliance with all applicable requirements as set forth in the current edition of the NFPA (National Fire Protection Association) pamphlet 1901 with maximum safety as the key focus throughout the design and development phase of each fire and rescue chassis.

CHASSIS WHEELBASE

The chassis wheelbase shall be 208" inches.

CHASSIS FRAME RAILS

The chassis frame rails shall be constructed of 110,000-PSI minimum yield steel that has been formed into a "C" channel shape with dimension of 10.50" x 3.50" x .375 inches.

An inner frame liner of 110,000 Pound minimum yield with dimension of 9.69" x 3.13" x .313" shall be provided for additional strength and to reduce deflection. The frame liner shall run from centerline of front axle to rear of the mainframe rail. This liner shall be mitered at 45 degrees at the front axle.

The resulting frame system shall have a minimum section modulus of 30.38 cubic inches with a resisting bending moment of 3,342,000-inch pounds per rail.

The frame rails shall be powder coated in order to insure superior paint adhesion. Frame cutouts for the engine shall be made with a plasma torch in order to minimize the heat-affected zone caused by the cut.

All frame-mounted components shall be secured with grade eight bolts with hardened washers and distorted thread locknuts. Flanged head bolts with nylon locking nuts, or huck bolts shall not be acceptable.

PAINT, FRAME RAIL

The frame and running gear shall be painted gloss enamel black. The running gear shall consist of the axles, drivelines, air tanks, steering gear, frame mounted brackets, drag link, and fuel tank.

The air system piping and electrical harnesses shall not be installed until after the paint has cured. This shall insure complete coverage behind those items as well as that air piping and wiring harnesses are not.

FRONT BUMPER EXTENSION

There shall be a twenty-four inch (24") frame extension provided. The extension shall be made from heavy-duty steel in both C-channel and tubular shapes. The frame rail extension material shall measure 7" high x 3-1/2" wide x .375" wall thickness.

Extension shall be bolted to the chassis frame rails through reinforcement plates, backed by the engine mounting crossmember. Fasteners utilized shall be Grade 8 bolts.

FRONT AXLE

The front axle shall be a Meritor MFS-20 with 22,500-pound capacity equipped with oil seals and transparent cover for oil level inspection.

STEERING SYSTEM

The steering system shall be a package certified by TRW for the application. All components after the steering column to the drag link shall be manufactured by TRW.

The steering system shall use a TAS-65 steering gear with an RCS-55 slave gear, which has the capacity to static steer the chassis loaded to 22,500 pounds with 425-size tires. The use of two-(2) equal size gears or a single gear with an assist cylinder shall not be acceptable.

CHASSIS ALIGNMENT

The chassis frame rails shall be measured to insure the length is correct and cross checked to make sure they run parallel and are square to each other. The front and rear axles shall be laser aligned. The front tires and wheels shall be aligned and toe-in set on the front tires by the chassis manufacturer. Cramp angle is set to achieve the greatest turning radius possible with the selected components of the vehicle. Each front wheel is set to zero degrees. The wheel is then turned until it reaches the steering stops. This measurement is the cramp angle.

FRONT SUSPENSION

The front suspension shall be parabolic (taper leaf) spring type, with four-(4) leaves 22,500 pounds capacity. The leaves shall be a minimum of 4” wide x 54” long (flat), with grease fittings for lubrication installed in the spring pins. Axle stops with energy absorbing jounce bumpers shall be supplied on the spring top pad. Double acting Koni shock absorbers shall be provided on the front suspension.

FRONT BRAKES

The front axle shall be equipped with EX-225 air operated disc brakes and ventilated rotors.

CRAMP ANGLE

The cramp angle of the front axle shall be 41 degrees.

FRONT TIRES

The front tires shall be Goodyear 425/65-R22.5 Load Range "L" G-296 MSA all-weather treads.

The Intermittent Fire Service load capacity shall be 22,500 pound with a speed rating of 75 miles per hour when properly inflated to 120 pounds per square inch with steel or aluminum wheels.

The Fire Service rating is defined as no more that 50 miles of continuous operation at maximum load or without stopping for at least 20 minutes. The Emergency vehicle must reduce its speed to no more than 50 MPH after the first 50 miles of travel.

FRONT WHEELS

The front axle wheels shall be Alcoa Polished Aluminum for 425 tires with a rating of 23,000-pounds.

FRONT WHEEL TRIM

The front axle wheels shall be trimmed with stainless steel hub and lug nut covers. The axle’s hub covers shall be equipped with holes for oil level viewing.

MUD FLAPS, FRONT

The front axle mud flaps shall be constructed from hard black rubber and installed behind the front axle.

REAR AXLE

The rear axle shall be a double reduction heavty duty Dana S35-190 with a 35,000-pound service rating. The axles shall be equipped with oil seals.

REAR SUSPENSION

The rear axle suspension shall be rated up to 35,000 pounds capacity. The main spring pack shall have thirteen-(13) leaves with a four-(4) leaf auxiliary pack. The suspension shall be a torque leaf, variable rate, self-leveling slipper type.

REAR AXLE DIFFERENTIAL

The Meritor RS series rear axle shall have a standard differential.

VEHICLE TOP SPEED

The rear axle shall be geared for a top speed of 60-62 MPH at governed engine speed.

REAR BRAKES

The rear axle shall be equipped with 16-1/2" x 7" S-Cam air operated brakes with automatic slack adjusters.

REAR TIRES

The rear tires shall be Goodyear 315/80R22.5 Load Range "L" G670RV highway treads.

The load capacity shall be 35,000 pound with a speed rating of 75 miles per hour when properly inflated to 130 pounds per square inch with steel or aluminum wheels.

REAR WHEELS

The rear wheels shall be Alcoa Polished aluminum, 9.00" X 22.5"10-bolt, hub-piloted type. The outside wheels shall be polished on the outer surface. The ground rating shall be a minimum of 33,000 pounds.

TIRE PRESSURE MONITORING SYSTEM

Each tire installed on the apparatus shall be equipped with a tire pressure monitoring device. The device shall consist of a valve stem cap to with an LED tire alert to indicate tire pressure conditions. The LED shall flash when the tire drops 8 psi below the factory setting.

REAR WHEEL TRIM

The rear axle wheels shall be trimmed with stainless steel "Lincoln Hat" hub and lug nut covers.

HOSE AND HARNESS ROUTING

Battery cables, hydraulic hoses and air lines shall be routed through the vertical face of the chassis frame rails using bulkhead connectors. The use of grommets through frame rails, as well as running hoses or cables under, over or ahead of the chassis frame rails to achieve positive connections shall not be acceptable.

For ease of maintenance, the wiring harnesses, hydraulic hoses and air hoses shall be divided down each frame rail. The hydraulic and air hoses shall be run, primarily, down the inside of the right side frame rail, while the electrical harnesses shall be run, primarily, down the left side frame rail. Harnesses and hoses shall be mounted using rubber coated, stainless steel holders and, where necessary, heat resistant zip loom.

AIR BRAKE SYSTEM

The air brake system shall meet the requirements of FMVSS-121. The system shall consist of three-(3) reservoirs with a total capacity of 5100 cubic inches. The system shall be of dual circuit and quick build up design powered by an engine mounted gear driven air compressor. The system shall be protected by a heated air dryer with heated automatic moisture ejector on the wet tank and quarter turn brass drain valves on the other tanks.

The entire chassis air system shall be plumbed utilizing reinforced nylon air lines. All of the airlines shall be color coded to correspond with an air system schematic and shall be adequately protected from heat and chafing.

The system shall be plumbed using color-coded nylon airlines with brass push-lock fittings.

ANTI-LOCK BRAKES W/ATC & ELECTRONIC STABILITY CONTROL

The apparatus shall have a Wabco ABS-based Electronic Stability Control (ESC), which offers another level of vehicle control. This automatic braking management system reduces the possibility of a side rollover and assists in the directional stability of apparatus. Upon reaching critical lateral acceleration thresholds, the system intervenes to regulate the vehicles deceleration and braking functions. Reducing the engine’s RPM by overriding the foot throttle input and applying the engine retarder (if equipped) to slow the apparatus giving the driver added control and maneuverability. The ESC shall also apply braking power to selective wheel of the front and rear axles to assist in stabilizing the apparatus to its intended direction. This selective braking application and reduction of speed and torque reduces the possibility of spinouts and side rollovers even in adverse conditions.

The system includes a Wabco 4-channel Anti-Lock Braking System shall be installed which includes four-(4) wheel sensors and four-(4) modulators to control and compensate braking force at each wheel. This system shall monitor all wheel ends regardless of suspension type, and which axle it sees braking forces first.

An ABS warning light shall be installed on the driver's dash that remains illuminated until the vehicle is moving at least four-(4) miles per hour. An ABS test switch shall be installed in the "Diagnostic Information Panel" that when pressed, sends the system into diagnostic mode causing the ABS light to blink (I/O) indicating a flash code. A listing of flash code definitions is listed in the Wabco Owner's Manual.

Automatic Traction Control (ATC) shall be installed to sense wheel slip, apply air pressure to brakes, and reduce engine torque to provide improved traction. An ATC indicator light shall illuminate when the system is active.

A mud and snow switch shall be provided. When the switch is in the "ON" position, it shall allow momentary wheel slip to obtain traction under extreme mud and snow conditions.

The system also includes a Steering Angle Sensor (SAS), which informs the system of the degree in which the steering is turned to one side or the other. Along with the SAS, an ESC module is mounted mid frame at the rear of the chassis cab to detect roll, pitch, and yaw angles and computes which wheel(s) brake(s) shall be acted upon.

AUTOMATIC MOISTURE EJECTORS

All air reservoirs of the chassis air system shall be supplied with automatic moisture ejectors. The reservoir drain valves shall allow the accumulation of contaminants that are collected in the reservoirs to be drained off to the atmosphere.

AIR DRYER

The air system shall include a Bendix AD-9 air dryer with integral 12-volt heated moisture ejector. The air dryer shall have a desiccant cartridge and incorporate an integral turbo cutoff valve. The turbo cutoff allows the air dryer to purge water and contaminants without any loss of turbo boost or engine horsepower.

ENGINE

The vehicle shall be equipped with a Cummins ISL 450 turbocharged diesel engine. Standard features include an electronic governor, electronically controlled unit injectors, Farr air cleaner, a 12-volt starter Delco 39 MT, and an 18.7 CFM compressor. The oil filter shall be a full flow and bypass design.

This engine conforms to the US 2016 EPA regulations for heavy-duty diesel engines.

ENGINE SPECIFICATIONS

- Model: ISL
- Number of Cylinders: Six (6)
- Bore and Stroke: 4.49" X 5.69"
- Displacement: of 8.9 L
- Rated Horsepower: 450 @ 2100 RPM
- Peak Torque: 1250 @ 1400 RPM
- Governed Speed: 2200 RPM

ENGINE COMPRESSION BRAKE

The engine shall come equipped with a Jacobs “C-Brake” compression brake controlled by two-(2) switches located in the cab, an on/off and low/medium/high. The compression brake shall interface with the anti-lock brake controller to prevent engine brake operation during adverse braking conditions.

A pump shift, interlock circuit shall be provided to prevent the engine brake from activating during pumping operation.

ENGINE COOLING SYSTEM

The engine cooling system shall have the capacity to cool the engine according to the engine manufacture’s requirements.

RADIATOR

The engine radiator shall be of a bolted design and have a minimum core area of 1400 square inches. The top and bottom tanks shall be stamped 16-gauge steel. The tanks shall be attached to the header assemblies with a minimum of fifty-(50), 5/16" bolts. The spacing between fasteners shall not exceed 2.00 inches in order to minimize the possibility of leaks.

The header plates shall be made of 16-gauge brass while the tubes shall be .0068-inch thick brass and .076 by .625 inches in size. The tubes shall have a smooth bore with welded seems which allows for cleaning of the radiator.

The radiator shall contain three rows of tubes with a minimum of 87 tubes per row for a total of not less than 261 tubes. The tubes shall be arranged in an inline profile across the core. Louvered serpentine fins constructed of copper with a density not greater than 16 fins per inch shall be used in the construction of the radiator.

The radiator tubes shall be attached to the header plates with a dual bonding process. The coolant side connection shall be welded, while the air side shall be soldered.

The top tank shall include an integral de-aeration tank, which removes air from the engine water. A low coolant warning shall be incorporated to alert the driver.

The bottom tank of the radiator shall incorporate an oil to water plate-type cooler for the transmission. The cooler is designed to cause a turbulent flow of the transmission oil through the core to force heat transfer. The cooler shall be sufficient to cool Allison Transmission without output retarders.

A high efficiency fan shall be direct driven by the engine and surrounded by a fan shroud. The sweep of the fan shall not exceed the width of the radiator core.

CHARGE AIR COOLER

The charge air cooler shall be constructed of aluminum with cast, aluminum side tanks. The cooler shall have a frontal core area of not less than 888 square inches.

The exterior fins shall be louvered serpentine design constructed of .006-inch thick aluminum and have a density no greater than seven-(7) fins per inch. The internal fins shall be designed to create air turbulence in order to increase heat transfer efficiency.

The charge air cooler shall be mounted directly ahead of the radiator and to the radiator headers. Rubber isolators shall be used at the mounting points to reduce transmission of vibrations.

The piping between the charge air cooler and engine shall use four-(4) ply silicone woven Nomex hoses with stainless steel bands. The bands are used to maintain the shape of the hose during changing turbo boost pressures. The hoses shall be attached with stainless steel constant tension hose clamps.

COOLING SYSTEM FAN

The engine cooling system shall incorporate a thermostatically controlled fan clutch. When the fan clutch is disengaged, the vehicle shall have improved vehicle performance, cab heating in cold climates, and fuel economy, while eliminating the potential dangers associated with a fan going from non-rotating to rotating as found with other style fan clutches.

The fan shall automatically lock-up when the vehicle is placed in pumping mode.

A shroud and recirculation shields system shall be used to ensure that once air has passed through the radiator, the same air is not drawn through again.

RADIATOR COOLANT, LONG LIFE

The coolant system shall contain a mixture to keep the coolant from freezing to a temperature of -34 degrees F.

The coolant supplied shall be Long Life Coolant compatible with the engine manufacturer's requirement.

COOLANT HOSES

The entire chassis cooling system shall have premium rubber hoses.

COOLANT HOSE CLAMPS

Gates PowerGrip clamps shall be provided for all coolant and heater hoses. The maintenance-free clamps retain dynamic tension and never need retightening. These clamps stop leaks, even on out-of-round applications. The clamps are made from a heat sensitive thermoplastic with memory to prevent over or under tightening. The clamps shall have a temperature range of -40 degrees F to -302 degrees F.

AUXILIARY ENGINE COOLER

The cooling system shall have a tube and bundle engine cooler mounted in the upper radiator water pipe. Water from the fire pump shall be circulated through 1/2" tubing to the cooler. A valve located on the pump panel shall control the cooling circuit.

ALTERNATOR

The alternator shall be a Delco Remy model 55SI 430 amp. The alternator shall be engine driven via a poly-groove power belt with an automatic tensioner. The alternator shall be a brushless design. The alternator shall meet all current applicable NFPA 1901 Edition requirements for performance.

BATTERY SYSTEM

The battery system shall be a single system consisting of six-(6) Group 31, 12-volt DC, heavy-duty, high cycle automotive batteries. The battery bank shall have a minimum group rating of 3750 cold cranking amperes (CCA) and a reserve of 1,080 minutes at 80 degrees Fahrenheit.

All battery wiring shall be welded battery cable capable of handling 125% of the actual load. It shall be run through a heat resistant flexible nylon "HTZL" loom rated at a minimum of 300 degrees Fahrenheit. All cable connections shall be machine crimped and soldered.

BATTERY BOXES

The chassis batteries shall be mounted in welded and bolted stainless steel battery box. The battery hold-downs shall be made of structural, stainless steel angle. Painted carbon steel battery boxes shall not be acceptable.

SWITCH, MASTER BATTERY DISCONNECT

The chassis batteries shall be wired in parallel to a single 12-volt electrical system, controlled through a heavy-duty, Guest brand rotary type, master disconnect switch. The master disconnect switch shall be located within easy access of the driver upon entering or exiting the cab. All electrical circuits shall be disconnected when the switch is in the "OFF" position.

TOTAL SYSTEM LOAD MANAGER W/HIGH IDLE

The apparatus shall be equipped with a Class 1 Total System Manager (TSM) for performing electrical load management. The TSM shall have two-(2) modes of operation, a "Calling Right of Way" and a "Blocking Right of Way". The "Blocking Right of Way" mode is activated only when the park brake is set. Load shedding shall "only" occur when the apparatus is in the "Blocking Right of Way" mode or when the battery voltage level reaches your programmed shed level.

Outputs 1-12 shall be independently programmable to sequence on with the ignition or master warning switch. Outputs 1-12 shall also be programmable to be activated during the "Calling Right of Way" mode and or the "Blocking Right of Way" mode. Output 13 is user configurable output and is programmable for activating between 10.5 and 15 volts. Output 14 shall provide a low voltage warning for an isolated battery. Output 15 shall be designated to activate a fast idle system. Output 16 shall provide a low voltage alarm that activates at the NFPA required 11.8 volts.

The Total System Manager shall have an internal digital display to indicate systems voltage is in normal operation mode and indicates the output configuration during programmable mode.

The Total System Manager shall be protected against reverse polarity and shorted outputs, and be enclosed in a metal enclosure to enhance EMR/RFI protection.

AIR COMPRESSOR/BATTERY CHARGER

A Kussmaul Pump Plus 1200 air compressor and battery charger package Model 091-9-12V-1200 shall be installed. The Auto Pump 12 volt driven air compressor shall ensure that the air brake system is properly pressurized for immediate response of the unit. A pressure switch shall regulate operation and shall automatically sense low air pressure in the brake system and restore the proper pressure. The unit shall have no interference with the vehicle mounted air compressor. The compact compressor shall have sealed bearings and a 15 amp circuit breaker installed in pressure switch assembly. The air compressor power mode selector switch shall select: 1) DC power full time from vehicle battery 2)

AC powered only from the battery when vehicle is plugged into shore power and automatically shuts off air compressor when disconnected from shore power.

The air compressor shall have the following ratings:
1) 100 PSI maximum rating
2) Pre-set at 75 PSI "ON" and 95 PSI "OFF"
3) Adjustable differential range of 20 PSI to 100 PSI
4) Output:
   0.30 SCFM @ 80 PSI
   0.35 SCFM @ 60 PSI
5) Rating: 12 volt at 11 amps

The battery charger shall be a Pump Plus 1200 Series 40 amp high output battery charger shall be installed.

The charger shall have the following operational specifications:
a) 120 volts AC input at 10 amps
b) 12 volts DC output at 40 amps

The battery charger shall supply a 'single battery bank' with automatic operation and with an aluminum enclosure. The system shall have a built-in sense circuit to check battery voltage 120 times a second; the system shall compensate for voltage drop in charging wires and provide quick recharging with no over-charging. The unit shall include front panel connections for a remote display and auxiliary loads.

SUPER AUTO-EJECT(S), 20 AMP

There shall be provided one (1) super auto-eject type receptacle(s) model 091-55-20. A solenoid wired to the vehicle starter is energized when the engine is started. This instantaneously drives the plug from the receptacle. The receptacle shall be provided with a weatherproof cover. The cover shall be spring loaded to close, preventing water from entering when the shoreline is not connected. The super auto eject receptacle shall be mounted in a location specified by the department and is designed to accept a 120V AC from a shoreline plug.

The UL maximum allowable amperage draw on receptacles is generally 80% of their listed rating, for example, the 20-amp receptacle should not carry more than 16-amp continuous load. When adding the different amperage draws of the components being installed on the chassis, be sure to figure in whether the components shall draw a continuous load or intermittent load.

Location: Driver's side cab wheel well area

The Auto Eject cover(s) shall be a Kussmaul 091-55YW, yellow in color.

DISPLAY, BAR GRAPH

The charger shall include a model 091-199-001 remote digital display.

Location: Driver's seat riser

SHORE POWER INLET PLATE

A shore-power "Inlet Plate" shall be permanently affixed at or near the power inlet.

The plate shall indicate the following:

- Type of Line Voltage
- Current Rating in Amps
- Power Inlet Type (DC or AC)

TRANSMISSION

The chassis shall be equipped with an Allison 3000 EVS automatic transmission. It shall have 4th gear operating controls and programmed for Fire Apparatus vocation. An electronic oil level indicator shall be provided as well as a diagnostic reader port connection. The transmission shall be geared to provide one-to-one ratio in fourth gear for fire pump applications. This dedicated "lockup" circuit is provided for pump operation. The transmission fifth gear shall be an overdrive ratio, permitting the vehicle to reach its top speed at the governed engine speed.

The transmission shall be equipped with an automatic neutral feature. Applying the parking brake shall command the transmission to neutral, regardless of drive range requested on the shift selector which shall require re-selecting the drive range to shift out of neutral.

The transmission shall be equipped with dual PTO ports with engine speed capabilities. The transmission shall be cooled by the radiator-mounted heat exchanger. The transmission fluid shall meet Allison specification TES-295.

TRANSMISSION SHIFTER, PUSH BUTTON

The transmission shall be controlled by an Allison push button shifter internally illuminated for night operation. The shifter shall be mounted on the dash to the right of the steering column. The transmission shall be capable of five-(5) speed operation.

The transmission shall be equipped with the oil level sensor (OLS); this sensor shall allow the operator to obtain an indication of the fluid level the shift selector. The sensor display shall provide the following checks, correct fluid level, low fluid level and high fluid level.

DRIVELINES

The chassis shall be equipped with Neapco 1710 series driveshaft with full round yokes and universal joints. The driveshaft tubing shall be a minimum of 4.00" diameter with .134" wall thickness. The drivelines shall be balanced at a minimum of 3000 RPM.

FIRE PUMP MOUNTING

Extra heavy-duty mounting brackets shall be bolted to the chassis frame rails for the installation of the fire pump. The mounting brackets shall be positioned aligning the pump insuring the angular velocity of the driveline joints are the same at each end allowing for full capacity performance with minimal vibration.

FUEL TANK

The chassis shall be equipped with a 65-gallon rear mounted fuel tank. The tank shall be constructed of 12-gauge steel with stainless steel mounting straps and rubber isolators secured to the bottom flange of the chassis framerails. The tank shall be baffled to prevent sloshing, vented, and have a drain plug installed on the bottom. A 240-33 ohm fuel-sending unit shall be provided and broadcast across the SAE J1939 data link.

The tank shall be certified to meet FMCSR 393.65 and 393.67.

FUEL LINES

The fuel lines shall be wire braid reinforced fuel grade hose. They shall have reusable fittings and be routed along the inside of the frame rails. Fuel lines shall be protected against chaffing by non-conductive, frame mounted standoff fasteners and, where necessary, with heavy-duty plastic zip loom.

FUEL SHUTOFF VALVE(S)

One (1) fuel shutoff valve(s) shall be installed in the suction side of the fuel lines near the fuel filters to prevent the loss of prime during fuel filter maintenance.

FUEL FILTER, SECONDARY

The Cummins engine shall be supplied with a secondary fuel filter mounted to the engine.

FUEL/WATER SEPARATOR, PRIMARY FILTER

The Cummins ISL engine shall be supplied with a primary fuel water separator with a bottom drain valve mounted in the chassis frame. The LMC will display "WATER IN FUEL" and an alarm will sound when the water needs to be drained from the fuel water separator.

UREA STORAGE TANK

There shall be a 5-gallon urea tank located in the L1 body compartment. The L1 compartment door shall serve as the access door for filling this tank. There shall be a urea level gage located in the cabs main instrument panel.

EXHAUST SYSTEM

The apparatus shall contain a particulate filter and SCR (Selective Catalytic Reduction) device downstream of the engine's turbo. This filter and SCR device are required to maintain US 2010 EPA Emissions. This filter and SCR device replaces the conventional style filter. The location has been engineered, tested, and set to allow for proper regeneration. Therefore, this filter cannot be removed, altered, or relocated.

An indicator light panel for this system shall be located in the cab informing the driver of the systems status. At times a forced regeneration may be required, which would be indicated by a combination of illuminating and/or flashing lights depending on the engine model.

A momentary switch labeled "Regen" shall be located within reach of the driver's seated position. The regeneration switch initiates the forced regeneration. A momentary DPF inhibit switch prevents the vehicle from having the ability to regenerate. Once the inhibit feature has been activated the ignition switch must be cycled off/on to return the vehicle to normal regen. All vehicles equipped with pumping applications shall allow for passive regeneration whenever the system requires and the engine is at its proper parameters unless inhibited by the DPF inhibit switch. In no way shall this feature affect the RPM of the engine being controlled by the pump operator.

The engine exhaust system shall be horizontal in design using stainless steel tubing mounted under the frame rail right side extending forward of the rear wheels.

An exhaust temperature mitigation device shall be installed. The temperature mitigation device shall lower the temperature of the exhaust by combining ambient air with the exhaust gasses at the exhaust outlet.

CUSTOM CAB

The cab shall be an engine forward extended, medium four-door, (raised roof) full tilt. The cab shall be an "Open Interior" roll cage design requiring no inner walls or vertical interior supports. The cab roof shall be raised 8 inches providing additional headroom above the crew area. The raised portion shall start midway over the driver and officer seats. The cabs seating capacity for emergency personnel shall be six.

All storage areas inside the cab shall fully comply with NFPA 1901 restraint requirements of 9G’s.

CRASH TEST

The cab shall exceed the strict and detailed requirements of the Economic Commission for Europe Structural Standard, ECE-29R. The test shall consist of an impact load test and a vertical load test to the cab.

The cab shall have a frontal impact tests via pendulum, with an impact load in excess of 127% of the ECE-29R Standard. The estimated speed of the 3736-lb (1698-kg) pendulum shall be a minimum of 18.2 mph. The cab doors shall be closed during the impact test but be able to open after impact. There shall be no passenger intrusions or any structural component failures. The cab shall meet or exceed all criteria of this portion of the test.

In conjunction with the frontal impact test, a vertical load test shall be implemented to the cab. The cab roof shall be loaded with a minimum of 65,979 lbs. (29.53 metric tons). There shall be no failure to the cab structure or mountings, any passenger compartment intrusion or degradation of occupant survival space, or any other structural failure. The cab shall meet or exceed all criteria of this portion of the test.

A complete photographic, video, data, and dimensional record of these tests shall be available and placed on record for customer evaluations.

CAB MATERIALS

The cab shall be constructed entirely of aluminum alloy extrusions and 3/16" (.188) thick, 5052-H32 alloy, marine grade aluminum sheets. The corner posts, door slam posts, roof rails and doorframes shall be made of custom extrusions designed specifically for this cab with slots for inserting the skin. The rear wall and roof shall be reinforced with a grid of rectangular extrusions, which are welded to the overall cab extrusion framework. The front corner caps shall consist of castings designed specifically for this cab with relief areas cast in place for attachment of roof skin and intersecting structural extrusions. Overlapping formed corner caps are not acceptable.

CAB DIMENSIONS

- Overall width skin to skin: 96 inches
- Overall vehicle width: 116 inches (w/standard mirrors)
- Overall length: 136 inches
- Cab Height Front: 87 inches
- Cab Height Rear: 95 inches
- Center of front axle to back of cab: 62 inches (lower section notched back 56 inches)
- Windshield area: 4100 square inches
- Front grill opening: 430 square inches
- Side grill opening: 105 square inches
- Cab full tilt angle: 45 degrees
- Cab full tilt height: 187 inches
- Floor to ceiling in front: 60 inches
- Floor to ceiling in rear: 66 inches
- Engine cover height: not to exceed 27-1/2" front-to-back and side-to-side
- The Driver shall have no less than 24-1/4" of hip room
- The Officer shall have no less than 23-1/4" of hip room

DOUBLE WALL CAB FACE

The cab front shall be of double wall construction resulting in a sealed firewall. The inner and outer shall both be formed from 3/16" thick, 5052 H32 alloy aluminum with structural aluminum reinforcements. This design provides for increased structural integrity, crew safety, and reduced road noise in the passenger area. The outer wall is used for mounting forward lighting, grill and windshield wipers. The inner portion shall be treated with a heavy black undercoating material for corrosion prevention.

SEALED ENGINE TUNNEL

The engine tunnel shall be a structural part of the passenger cab, constructed from welded 3/16” aluminum plate and reinforced with aluminum extrusions. The rear of the engine tunnel shall be no less than 57” inches from the rear wall of the cab, allowing maximum legroom for forward facing passenger. After welding, the seams shall be completely sealed with silicone caulking.

Engine enclosures that are not an integral part of the cab structure are not acceptable.

The interior of the engine tunnel shall be insulated with 1” thick foil backed insulating foam, attached with stud and button method. A cross-section analysis of the insulation shall reveal a 1/8” thick barrier material for additional noise and heat insulation.

CAB FLOORS

Cab floors shall be constructed from an aluminum extruded frame and 3/16” thick aluminum plate. Floor mats and insulation are detailed later in this specification.

The forward cab floor shall be as large as possible for both the driver and officer. Floorboards shall extend in width from the side of the engine tunnel, all the way to the cab door inner panel. They shall extend forward from the seat riser to the inner portion of the double wall cab face. The officer shall have approximately 28” of foot room.

The entire rear floor of the cab, to reduce trip and fall hazards, shall be a single plane. In applications requiring the use of a top-mounted PTO, a raised area in the floor may be required.

For maximum crew comfort and eliminate leg fatigue during emergency responses, the floor beneath the rear facing jump seats shall be large enough for a seated firefighter to rest both feet side-by-side. Cab floor designs that are wide enough for only one foot shall not be accepted.

CAB CORROSION PROTECTION

A corrosion preventative material shall be applied during cab construction. A ten-(10) year warranty against corrosion perforation shall be provided for the cab.

WHEEL WELL LINERS

Full wheel well liners shall be installed beneath the cab to protect the bottom of the cab from road splash. The liners shall be constructed of aluminum and be full width.

The wheel well liners shall be attached with threaded fasteners and be easily removable for service.

FENDERETTES

Bright polished stainless steel fenderettes shall be installed at the wheel well openings. A rubber gasket shall be installed between the fenderette and cab to eliminate contact of dissimilar metals.

WINDSHIELD

The windshield shall have approximately 4100 square inches of unobstructed viewing area. It shall be a two-(2) piece design with tinted automotive safety glass, with a wraparound design. A .030-inch thick vinyl layer shall separate the laminated glass.

All other cab glass shall be tinted and tempered.

INTERMITTENT WINDSHIELD WIPERS

Two electric "Pantograph" style windshield wipers shall be installed on the front face of the cab. The motors shall operate through a 72-degree sweep and include 24-inch blades to give superior wiper coverage. A washer reservoir of not less than 70 ounces shall be mounted a latched door recessed in the officer's step.

A switch located on the turn signal control arm shall operate the intermittent wipers.

EXTERIOR GRAB HANDLES

Stainless steel handrails with a knurled, slip-resistant finish shall be positioned behind each cab door. Grab rails shall be minimum 24” in length. Molded rubber gasket shall be mounted between the grab handles and the cab in order to prevent corrosion due to dissimilar metals being in contract.

EXTREME DUTY CAB INTERIOR

Cab floors shall be covered with a pebble grain rubber matting with barrier type insulation. Edges of the insulation shall be trimmed with a cast aluminum foot plate for a pleasing appearance.

An insulated covering shall be fitted over the engine tunnel. Made from the same material as the cab floor insulation, this covering shall insulate the cab from engine heat and noise. A Cast Products aluminum door on top of the engine tunnel shall provide access for fluid checks.

The back side of the engine cover, as well as a 2” to 3” return on the top side, shall be covered with a sprayed aluminum panel and be of sufficient strength to allow for 9G resistant mounting of any optional hand lights, entry tools, or other fire rescue equipment specified by the customer.

The cab shall have a custom built, smooth aluminum plate dashboard, overhead console, glove box, instrumentation panel and switch panel. The front overhead shall include room for the three sun visors and the door open indicator light.

The front door posts shall be trimmed with styled aluminum covers that conceal any wiring, as well as including a mounting area for rubberized grab handles. The center windshield post shall be covered F-Shield paint finish.

Prior to installing the headliner and rear wall panel, minimum R-7 insulation, shall be installed between the interlocking extrusions.

These covers serve to finish the interior, cover wiring harnesses and insulate the interior from sound and heat.

CAB STEPS

All cab steps shall be of a stationary, fixed design that use no moving parts and requires no periodic maintenance other than cleaning.

There shall be an open-grip, bright finish step at each cab door opening. The area under the step shall be enclosed to prevent road dirt from entering the cab. There shall be provisions made at the front of the step for easily flushing out any dirt accumulation.

At each door, opening there shall also be an intermediate cab step. Intermediate steps shall be full width of the doorstep area and constructed from embossed aluminum tread plate.

CAB STEP HEIGHTS

The distance from level ground to the first cab step shall be 19-21 inches without using swing-down style or under-cab "stirrup" auxiliary steps.

The distance from first cab step to intermediate step shall be approximately 12.5 inches front and rear.

The distance from intermediate step to cab floor shall be approximately 9.5 inches in the front and 12 inches in the rear.

CAB DOORS

All cab doors shall be full length, designed to cover the step well area. Each cab door shall be flush type with a minimum opening of 85 degrees.

The front doors shall be approximately 40" inches wide by 78-1/2" inches tall. The doors shall have a two-piece window, one operational and one fixed. The combined viewing area shall be no less than 796 square inches. For added safety, the front door windows shall slant down for maximum visibility.

The rear doors shall be approximately 34" inches wide by 86-1/2" inches tall. The doors shall have a two-piece window, one operational and one fixed. The combined viewing area shall be no less than 905 square inches. The crew area windows shall have a dark tint.

The doors shall include a bulb style rubber seal around the perimeter of each door frame ensuring a weather tight fit.

The cab entry doors shall be equipped with exterior pull handles, suitable for use while wearing firefighter gloves. The handles shall be made of aluminum with a chrome plated finish. The interior latch shall be cast aluminum, oversized for easy access with a gloved hand.

DOOR HINGES

Each cab door shall be attached to the cab with two concealed automotive style hinges with restraining strap.

CAB DOOR LOCKS

There shall be individual manual twist type door locks at each door handle. In accordance with FMVSS 206, all exterior door locks shall be keyed alike.

CAB DOOR WINDOWS, ELECTRIC

All cab door windows shall be electrically operated. The driver's door shall contain four-(4) switches to control the operation at each door. All remaining doors shall contain one-(1) heavy-duty switch to control the window operation located on top of the door panel.

FIXED CAB WINDOW, LEFT SIDE

A window of not less than 16-1/2" wide by 33-1/2" high shall be installed in the left sidewall of the cab between the front and rear door. The glass shall be tempered, dark tinted and retained with one-piece triple locking rubber lacing.

FIXED CAB WINDOW, RIGHT SIDE

A window of not less than 16-1/2" wide by 33-1/2" high shall be installed in the right sidewall of the cab between the front and rear door. The glass shall be tempered, dark tinted and retained with one-piece triple locking rubber lacing.

CAB TILT LOCK

The cab shall be supported at four points. At the front, there shall be two center bonded bronze bushings. At the rear, there shall be two hydraulic locking latches.

The cab shall tilt 45 degrees by means of a pair of hydraulic cylinders driven by the electric pump. The tilt system geometry shall be designed in such a way that the maximum hydraulic pressure in the system does not exceed one-half the pressure rating of the cylinders or pump when the cab is empty. This allows the Fire Department to leave some equipment in the cab when maintenance is required (although this equipment must be secured).

Once the cab is fully tilted, a safety latch shall automatically engage and act as a positive lock. The lock is released by a pull cable. The hydraulic cylinders shall be equipped with velocity fuses to prevent the cab from falling, should the hydraulic system fail.

The front of the cab pivots and rides on the center bonded bushings by means of lubricated pivot pins that retain the cab yoke in the bushings. The bushings allow limited movement of the cab, and isolate the cab from noise and vibration.

The rear mounts consist of a pair of hydraulic cab latches mounted on rubber cushioned mounting brackets. Latches release when the pressure in the tilt system exceeds 500 PSI.

An ignition interlock system shall be installed for cab tilt operation. Cab tilt operation requires the master battery switch to be in the on position with the parking brake applied.

CAB TILT PUMP W/MANUAL BACKUP

An electric over hydraulic cab lifting pump shall be provided to tilt the cab for engine and transmission service. The pump shall be operated by a remotely wired control box with coiled cord, weather resistant plug, and receptacle. An interlock shall be provided preventing the cab from inadvertently rising until the transmission is placed in the neutral position and the parking brake is set.

In the event of electrical failure, a hydraulic manual backup shall be provided to tilt the cab.

CAB PAINT FINISH, TWO TONE

The custom cab shall have a two-tone paint finish. The paint colors shall be furnished by the customer. The break in the color shall be at the bottom of the chassis window, unless otherwise specified by the department.

All cab exterior components including doors and glass, shall be removed. The complete cab exterior shall be thoroughly sanded, solvent cleaned and finished with high luster polyurethane paint before mounting of body to assure full coverage of paint to all surfaces.

UPPER CAB PAINT FINISH

The upper cab exterior shall have no mounted components prior to painting to assure full coverage of metal treatments.

These steps are followed as recommended by the paint manufacturer to provide a lasting and high quality gloss finish. All paint products shall be provided by DuPont.

UPPER CAB PAINT COLOR/CODE

The customer shall specify the exact paint color and number for the completed chassis. The paint color shall then be cross-referenced to the DuPont number. The apparatus cab upper shall then be painted as described in the paint section with this color.

The upper cab color/code shall be Silver 751570 EW.

PRIMARY/LOWER CAB PAINT FINISH

The primary/lower cab exterior shall have no mounted components prior to painting to assure full coverage of metal treatments.

These steps are followed as recommended by the paint manufacturer to provide a lasting and high quality gloss finish. All paint products shall be provided by DuPont.

PRIMARY/LOWER CAB PAINT COLOR/CODE

The customer shall specify the exact paint color and number for the completed chassis. The paint color shall then be cross-referenced to the DuPont number. The apparatus cab lower shall then be painted as described in the paint section with this color.

The lower cab color/code shall be Blue 869761 EW.

CAB PAINT BREAK LINE STRIPE

A 1/2" wide Spun Silver paint pin stripe with black shade shall be added to the cab, two tone paint scheme. This stripe shall be applied at the break line.

INTAKE GRILLE, RIGHT SIDE W/EMBER SEPARATOR

A right stainless steel grille shall be installed approximately 70" above ground level on the right side of the cab between the front and rear cab doors. The grille shall have a minimum open area of not less than 119 square inches serving as an air intake and warm air dispersant system.

An Ember Separator shall be installed between the stainless steel grill and the air filter system allowing fresh air to pass through to the engine while preventing particles of .039 inches (1.0 mm) or larger from entering the system in accordance with the latest version of NFPA easily accessible through the exterior stainless steel grille.

The grille shall be notched to allow easy access without removing the cab handrail.

EXTERIOR TRIM, REAR CAB STEP WELL

The rear cab door stepping surfaces shall be trimmed with aluminum tread plate. There shall be tread plate covers that provide access to the chassis battery system.

TREAD PLATE BACK OF CAB

The entire back wall of the cab shall be covered with 1/8" (.125") thick aluminum tread plate. The tread plate shall be coated with a rust inhibitor and fastened to the cab with stainless steel fasteners. A bead of caulking shall be applied to the perimeter of the tread plate.

CAB CORROSION PROTECTION AND SOUND DEADENING

The apparatus cab shall be completely covered in one of two types of paint, prior to installation of any interior or exterior components, including insulation and floor mats. This process shall be required to guard against corrosion as well as to keep the cab as quiet as possible for firefighters.

The entire underside and double wall area at the front of the cab shall be cleaned, primed and sprayed with black F-Shield as a finish coat. This shall include any areas that are not normally visible after the cab is complete.

The entire cab interior shall be sprayed with F-Shield, as described later in these specifications. F-Shield shall be sprayed over the ceiling, floor, side walls, forward fire wall, rear wall, dash, engine tunnel, interior cab doors and both sides of the cab door panels.

The cab exterior shall be completely finish painted with DuPont paint, as described later in these specifications. This shall include the areas under any optional rear wall or cab roof diamond plate overlays.

The fire department shall, through the Virtual Manufacturing feature described earlier in these specifications, have the ability to see these areas covered with F-Shield prior to installation of items such as engine tunnel insulation, cab interior insulation and headliners, engine tunnel covering, floor mats, cab inner door panels, etc.

As a result of these cab corrosion protection measures, a ten-(10) year warranty against cab corrosion shall be provided to the fire department.

INTERIOR CAB FINISH

The interior of the cab shall be painted with a dark gray “F-Shield”. The cab metal finish shall be covered with a coat of adhesion promoting primer.

“F-Shield” is a 100% solids, state-of-the art, VOC-free, plural-component, pure polyuria elastomeric membrane. This seamless system exhibits extraordinary performance characteristics. F-Shield is based on amine-terminated polyether resins, amine chain extenders and MDI pre-polymers. This membrane achieves an extremely tough, flexible, chemical and abuse resistant finish. F-Shield shall be used in specified areas for maximum protection.

The headliner (front and rear) and rear wall (if applicable) shall be covered with heavy-duty gray vinyl.

FLOOR MATS/ENGINE TUNNEL COVERING

The floor mats and engine tunnel shall be covered with gray pebble grain vinyl with 1/4" (.250") foam backing. The edges of the floor mats shall be trimmed with a cast aluminum foot plate for a pleasing appearance.

INTERIOR TRIM, REAR WALL ALUMINUM PANAL

The entire interior rear wall of the cab shall be covered with 3/16" (.1875") smooth aluminum plate coated with “F-Shield”.

“F-Shield” is a 100% solids, state-of-the art, VOC-free, plural-component, pure polyuria elastomeric membrane. This seamless system exhibits extraordinary performance characteristics. F-Shield is based on amine-terminated polyether resins, amine chain extenders and MDI pre-polymers. This membrane achieves an extremely tough, flexible, chemical and abuse resistant finish. F-Shield shall be used in specified areas for maximum protection.

The color of the rear wall panel shall match the interior of the cab unless otherwise specified.

CAB GRAB HANDLES, INTERIOR

Two-(2) interior grab handles installed in the cab on the "A" posts, one-(1) each side. The grab handles shall be constructed of rubberized steel.

Four-(4) interior grab handles installed in the cab, one-(1) each side on top of the front door panels adjacent to fixed window and one-(1) each side on the rear door panels. The grab handles shall be constructed of 1-1/4" knurled stainless steel. The gab rails shall be mounted with chrome plated end stanchions.

There shall be one-(1) interior grab handle installed on the inside of each rear cab door. The handles shall extend horizontally with width of the window just above the window sill. The grab handles shall be constructed of bright stainless steel.

GLOVE BOX

The glove box shall be an integral part of the welded aluminum dashboard assembly and located on the officer side of the cab. The storage area of the glove box shall bolt in place for easy service access. The door shall be drop down style and constructed from brushed stainless steel with a recessed latch. The area above the glove box shall be flat for a work surface or optional MDT mounting.

SUN VISORS

The cab shall be equipped with three-(3) sun visors. The visors shall be installed on the overhead panel and provide approximately 90 percent coverage across the width of the cab. The visors shall be approximately 26" wide and 6" tall.

UPPER DOOR PANELS, INTERIOR

There shall be four-(4) interior upper front and rear door panels installed covered with “F-Shield” extending from the window down to the lower kick plate. The color of the panels shall match the interior of the cab unless otherwise specified.

“F-Shield” is a 100% solids, state-of-the art, VOC-free, plural-component, pure polyuria elastomeric membrane. This seamless system exhibits extraordinary performance characteristics. F-Shield is based on amine-terminated polyether resins, amine chain extenders and MDI pre-polymers. This membrane achieves an extremely tough, flexible, chemical and abuse resistant finish. F-Shield shall be used in specified areas for maximum protection.

LOWER DOOR PANELS, INTERIOR

There shall be four-(4) interior lower front and rear door panels installed covered with “F-Shield” extending from the window down to the lower kick plate. The color of the panels shall match the interior of the cab unless otherwise specified.

“F-Shield” is a 100% solids, state-of-the art, VOC-free, plural-component, pure polyuria elastomeric membrane. This seamless system exhibits extraordinary performance characteristics. F-Shield is based on amine-terminated polyether resins, amine chain extenders and MDI pre-polymers. This membrane achieves an extremely tough, flexible, chemical and abuse resistant finish. F-Shield shall be used in specified areas for maximum protection.

REFLECTIVE STOP SIGNS

There shall be four-(4) "STOP" signs installed in the cab, one-(1) on the lower door panel of each cab door.

INSTRUMENTATION

For easy viewing, gauges shall be white faced with black lettering and adjustable intensity LED backlighting. The gauges shall meet SAE J-1939 protocol to eliminate redundant sending units. Gauges must be fully sealed to 6 psi. The gauge crystal shall be polycarbonate, anti-fog, and anti-scratch coated. The panels shall be divided into groups of instruments that make identification sensible and easy to view.

The following instruments shall be included in the gauge panel in front of the driver:
Left Side-
-Dial Type voltmeter gauge

-Dial Type coolant temperature gauge with warning light
-Dial Type engine oil pressure gauge with warning light
-Engine hour/trip hour red reset button
-Dial Type tachometer with digital engine hour meter and trip hour meter along with a digital, four-line diagnostic display

Center-
-Driver information display panel with alarm output for gauge warning lights
-Dial type primary air pressure gauge with warning light
-Panel light dimmer control knob
-Dial type secondary air pressure gauge with warning light

Right Side-
-Dial type fuel level gauge with low fuel indicator level
-Dial type Diesel Exhaust Fluid gauge with low level indicator
-Dial type transmission temperature gauge with warning light
-Odometer/trip odometer red reset button
-Dial type speedometer gauge with digital odometer and trip odometer that is active when pumping

The following indicator lights shall be provided in the gauge panel:
-Air cleaner restriction light
-High beam indicator
-Parking brake indicator
-Turn signal indicators
-Low primary air
-Low secondary air
-Battery voltage error
-Door ajar
-Auto chassis lubrication system (if equipped)
-Emergency engine shutdown (if equipped)
-Diagnostic indicators for airbag, engine, transmission, and ABS

The lower dash to the left of the steering column shall contain the ignition, start and headlight switches. When a multiplexed electrical system is used with a display screen the headlight switch will be located in this screen.

The lower dash to the right of the steering column shall contain the regeneration and traction control switches.

The electronic diagnostic connections for the engine, transmission, and ABS brakes shall be located in the lower left firewall.

SERVICE ACCESS

The driver's instrumentation area shall be made of textured black non-glare panels affixed to the aluminum dash. There shall be a single gauge panel, secured with a bottom hinge and four-(4) quarter-turn fasteners. Access to the gauge clusters shall be accomplished simply by releasing the latches and pulling the panel outward. Other gauge access designs are not acceptable.

The chassis electrical panel shall be located in the center of the aluminum dash, between the switch panel and the windshield. There shall be a lift up cover, with two-(2) recessed lift-and-turn latches for quick access to the panel. The underside of the panel shall have a pre-printed diagram that clearly depicts the function of each circuit breaker and relay. The vehicle load manager shall be located in this panel. The opening to the electrical shall measure approximately 19" wide near the switch panel and 37" wide toward the windshield.

DRIVER'S INFORMATION DISPLAY

There shall be a 10.8" x 2.44" display panel on the driver's gauge cluster that will illuminate various caution and warning indicator lamps. This display also contains a 340 x 90 monochrome LCD for display of specific and user selectable data. The display unit reads data from the J1939-11 powertrain communications network. Display will be capable of but not limited to the following features:

-Auto Self-Test
-Viewing the state of each digital or analog input to the unit
-Viewing the state of each output
-Allows users ability to set service reminders by distance or hours of operation
-Allows users ability to set data screens in various formats i.e. bar graph / text
-Viewable active and stored powertrain ECU fault data.
-Diagnostics screen allows user to select and view a specific source such as engine / transmission
-Display is selectable between English and metric readings.
-Messages and Icons will pop up in display when a condition exists such as: transmission oil life, filter or other service needed as reported by the Allison Transmission ECU engine conditions: low oil pressure, high coolant temperature, low coolant level, water in fuel, check / stop engine, regeneration needed, high exhaust temperture

Indicator lights may also accompany pop up messages:
Door ajar indicator will also pop up a "Do Not Move Vehicle, Check all doors and Items that Raise or extend beyond apparatus cab or body" message

CHASSIS ELECTRICAL SYSTEM

The chassis shall include a single starting electrical system which shall include a 12 volt direct current system, suppressed per SAE J551. The wiring shall be appropriate gauge cross link with 311 degree Fahrenheit insulation. All SAE wires in the chassis shall be color coded and shall include the circuit number and function where possible. The wiring shall be protected by 257 degree Fahrenheit minimum high temperature flame retardant loom.

CHASSIS COLOR CODED WIRING

All chassis wiring shall be type "GXL" in accordance with S.A.E. J1128 and NFPA-1901. ALL wiring shall be **COLOR CODED** and continuously marked with the circuit number and function.

A battery "loop back" ground circuit shall be supplied for the EDS system to reduce the possible effects of Electromagnetic and Radio Frequency Interference.

The chassis cab, engine and transmission shall be electrically bonded to the chassis frame rails with braided ground straps.

SWITCH PANEL, DRIVER'S SIDE

The driver's side panel shall be constructed of 5052-H32 Marine Grade, 1/8 inch thick aluminum plate. The dash panel shall include the following:

The left side of the panel shall have nine-(9) switch positions, five-(5) upper and four-(4) lower. The upper positions shall be ENGINE BRAKE control (lighted rocker switch), ENG BRK LEVEL control (non-lighted rocker switch), DEFOG control (lighted rocker switch), HEAT/OFF/AC control (non-lighted rocker switch) and BLOWER SPEEDS control (non-lighted rocker switch). The lower positions shall be SPARE (lighted rocker switch), SPARE (non-lighted rocker switch), MIRROR HEAT control (lighted rocker switch) and MIRROR CONTROL (joystick type).

The center of the panel shall house the pump shift control.

The right side of the panel shall house the transmission shifter, OK TO PUMP green light and PUMP ENGAGED green light.

SWITCH PANEL, CENTER

The center panel shall be constructed of 5052-H32 Marine Grade, 1/8 inch thick aluminum plate. The dash panel shall include the following:

The left side of the panel shall have eight-(8) switch positions, four-(4) upper and four-(4) lower. The upper positions shall be EMERGENCY MASTER control (lighted rocker switch), LIGHTBAR control (lighted rocker switch), FRONT WARNING control (lighted rocker switch) and SIDE WARNING control (lighted rocker switch). The lower positions shall have four-(4) BLANK panels.

The center of the panel shall house the electric siren control head in the upper portion and parking brake control in the lower portion.

The right side of the panel shall have eight-(8) switch positions, four-(4) upper and four-(4) lower. The upper positions shall be REAR WARNING control (lighted rocker switch), COMPARTMENT LIGHT control (lighted rocker switch), WORK LIGHT control (lighted rocker switch) and SPARE (lighted rocker switch). The lower positions shall have four-(4) BLANK panels.

SWITCH PANEL, OFFICER'S SIDE

The officer's side panel shall be constructed of 5052-H32 Marine Grade, 1/8 inch thick aluminum plate. The dash panel shall include the following:

The panel shall be blank.

VEHICLE DATA RECORDER

Apparatus shall be equipped with a Class1 “Vehicle Data Recorder and Seat Belt Warning System” (VDR/SBW) that is connected to the power train CAN (Controller Area Network) bus consisting of transmission (TCM), engine control

(ECM) and antilock brake (ABS) modules mounted on the apparatus. The VDR/SBW will function per NFPA 1901-2009 sections 4.11 (Vehicle Data Recorder) utilizing the power train's J1939 data and 14.1.3.10 (Seat Belt Warning) using the Class1 "Seat Belt Input Module" for seat occupied and belt status information.

The VDR data shall be downloadable by USB cable to a computer using either Microsoft ™ or Apple ™ Operating Systems using Class 1/ O.E.M. supplied reporting software.

There shall be a seat belt indicator system supplied in the cab. The indicator system shall indicate seat belt use for each individual seating position when the seat is occupied, the seat belt remains unfastened and the parking brake is released.

A display panel shall be supplied in the dash area. The panel shall have an audible indicators and a red light display to indicate that a seat belt has not been fastened.

SEAT BELT WARNING SYSTEM

Mounted in the overhead console in the driver's area the indicator system shall indicate seat belt use for each individual seating position when the seat is occupied, the seat belt remains unfastened and the parking brake is released.

STEERING COLUMN

The steering column shall be a Douglas Autotec tilt and telescope. A lever mounted on the side of the column shall control the tilt and telescope features. A Signal-Stat (self-canceling) turn signal switch shall be mounted to the column. The steering shaft from the column to the meter box shall have a rubber boot to cover the shaft slip and a second rubber boot to seal the passage hole in the floor.

The steering wheel shall be 18 inches in diameter.

The Signal-Stat turn signal switch shall include the following functions:

- Left and right turn signals
- High beam dimmer control
- Hazard warning switch
- Two speed with intermittent windshield wiper control
- Windshield washer control

HEATING/AIR CONDITIONING SYSTEM

The climate control system shall use three-(3) heater-air conditioner units.

The front circuits shall use two-(2) heater-air conditioning units, mounted under the dash on the driver's side and under the officer's side. These units are each rated at 14,700 BTU heating and 19,200 BTU cooling. The units shall blow up toward the windshield through adjustable vents in the dash. Additionally, there shall be two-(2) adjustable vents each side to direct air at the lower portion of the driver and officer seating areas. Two switches, including low/med/high and heat/off/ ac, shall control the front system.

A blend air switch shall be installed to operate both the front heating and cooling systems. This provides hot and dry air for defogging purposes.

The two front systems shall combine to put out a total of 688 CFM air flow.

The rear circuit shall use one large heater-air conditioner unit with a rating of 34,150 BTU cooling and 36,000 BTU heating. It shall be mounted under the forward facing rear seats. Ducting shall run up the rear wall to adjustable vents (minimum of six) running along the center of the ceiling toward the front of the cab. Two-(2) switches including high/med/low and heat/off/AC shall control the unit. In addition to the rear control switches, there shall be an ON/OFF switch located near the driver to disable the rear unit if needed.

The rear system shall put out a total of 640 CFM air flow.

The total system shall have a capacity of 72,550 Btu cooling, 65,400 Btu heating and a total in-cab air flow of 1,328 CFM.

The entire roof and back wall shall be heavily insulated with 1" foam to enhance the cooling system.

Both heaters shall be plumbed with a shut off valve at the engine.

The air conditioning system shall be powered through two-(2) engine driven 9-1/2cubic inch compressors.

Two-(2) roof top condensers, each rated at 38,700 Btu, shall be provided.

The two-(2) roof top condenser housings shall be painted a color other than the standard black. The Fire Department shall specify the exact paint color.

SEAT MATERIAL

The seats shall be covered with Durawear material.

SEAT COLOR

The cab seats shall be gray in color.

SEAT LOGO

The Fire Department patch shall be embroidered in the head rest of the seats.

DRIVER'S SEAT

The driver's seat shall be a Bostrom Model Sierra high-back with air ride suspension. The seat shall have 4-way adjustability by the driver in accordance with SAE J1517. The seat shall be equipped with a 3-point seat belt with an automatic retractor. The belt shall be red in color to meet current NFPA requirements.

OFFICER'S SEAT

The officer's seat shall be a Bostrom Tanker 450 SCBA non-suspension. Seat back shall include a spring-loaded flip-up headrest. The seat shall be equipped with 3-point shoulder harness with lap belt and an automatic retractor built into the seat assembly. The belt shall be red in color to meet current NFPA requirements.

There shall be a SmartDock Gen II hands-free SCBA holder provided with the seat. The SCBA holder shall be a strap-free docking station with single motion insertion and hands-free release when the occupant rises out of the seat.

There shall one-(1) SCBA seat cavity removable panel provided for a smooth back when the breathing air apparatus is not in use.

CREW SEAT, DRIVER'S SIDE REAR FACING

One-(1) outboard, rear facing, seat shall be installed behind the driver. The seat shall be Bostrom Tanker 450 SCBA non-suspension seat. The seat back shall include spring-loaded flip-up headrest. The seat shall be equipped with 3-point seat belt with automatic retractor. The belt shall be red in color to meet current NFPA requirements.

There shall be a SmartDock Gen II hands-free SCBA holder provided with the seat. The SCBA holder shall be a strap-free docking station with single motion insertion and hands-free release when the occupant rises out of the seat.

There shall be one-(1) SCBA seat cavity removable panel provided for a smooth back when the breathing air apparatus is not in use.

CREW SEAT, OFFICER'S SIDE REAR FACING

One-(1) outboard, rear facing, seat shall be installed behind the officer. The seat shall be Bostrom Tanker 450 SCBA non-suspension seat. The seat shall include a spring-loaded flip-up headrest. The seat shall be equipped with a 3-point seat belt. The belt shall be red in color to meet current NFPA requirements.

There shall be a SmartDock Gen II hands-free SCBA holder provided with the seat. The SCBA holder shall be a strap-free docking station with single motion insertion and hands-free release when the occupant rises out of the seat.

There shall one-(1) SCBA seat cavity removable panel provided for a smooth back when the breathing air apparatus is not in use.

COMPARTMENT, CENTER FORWARD FACING

One-(1) EMS compartment constructed of 1/8" smooth aluminum shall be mounted in the cab. The compartment shall be approximately 40”W x 40”H and as deep as practical. This cabinet shall be installed on the back wall replacing the two center forward facing seats. The cabinet shall be finished with a spray on polyurethane liner, color to match the interior.

EMS COMPARTMENT DOOR

One-(1) interior roll-up compartment door shall be installed on the EMS compartment.

The roller shutter lath, latch lath, guide channels, weather top seal, and all exposed aluminum components shall be constructed entirely of aluminum extrusion (6000) series. The face portion of the lath shall be a minimum of 1-1/2" and a maximum of 1-5/8" in width. The lath material shall maintain a wall thickness of 0.060" with a maximum overall thickness of .375"

The curtain for the roll-up door shall incorporate a mechanical hinge that shall interlock lath extrusion to form a complete curtain. The mechanical hinge area shall remain protected from weather, road debris or other exterior exposures through the incorporation of a special hinge sealing section. This sealing section shall be flexible in design and constructed of a flexible elastomer material (Ethylene Propylene Diene Monomer) rubber. Sealing sections of any other type shall not be acceptable. This construction shall insure that a flexible weather resistant seal shall be maintained. The interior surface of roll-up lath assembly shall be smooth in finish.

The extruded aluminum guide channels shall have the ability of being fastened to body with the incorporation of raised head fasteners inside the tracking area with no interference in the operation of the door. Guide channels shall be fully independent of each other and not attached in any way to the counterbalance mounting mechanism. The guide channels shall incorporate a weather seal also constructed of E.P.D.M. Rubber and both channel and sealing section shall be installed as one component. There shall be nylon flocking applied to the opposing surface to the roll-up door to enhance operation and eliminate any periodic maintenance.

The drip rail shall be constructed of 6000 series aluminum and have a protective anodized finish. The overall height shall be 1.375" with a maximum aluminum width not to exceed .437". The drip rail shall have a provision to secure top seal for the roll-up door. The top seal shall not be able to be separated from drip rail by any way other than means of installation.

There shall be an anodized aluminum sill plate installed at the bottom of the compartment door opening.

KEYED LOCK, EMS COMPARTMENT DOOR

There shall be a stainless steel lock with keys installed on the EMS compartment door.

EMS COMPARTMENT LIGHT(S)

There shall be one (1) 36" OnScene Solutions "Night Stik" Access model 73036 shall be installed in the EMS compartment. The light shall provide 15HB of surface mounted LED'S per 10" sections and produce a minimum of 200 lumens per 10" of length.

SHELF, EMS COMPARTMENT

There shall be two (2) vertically adjustable shelf (shelves) shall be installed in the EMS cabinet. The shelf shall be constructed of smooth aluminum and have a 2" lip at the front, sides and rear of the shelf.

120V RECEPTACLE(S), EMS COMPARTMENT

There shall be one (1) 120V Duplex receptacle(s) shall be installed in the center forward facing EMS compartment. The outlet shall be a household type with straight blade plugs. The outlet shall be located in the lower left corner of the cabinet.

12V POWER OUTLET(S), EMS COMPARTMENT

There shall be One (1) 12-volt cigar lighter style power supply installed in the EMS compartment.

CHARGING PORT(S), 12-VOLT DUAL USB

There shall be one (1) Kussmaul model 019-219, 12-volt USB dual charging port(s) provided in the cab. The charging port(s) shall be equipped with one-(1) 1.0 amp connection and one-(1) 2.1 amp connection with built in LED indicator that indicates when the device(s) are powered.

The charging port(s) shall be wired to direct battery power with the appropriate wire size and fuse.

The charging port(s) shall be located in the emergency switch panel.

POWER AND GROUND STUDS

The electrical distribution panel shall include two (2) power studs. The studs shall be size #10 and each of the power studs shall be circuit protected with a fuse of the specified amperage. One (1) power stud shall be capable of carrying up to a 40 amp battery direct load and one (1) power stud shall be capable of carrying up to a 20 amp ignition switched load. The two (2) power studs shall share one (1) #10 ground stud.

12-VOLT POWER OUTLET(S)

There shall be two (2) 12-volt power outlets provided in the cab.

The outles shall be located on the officer's dash panel.

The power outlet(s) shall be wired to direct battery power with the appropriate wire size and fuse.

ELECTRONIC SIREN

There shall be one-(1) Whelen model 295HFS2 hands free siren control head mounted in the cab. The 295HFS2 shall incorporate a 12V/200W remote siren amplifier on an aluminum alloy chassis covered by an aluminum alloy housing with a powder coated black top for maximum protection. The 295HFS2 shall be furnished with a flush mount black polycarbonate powder coated control head. The 295HFS2 shall have the ability for either 100 or 200 watt output. The front overlay of the control head shall be made of a black polycarbonate and powder coated. The lettering and artwork on the overlay shall be illuminated with adjustable backlighting of soft LED non-glaring green. The control head operating controls will consist of a power switch, manual button, and a function rotary switch. The control head shall include a 20A/32V fuse. The microphone shall be hardwired to the 295HFS2. The 295HFS2 PC board shall have input polarity protection, output short circuit protection. The solid state siren speaker amplifier shall be vibration resistant.

The 295HFS2 shall have four Scan-Lock™ siren tones with two manual functions for additional siren tones. The siren amplifier shall have the ability to customize the placement of each siren tone with the rotary switch. The siren amplifier shall have a “Siren in Use” icon driver and adjustable preset repeat radio volume. The PTT (push to talk) switch on the microphone shall override all siren functions. The 295HFS2 shall have a combination On/Off and horn ring transfer switch with Bi-polarity horn/ring activation control. The 295HFS2 shall have SI Test® capability to perform a complete diagnostic silent test of amplifier and speaker(s). The siren amplifier shall have a quick disconnect plug. The 295HFS2 shall have the ability to activate siren tones with “Aux Enable” input either with a slide switch, power controls, or relay-to-ground connector. The 295HFS2 shall meet Class A requirement for SAE, AMECA, KKK1822, and California Title XII. The sire amplifier shall include stainless steel hardware for installation. The 295HFS2 is covered by a five year factory warranty.

HORN, ELECTRIC

A single electric horn activated by the steering wheel horn button shall be provided.

BACK-UP ALARM

There shall be one-(1) Whelen model WBUA107, 107 dB, electronic back-up alarm installed at the rear of the apparatus. The alarm shall be wired to the transmissions output signal and is automatically activated when the transmission is shifted into reverse.

LIGHTS, CAB DOME

Four-(4) Whelen 6" Round Super-LED model 60CREGCS shall be provided in the cabs headliner. The steady burn 12v interior light shall incorporate six red and six clear Super-LEDs and a clear non-optic translucent hard coated polycarbonate lens for maximum output. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The conformal coated PC board and foam in place gasket shall provide additional protection against environmental elements. The 60CREGCS includes Hi/Low intensity mode standards and On/Off dual switch function. The solid state interior light shall be vibration resistant. The interior light is covered by a five year factory warranty

The white LED lights shall be activated when any cab door is in the open position automatically switching off all red lights currently on and reactivated when the door is closed.

LIGHT, DOOR AJAR

A red door ajar flashing light, Whelen OS Series LED shall be mounted on the driver's side face of the overhead panel. A chrome flange is to be supplied with the light.

This light is wired with a flasher to the power panel for completion to circuit on the body.

The light circuit shall be wired so that the light circuit is deactivated when the parking brakes of the apparatus are applied.

A label shall be applied adjacent to the light 'DOOR OPEN'.

LIGHTS, STEP WELL

Six-(6) TecNiq D04 Linear Dragon LED lights shall be provided, two-(2) in each front cab step well and one-(1) in each rear cab step well. Each light shall activate when the cab door in opened.

LIGHTS, ENGINE MAINTENANCE

Two-(2) white 4" LED round lights shall be mounted under the cab. The lights shall automatically activate when the cab is tilted.

STANDARD FRONT LIGHTING

The headlamps, turn signals, front warning, and intersection lights shall be located within chrome warning light modules.

HEADLIGHTS

Four-(4) halogen rectangular headlights shall be installed in the warning light modules, two-(2) each side. The headlights shall be mounted in the upper positions of the module.

TURN SIGNALS

Whelen model 600 amber LED turn signal lamps shall be installed directly below the low beam headlights in the warning light modules.

TURN SIGNAL/MARKER LIGHTS

Whelen model 400 amber LED lamps shall be mounted outboard of the turn signal at a 45-degree angle off the front of the cab. The lamps are part of the warning light module, and are visible from both the front and side of the vehicle.

LED CORNERING LIGHTS

Whelen model 400 flashing LED-cornering lamps shall be mounted below the marker light in the warning light module. The lamps are mounted at a 45-degree angle off the front of the cab and are visible from the side and front of the vehicle.

DOT LIGHTS

There shall be five-(5) LED marker lights installed on the cabs roof located as high as practical and spaced per DOT guidelines.

LIGHTS, INBOARD LOWER FRONT WARNING

Two-(2) Whelen 600 Series Super-LED model 60R02FRR shall be installed, one-(1) each side inboard of the turn signal in the warning light modules. The warning light shall incorporate red Linear Super-LEDs, a red optic hard coated polycarbonate lens, and utilize a metalized reflector with integrated TIR hybrid optics for maximum output. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The encapsulated lens/reflector assembly and conformal coated PC board shall provide additional protection against environmental elements. The solid state warning lights shall be vibration resistant. The self-contained flashing light shall have 14 Scan-Lock flash patterns including synchronize feature and steady burn.The warning light is covered by a five year factory warranty.

LIGHTS, CAB GROUND

There shall be one-(1) Whelen 2G Series model 20C0CDCD 4" LED light mounted under each cab door illuminating the area below providing a safe entrance and exit for cab occupants. All cab ground lights shall automatically activate when any cab door is opened and by a switch located on the dash.

The 12v steady burn compartment light(s) shall incorporate 12 clear LED and a clear optic hard coated polycarbonate lens. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The encapsulated coated PC board and lens fitted with foam in place gasket assembly shall provide additional protection against environmental elements. The solid state compartment light shall be vibration resistant. The 20C0CDCD will contain 350 usable lumens. An installation kit including mounting hardware and rubber gasket shall be provided. The 20C0CDCD will contain a 12" terminated pigtail with a waterproof Deutsch® connector. The compartment light is covered by a five year factory warranty.

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TOW HOOKS, FRONT

Two-(2) chrome plated tow hooks shall be mounted to the bottom of the front bumper frame extension rails. The tow hooks shall be attached with Grade 8 bolts.

FRONT BUMPER

There shall be an 80,000 psi high tensile strength painted steel bumper provided fabricated from 10-1/2” x 3-1/2” x .375 steel channel bolted to the chassis frame rails utilizing grade 8 hardware protecting the front of the apparatus during head-on or angled collisions.

The bumper shall be painted job color.

RECESSED BUMPER POCKETS

The front bumper ends shall have recessed pockets to allow for mounting of warning lights.

GRAVELSHIELD

A gravelshield constructed of 1/8" (.125") embossed aluminum tread plate shall be installed above the frame extension between the bumper and the front face of the cab.

BUMPER COMPARTMENT, CENTER

There shall be a compartment provided in the front bumper gravelshield, centered between the frame rails fabricated of 1/8" (.125) smooth aluminum plate with drain holes to promote airflow.

COVER, CENTER FRONT BUMPER COMPARTMENT

The center bumper compartment shall have a hinged aluminum tread plate cover to secure the contents. The cover shall be secured in the closed position with a stainless steel latch. The cover shall be cut-out for access.

RECEIVER HITCH, BELOW FRONT BUMPER

One-(1) Class 3 receiver hitch shall be installed below the front bumper centered between the frame rails utilizing grade eight bolts.

There shall be one-(1) 12v Quick Connect, battery powered lead, wired to the chassis electrical system to supply a portable winch. The connector shall be located at the receiver location.

A safety sign FAMA28, shall be located on or near the receiver or anchor stating the maximum straight line pull rating.

RECEIVER HITCHES, LEFT/RIGHT/REAR OF BODY

Three-(3) Class 3 receiver hitches shall be installed, one-(1) each side below the left and right side rear body compartments and one-(1) below the rear step utilizing grade eight bolts.

A safety sign FAMA28, shall be located on or near each receiver or anchor stating the maximum straight line pull rating.

12 VOLT WINCH QUICK CONNECTS

There shall be three-(3) 12v Quick Connect, battery powered leads, wired to the chassis electrical system to supply a portable winch. The connectors shall be located one-(1) each at the receiver locations.

MECHANICAL SIREN

One (1) Federal Signal Q2B siren model #Q2B-012PSD electro-mechanical siren shall be mounted on the extended front bumper, driver's side outboard. The Q2B siren shall be a streamlined, chrome plated siren designed to provide reliable and long-life operation. The electro-mechanical siren shall produce the distinctive Q2B sound that is a registered trademark of Federal Signal, and shall be provided with a heavy duty clutch and an electric brake.

The Q2B siren shall measure 10.5” high x 14” long x 10” deep and shall produce 123 decibels at ten feet. The siren shall operate off the vehicles 12V system. The Q2B siren shall be pedestal mounted in the front of emergency vehicles.

The siren brake switch shall be located within reach of the driver.

SIREN WIRING

The siren activation switch shall be wired thru the chassis park brake and operate in the "Response Mode" only.

SIREN FOOT SWITCH

A foot operated switch shall be installed on the driver's side wired to the mechanical siren.

The switch shall be located on the front fire wall.

SIREN DASH SWITCH, OFFICER'S SIDE

A dash mounted switch shall be installed on the officer's side wired to the mechanical siren.

AIR HORN, PASSENGER'S SIDE

There shall be one-(1) 24" long Grover air horn installed in compliance with NFPA thru the front bumper, passenger's side, outboard of the frame rail. The air horn shall be plumbed to the chassis, air supply system thru an air protection valve, and manufactured from spun brass material with an easily separated die cast sounding unit for serviceability.

AIR HORN, DRIVER'S SIDE

There shall be one-(1) 24" long Grover air horn installed in compliance with NFPA thru the front bumper, driver's side, ouboard of the frame rail. The air horn shall be plumbed to the chassis, air supply system thru an air protection valve, and manufactured from spun brass material with an easily separated die cast sounding unit for serviceability.

AIR HORN FOOT SWITCHES

Two-(2) foot operated switches shall be installed, one (1) on each side on the driver and officer's side wired to the air horn(s).

The driver's side switch shall be located on the front fire wall.

SPEAKER, DRIVER'S SIDE

There shall be one-(1) speaker shall be installed thru the front face of the bumper, driver's side, outboard.

The speaker shall be a Cast Products SA2401, 100-watts wired to the electronic siren.

CHROME BELL

An electric chrome bell with decorative eagle shall be mounted on the extended front bumper as directed by the Fire Department. The bell shall be activated by a switch in the cab.

The bell shall be located on the passenger's side of extended front bumper.

The control shall be located in the officer's dash panel.

FRONT GRILLE

The front grille shall be a mirror polished stainless steel box style assembly with 448 square inches of open area. The grille shall measure 48" wide x 23.13" high x 1.56" deep.

The front grille shall be personalized that reads WESLACO with backlit LED lights activated by the battery on/off switch.

HEATED/REMOTE CAB MIRRORS

Two side-mounted rear view mirrors shall be installed with a 14.5" X 7" mirror head and a separate 6" x 8" parabolic mirror. The mirror head shall be heated and remotely adjustable by the driver. The mirrors shall be aerodynamically designed to reduce wind buffeting and resultant vibration. The housings shall be a finished black in color.

The mirrors support tubes shall be 7/8" stainless steel, with breakaway mounting brackets.

The cab mirror rear housings shall be painted job color.

EQUIPMENT MOUNTING PLATE, ENGINE TUNNEL

There shall be one-(1) equipment mounting plate installed on the engine tunnel with 45-degree bends on the driver and officer sides constructed of 3/16" smooth aluminum plate covered with "F-Shield".

“F-Shield” is a 100% solids, state-of-the art, VOC-free, plural-component, pure polyuria elastomeric membrane. This seamless system exhibits extraordinary performance characteristics. F-Shield is based on amine-terminated polyether resins, amine chain extenders and MDI pre-polymers. This membrane achieves an extremely tough, flexible, chemical and abuse resistant finish. F-Shield shall be used in specified areas for maximum protection.

PAC-TRAC TOOL BOARD(S)

Two (2) Pac-Trac tool board(s) shall be installed in the cab for the mounting of additional equipment. The tool board slats shall be provided with Trac Lock inserts and fasteners.

There shall be a tool board, one-(1) each side on the rear cab wall, outboard the EMS compartment.

CUSTOM CONSOLE

A custom console shall be fabricated and installed on the engine tunnel. The console shall have a map book storage area with a hinged lid. The front of the console shall be equipped with a center storage slot for medical gloves and a cup holder on each side. The console shall be constructed of smooth aluminum painted with F-Shield to match the interior of the cab.

RADIO

A Jensen radio with weather band, AM/FM stereo receiver, compact disc (CD) player, and rear iPod input pigtail connector, satellite radio capability, a front panel mini stereo input jack, and four (4) speakers shall be installed in the cab. The CD player shall be compatible with CD-R, CD-RW and MP3 format discs. The radio shall be installed in the left hand overhead position. The speakers shall be installed inside the cab with two (2) speakers recessed within the headliner of the front of the cab just behind the windshield and two (2) speakers on the upper rear wall of the cab.

A small antenna shall be located on the left hand side of the cab roof for AM/FM and weather ban reception.

BACK UP CAMERA SYSTEM

One-(1) Hanscom model HC-7211 color camera system shall be installed on the vehicle. The system shall be wired to the vehicles 12 volt electrical system. The color monitor shall be installed in the cab in easy reach of the driver while in the seated position. The color camera shall be installed facing rearward giving a clear and unobstructed view behind the rear of the vehicle. The system shall activate when the transmission is shifted into the reverse position. A switch mounted on the monitor shall activate the system regardless of the transmissions shift position.

The system shall consist of the following components:

- One 7" LCD TFT (HC703M) color monitor with two camera inputs and built in speakers
- One color camera model HC-IR250 weather and vibration proof housing with built in microphone
- 35' to 70' extension cable

ADDITIONAL CAMERA, DUNNAGE AREA

One-(1) Hanscom model HC-SC45 upper view camera shall be installed in the dunnage area of the vehicle wired to the monitor. The camera shall be equipped with night vision and audio.

ADDITIONAL CAMERA, OFFICER'S SIDE

One-(1) Hanscom model HC-SC45 side view camera shall be installed on the right front cab corner side of the vehicle wired to the monitor. The camera shall be equipped with night vision and audio.

SAFETY SIGNS, GENERAL REQUIREMENTS

Safety signs with text shall conform to the general principles of ANSI/NEMA Z535.4, *Product Safety Signs and Labels*. Safety signs without text shall conform to the general principles for two-panel safety signs of ISO 9244, *Earth-Moving Machinery - Machine Safety Labels*.

Apparatus built for sale in the United States shall employ safety signage that complies with ANSI/NEMA Z535.4.

Apparatus built for sale outside the United States shall employ safety signage that complies with ANSI/NEMA Z535.4 or ISO 9244.

Safety signs referenced in this standard beginning with the letters FAMA shall conform to the text and graphics of the referenced safety sign number found in FAMA TC010, *Standard Product Safety Sign Catalog for Automotive Fire Apparatus*.

CARRYING CAPACITY PLATE

A permanently attached carrying capacity plate in accordance with the current NFPA 1901 Standards shall be installed in plain view of the driver.

The tag shall include the following:
Overall height
Overall length
GVWR
Seating capacity

SAFTEY SIGNS, SEATED & BELTED

Safety signs FAMA07, which warns of the importance of seat belt use, shall be visible from each seat that is intended to be occupied while the vehicle is in motion.

SAFETY SIGN, CAB EQUIPMENT MOUNTING

A safety sign FAMA10, which warns of the need to secure items in the cab, shall be visible inside the cab.

SAFTEY SIGN, FIRE SERVICE TIRE RATING

A safety sign FAMA12, which warns of the special requirements for fire service–rated tires, shall be visible to the driver entering the cab of any apparatus so equipped.

SAFETY SIGN, CAB SEATING

A safety sign FAMA14 shall be located in the cab visible to the operator.

The sign shall read:
This vehicle has a seating capacity of __ personnel.

Carrying additional personnel may result in death of serious injury.

SAFTEY SIGNS, HELMET WORN IN CAB

A safety sign FAMA15, which warns not to wear helmets while the vehicle is in motion, shall be visible from each seat that is intended to be occupied while the vehicle is in motion.

SAFETY SIGNS, CLIMBING METHOD INSTRUCTION

Safety signs FAMA23, which warns of the proper climbing method, shall be visible to personnel entering the cab and at each designated climbing location on the body.

SAFETY SIGNS, RIDING ON EXTERIOR

Safety signs FAMA24, which warns personnel not to ride on the vehicle, shall be located at the rear step areas and at any cross walkways.

PLATE, OVERALL HEIGHT/LENGTH/WEIGHT

An Overall Height/Length/Weight information plate shall be installed that can be clearly identified and visible to the driver while in the seated position showing the apparatus completed overall height, length, (in feet and inches) and gross vehicle weight (in tons) current to the apparatus manufactured date.

If changes to the vehicle occur while in service, the department must revise the overall height-length-weight plate.

PLATE, FLUID CAPACITY

A permanently affixed fluid date plate shall be installed in the driving compartment to indicate the type and quantities of the following fluid used in the vehicle.

- Engine Oil
- Engine Coolant
- Chassis Transmission Fluid
- Pump Transmission Lubrication Fluid (if applicable)
- Pump Primer Fluid (if applicable)
- Drive Axle Lubrication Fluid
- Air Conditioning Refrigerant
- Air Conditioning Lubrication Oil
- Power Steering Fluid
- Cab Tilt Mechanism Fluid
- Transfer Case Fluid
- Equipment Rack Fluid
- Air Compressor System Lubricant
- Generator System Lubricant
- Front Tire Pressure - Cold
- Rear Tire Pressure - Cold

The following information shall also be supplied on the Fluid Data Plate:

- Chassis Manufacturer

- Production Number
- Paint Number
- Year Built
- Date Shipped
- Vehicle Identification Number

SAFETY SIGN, APPARATUS MOVEMENT

A permanently affixed movement warning plate shall be installed near the door ajar light that reads:

"DO NOT MOVE APPARATUS WHEN LIGHT IS ON".

== Pump Enclosure - SM Extruded - MVP - 1606.001 06/03/16 ==

PUMP ENCLOSURE, SIDE CONTROL

The pump enclosure superstructure shall be constructed of aluminum tubing, channel, angle, and break-formed components. The framework shall be formed by beveled aluminum alloy extrusions and electrically seam welded both internally and externally at each joint using 5356 aluminum alloy welding wire. The main, frame work shall be constructed of 3.00 x 3.50, 6063-T6 aluminum extrusions. The break-formed components shall be constructed from 3/16" (1.875) aluminum.

The crossmembers support the substructure and the exterior panels independently from the cab and body. The crossmembers shall be isolated from the frame rails using torsion mounts. The pump enclosure shall be supported at the top of the frame rails, in a minimum of four-(4) places. The module shall be secured with angle brackets bolted to both the pump enclosure support cross rails and the side of the chassis frame rails. This design is required to eliminate shifting and stress on the pump enclosure, pump panels, and running boards.

The front of the pump module shall be covered with aluminum tread plate to keep road debris from the front of the pump.

Any pump enclosure constructed using any material other than aluminum or utilizing any other mounting method is not acceptable.

MVP ENCLOSED PUMP MODULE

The pump compartment shall be at the forward section of the body, integral with the remainder of the structure. Pump panels on both sides of the vehicle shall be concealed by roll up doors. This design is required to minimize the effects of the elements on the pump panel components and to maximize usable compartment space on the apparatus.

The forward section of the pump compartment shall be readily accessible for easy service on the pump and plumbing. Removal of the speedlay reloading trays shall allow full access to the pump compartment. Removal of the backboard storage sleeve shall further improve the service access.

Speedlays shall be located ahead of the pump compartment, with one-(1) 1-3/4” and one-(1) 2-1/2" located at frame rail height, approximately 43” above street level and one-(1) 1-3/4” located above the rear 2-1/2” speedlay. The forward

1-3/4” speedlay shall be located under the cab notch.

The pump enclosure shall provide an area above the pump for the installation of deck gun plumbing in the dunnage area.

DUNNAGE AREA W/ TREADPLATE WALLS

There shall be an open area above the pump enclosure for equipment storage trimmed with 1/8" (.125) aluminum tread plate on all vertical interior walls.

PUMP PANELS

The operator's controls and gauges shall be mounted on pump panels constructed of 1/8" (.125) black anodized, non-glare aluminum. No vinyl coverings shall be acceptable as these surfaces are subjected to rough service and vinyl is susceptible to tearing.

All gauges and controls shall be properly identified with color-coded metal tags. The tags shall be affixed with 3M brand industrial adhesive. The gauges shall be functionally grouped above each control.

The right side panel shall be vertically hinged and shall have push style latches for pump compartment access.

The right side panel shall be constructed of 1/8" (.125) black anodized, non-glare aluminum.

All instruments and controls shall be provided and installed as a group at the pump panel. The central midpoint or centerline of any valve control shall be no more than 72" vertically above the ground or platform that is designed to serve as the operator's standing position. The instruments shall be placed to keep the pump operator as far as practical from all discharge and intake connections and in a location where they are readily visible and operationally functional while the operator remains stationary.

A safety sign FAMA25, which warns of the need for training prior to operating the apparatus, shall be located on the pump operators panel.

FULLY HINGED PUMP PANEL, RIGHT SIDE

One-(1) vertically hinged pump panel with push style latch shall be installed and constructed of the same material as stated in the pump module specifications. The hinged panel replaces the current right hand lower removable panel for ease of access to the pump compartment during routine maintenance.

PUMP PANEL LIGHT, LEFT SIDE

One-(1) individual OnScene Access LED pump panel light with on/off switch shall be mounted under the light shield left side. For optimum visibility during nighttime operations, the light shall be mounted as high as possible.

PUMP PANEL LIGHT, RIGHT SIDE

One-(1) individual OnScene Access LED pump panel light with on/off switch shall be mounted under the light shield right side. For optimum visibility during nighttime operations, the light shall be mounted as high as possible.

LIGHTS, PUMP COMPARTMENT

One-(1) compartment light shall be installed in the pump compartment for inspection or routine maintenance wired to the pump panel light switch.

PUMP OPERATOR'S PLATFORM(S)

Two (2) slide-out platform(s) shall be installed under the operator's panel constructed from 3/16” (.1875) aluminum tread plate. Two-(2) sealed roller bearing slides, with a total capacity of 500lbs shall be installed one-(1) each side of the platform mechanically held in both the retracted and extended positions with a rugged quick-action latch. The slide-out platform shall be wired to the open door indicator system activating the light in the cab when the step is in the extended position.

AIR OUTLET, PUMP PANEL

There shall be an air outlet with a valve installed on the pump panel. There shall be a 25' of .375" utility type air hose with "quick release" type fittings compatible with those on the apparatus provided. This shall be plumbed into the chassis air system.

AIR HORN SWITCH, PUMP PANEL

A push button momentary switch mounted on the pump panel shall activate the chassis air horn(s).

PRESSURE GOVERNOR

The apparatus shall be equipped with a Class1 “Total Pressure Governor Plus” (TPG+) Model 118719 that is connected to the Engine Control Module (ECM) mounted on the engine. The “TPG+” shall operate as a pressure sensor (regulating) governor (PSG) utilizing the engine’s J1939 data for optimal resolution and response when supported by the engine manufacturer. If J-1939 engine control is not supported, then analog remote throttle control shall be provided by the “TPG+”. The “TPG+” shall function as a Master Pump Discharge and Intake Gauge.

The TPG+ shall utilize control algorithms that minimize pressure spikes during low or erratic water supply situations. The “TPG+” shall be backwards compatible to any engine that supplies J1939 RPM, Temperature and Oil Pressure information providing the ability to maintain a consistent fleet fire-fighting capability and reduce operator cross training and confusion.

The “TPG+” shall have the ability to use either a 300 or a 600-PSI discharge pressure transducer and a 300-PSI intake pressure transducer. The PSG system diagnostics shall be built in and accessible by technicians. Programmable presets for RPM and Pressure settings shall be easily configurable. The straightforward menu structure shall allow the “TPG+” configuration to match existing apparatus operation as closely as possible.

The “TPG+” shall also include indication of engine RPM, system voltage, engine oil pressure, and engine/transmission temperature with audible alarm output for all. The “TPG+” uses the J1939 data bus for engine information, requiring no additional sensors to be installed. The TPG+ shall monitor and display pump and engine hours. The “TPG+” shall use J1939 broadcast warnings for the alarm as a standard and allow the “user” to select warning values if “SOP’s” dictate.

PRESSURE GAUGES, 2-1/2"

The discharges shall be provided with 2-1/2" pressure gauges. The discharge gauges shall be liquid filled with a solution to assure visual readings and reduce inner lens condensation. The body of the gauges shall be constructed of Zytel nylon with chrome-plated bezels. The face of the gauges shall be Spun Metal with black background and white markings reading from zero to 400 PSI.

The gauges shall be installed at each discharge control on the pump operator's panel. On side mount pump applications with push pull handles each gauge shall incorporate a Thuemling Instrument Group 1-piece module assembly consisting of the gauge, push-pull and trim bezel.

The pressure gauges shall maintain performance of all features and be free from defects in material and workmanship which includes fluid fill leakage and discoloration for seven years.

GAUGE BEZELS, COLOR CODED

The pump panel master and pressure gauge bezels shall be color coded.

PUMP PANEL TAGS

All discharges, gauges, and controls will be properly identified by color-coded metal tags. The metal tags will be affixed with 3M industrial adhesive.

PUMP SYSTEM, HALE QMAX SINGLE STAGE

PUMP ASSEMBLY

The entire pump shall be cast, manufactured, and tested at the pump manufacturer's factory.

The pump shall be driven by a driveline from the truck transmission. The engine shall provide sufficient horsepower and RPM to enable pump to meet and exceed its rated performance.

The entire pump, both suction and discharge passages, shall be hydrostatically tested to a pressure of 600 PSI. The pump shall be fully tested at the pump manufacturer's factory to the performance specs as outlined by the latest NFPA Pamphlet No. 1901. The pump shall be free from objectionable pulsation and vibration.

The pump body and related parts shall be of fine grain, cast iron alloy, with a minimum tensile strength of 30,000 PSI. All moving parts in contact with water shall be of high quality bronze or stainless steel. Pump utilizing castings made of lower tensile strength cast iron not acceptable.

Pump body shall be horizontally split, on a single plane, in two sections, for easy removal of entire impeller assembly including wear rings and bearings from beneath the pump without disturbing piping or the mounting of the pump in chassis.

The pump shall have one double suction impeller. The pump body shall have two opposed discharge volute cutwaters to eliminate radial unbalance.

Pump shaft to be rigidly supported by three bearings for minimum deflection. One high lead bronze sleeve bearing shall be located immediately adjacent to the impeller (on side opposite the drive unit). The sleeve bearing is to be lubricated by a force-fed, automatic oil lubricated design, pressure balanced to exclude foreign material. The remaining bearings shall be heavy-duty, deep groove ball bearings in the gearbox and they shall be splash lubricated.

The pump impeller shall be hard, fine grain bronze of the mixed flow design; accurately machined, hand-ground and individually balanced. The vanes of the impeller intake eyes shall be hand ground and polished to a sharp edge, and be of sufficient size and design to provide ample reserve capacity utilizing minimum horsepower.

The impeller clearance rings shall be bronze, easily renewable without replacing impeller or pump volute body, and of wraparound double labyrinth design for maximum efficiency.

The pump shaft shall be heat-treated, electric furnace, corrosion resistant, stainless steel, to be super-finished under packing with galvanic corrosion (zinc separators in packing) protection for longer shaft life. Pump shaft must be sealed with double lip oil seal to deep road dirt and water out of drive unit.

DRIVE UNIT

The drive unit shall be cast and completely manufactured and tested at the pump manufacturer's factory.

Pump drive unit shall be of sufficient size to withstand up to 16,000 ft. Lbs. Torque of the engine in both road and pump operating conditions. The drive unit is designed with ample capacity for lubrication reserve to maintain proper operating temperature.

The gearbox drive shafts shall be of heat-treated chrome nickel steel and at least 2-3/4" in diameter, on both the input and output drive shafts. They shall withstand the full torque of the engine in both road and pump operating conditions.

All gears drive and pump, shall be of highest quality electric furnace, chrome nickel steel. Bores shall be ground to size and teeth integrated, crown-shaved and hardened, to give an extremely accurate gear for long life, smooth, quiet running, and higher load carrying capability. An accurately cut spur design shall be provided to eliminate all possible end thrusts.

The pump ratio shall be selected by the apparatus manufacturer to give maximum performance with the engine and transmission selected.

If drive unit is equipped with a power shift, the shifting mechanism shall be a heat-treated, hard-anodized aluminum power cylinder, with stainless steel shaft. An in-cab control for rapid shift shall be provided that locks in road or pump.

Three warning lights with plates shall be provided to alert the operator when the drive unit has fully shifted from road to pump position. Two lights shall be located on the cabs instrument panel and the other on the pump panel adjacent to the throttle.

A 3" clapper check valve shall be installed between the suction side of the pump and the tank-to-pump valve. This 3" clapper valve shall remove the possibility of a water surge expanding the booster tank.

Pump system shall have an integral discharge manifold system that allows a direct flow of water to all discharge valves.

PACKING GLANDS

The pump shaft shall have only one packing gland located on the inlet side of the pump. It shall be of split design for ease of repacking. The packing gland must be a full circle threaded design to exert uniform pressure on packing and to prevent "cocking" and uneven packing load when it is tightened. It shall be easily adjusted by hand with rod or screwdriver, with no special tools or wrenches required. The packing rings shall be of a unique, permanently lubricated, long life graphite composition and have sacrificial zinc foil separators to protect the pump shaft from galvanic corrosion.

PUMP SHIFT

An air operated pump shift shall be installed in the chassis cab to engage the fire pump. Provisions shall be made for placing the pump drive system in operation using controls and switches that are clearly identified and within convenient reach of the operator while in the cab.

A green indicator light shall be installed on the cab dash and labeled "Pump Engaged".

Where an automatic chassis transmission is provided, a green indicator light in the driving compartment and a green indicator light located at the pump operator's position shall be provided and shall be energized when both the pump shift has been completed and the chassis transmission is engaged in pump gear.

The light in the driving compartment shall be labeled "OK TO PUMP". The light on the pump operator shall be positioned adjacent to and preferably above the throttle control and shall be labeled "Warning: DO NOT OPEN THROTTLE UNLESS LIGHT IS ON". The green light on the pump operator's panel shall be energized when the pump is engaged, the transmission is in drive, and the parking brake is set.

PRIMING SYSTEM, PUMP

A Trident Model 31.011.0 automatic air operated priming system shall be installed. The unit shall be of all brass and stainless steel construction and designed for fire pumps of 1,250 GPM (4,690 LPM) or more. Due to corrosion exposure no aluminum or vanes shall be used in the primer design. The primer shall be three-barrel design with direct connection to the fire pump. The primer shall automatically drain when the panel control actuator is not in operation.

The primer shall be mounted above the pump impeller so that the priming line will automatically drain back to the pump. The primer shall also automatically drain when the panel control actuator is not in operation. The inlet side of the primer shall include a brass ‘wye’ type strainer with removable stainless steel fine mesh strainer to prevent entry of debris into the primer body.

Performance, Safety, and NFPA Compliance
The priming system shall be capable to a vertical lift to 22 inches of mercury and shall be fully compliant to applicable NFPA standards for vertical lift. The system shall create vacuum by using air from the chassis air brake system through a two-barrel multi-stage internal "venturi nozzles" within the primer body. The noise level during operation of the primer shall not exceed 75 Db.

Air Flow Requirements
The primer shall require a minimum of 15.6 cubic foot per minute air compressor and shall be capable of meeting drafting requirements at high idle engine speed. The air supply shall be from a chassis supplied 'protected' air storage tank with a pressure protection valve. The air supply line shall have a pressure protection valve set between 70 to 80 PSIG.

Automatic Primer Control and Vacuum Gauge Panel
The 12 volt primer control shall be an "automatic" type, with a pump panel three-way switch to operate an air solenoid valve. The air valve shall direct air pressure from the air brake system to the primer. To prevent freezing, no water shall enter the primer valve control.

A vacuum gauge 2" in diameter, with graduations from zero to 30 feet, shall be installed in the primer control panel. The gauge shall be physically connected to the vacuum side of the primer and read only when the primer is running so it will never see or be subject to damage from high pump intake pressures.

The automatic priming switch shall have three positions as follows:
"Prime" – the lower position shall be a momentary "push to prime". The "Prime" position also allows the operator to "ramp" test the primer without the fire pump being engaged.

"Off" -- center position

"Auto-Prime" – in the upper position, a "green" LED pilot light shall be illuminated when the switch is the auto-prime position. The "Auto-Prime" operates automatically when the pump pressure drops below 20 PSIG. The primer shuts "off" automatically when the pump pressure is re-established and exceeds 20 PSIG. The "Auto" mode only operates when the fire pump is engaged.

Power Requirements
To reduce the electrical power requirements on the fire apparatus the priming system shall be air powered. The system shall not require annual tear-down and maintenance, an electric motor, lubrication, belt drive, or clutch assembly. The maximum current draw shall not exceed 0.5 amps during operation.

Warranty
The primer shall be covered by a five-(5) year parts warranty.

VALVE, MASTER DRAIN

There shall be a master drain valve recessed mounted below the pump module under the side running board, connecting all drain lines, with the capacity to discharge water simultaneously from all locations to below the chassis frame rails.

VALVE, INDIVIDUAL DRAIN

All lines shall drain through the master drain valve or shall be equipped with individual drain valves, easily accessible and labeled.

One-(1) individual quarter turn drain valve shall be furnished for each 1-1/2" or larger discharge port and each 2-1/2" gated auxiliary suction.

The drain/bleeder valves shall be located at the bottom of the side pump module panels.

All drains and bleeders shall discharge below the running boards.

U.L. TEST POINTS

An Underwriters Laboratories approved engine speed counter shall be located on the pump panel to provide a means to certify the tachometer. In addition, two (2) U.L. test plugs shall be pump panel mounted for testing of vacuum and pressures.

U.L. CERTIFICATION, 2000 GPM

The vehicle shall be third party tested and certified by Underwriters Laboratories, Inc. UL testing is recognized as a leading, third party, product safety certification organization for over 100 years. UL has served on the NFPA (National Fire Protection Association) technical committee for over thirty-(30) years.

The testing organization must meet the following minimum requirements:

- Must be nationally recognized testing laboratory recognized by OSHA
- Must comply with the ASTM (American Society for Testing Materials) standard E543 "Determining the qualifications for nondestructive testing agencies"
- Must have more than forty (40) years of Automotive Fire Apparatus safety testing experience and more than fifteen (15) years of factory aerial device testing and Certification experience
- Must not represent, be associated with, or in the manufacture or repair of automotive fire apparatus
- Must provide proof of ten-(10) million dollars in excess liability insurance for bodily injury and property damage combined

The pump shall meet and perform the following test to receive a U.L. Certification.

- 100% of rated capacity at 150 PSI net pump pressure
- 100% of rated capacity at 165 PSI net pump pressure
- 70% of rated capacity at 200 PSI net pump pressure
- 50% of rated capacity at 250 PSI net pump pressure

PUMP TEST CERTIFICATION PLATE

A permanently affixed plate shall be installed at the pump operator's panel. It shall provide the rated discharge and pressures together with the speed of the engine as determined by the certification test for each unit. It shall also provide the position of the parallel/series pump used and the no load governed speed of the engine as stated by the engine manufacturer on a certified brake horsepower curve.

A label shall be provided on the pump operator's panel that states the following:
"Warning: Death or serious injury might occur if proper operating procedures are not followed". The pump operator as well as individuals connecting supply or discharge hoses to the apparatus must be familiar with water hydraulics hazards and component limitations.

SUCTION HEADERS

A short 6" NST gated suction header with removable screen, and long handled cap shall be provided on the left side of the pump.

There shall be a Hale Model MIV-Manually operated intake valve with indicator light package provided on the suction of the pump. The valve shall have a bronze body with sealed gear drive and built in pressure relief valve. A bleeder valve shall also be provided.

A short 6" NST gated suction header with removable screen, and long handled cap shall be provided on the right side of the pump.

There shall be a Hale Model MIV-Manually operated intake valve with indicator light package provided on the suction of the pump. The valve shall have a bronze body with sealed gear drive and built in pressure relief valve. A bleeder valve shall also be provided.

INTAKE RELIEF VALVE

There shall be an Akron model 59 suction side relief valve provided in the pump system. The relief valve is adjustable from 50-175 psi and set at the factory at 125 psi.

TANK TO PUMP

One (1) 3” ball valve shall be installed between the pump and the water tank. The tank to pump valve shall be a quarter turn, fixed pivot design constructed from bronze. The valve shall be air operated from the pump operator's control panel.

TANK FILL

There shall be a 2" pump to tank fill line installed, with a 2" inline bronze valve and high-pressure flexible hose tested to 1200 PSI. The valve shall be electrically controlled from the pump operator’s panel.

ENGINE COOLER

The engine cooler shall be installed in-line from the discharge side of the pump, and installed in the engine cooling system. There shall be a 1/2", quarter turn valve installed thru the pump panel and shall be clearly labeled.

PUMP COOLER

The pump shall have a 3/8" line installed from the pump discharge, to the water tank to cool the pump during long periods of pumping when water is not being discharged. The pump cooler shall be controlled from the pump operators panel by a 3/8" valve consisting of a cast bronze body with 1/4 turn chrome plated bronze ball, reinforced Teflon seals, and blow-out-proof stem rated to 600 PSI.

The valve shall be installed thru the pump panel and clearly labeled.

PLUMBING SYSTEM

All suction and discharge lines of 2" or larger shall be constructed of a minimum of Schedule 40 galvanized steel pipe, where vibration or chassis flexing may damage or loosen threaded pipes, Victaulic or Roustabout couplings shall be used. All suction and discharge outlets shall have National Standard Threads (NST) and designed for 500 PSIG including, valves, drain cocks, lines, intake, and outlet closures, excluding the tank fill and tank to pump lines (tank side of the valves).

STAINLESS STEEL FOAM MANIFOLD

The foam manifold shall be constructed of stainless steel.

PUMP PAINTING

The pump shall be painted black in color.

AKRON ELECTRIC CONTROL VALVE PACKAGE

All discharge valves shall be Akron Heavy-Duty Swing-Out electrically controlled from the pump operator's panel unless otherwise specified.

Akron Swing-Out Heavy-Duty valves are designed for operating pressures to 250 psi (17 bars)

- 10-year warranty against manufacturer's defects
- Available in 1" to 4" sizes
- 90° handle travel 316 stainless steel ball with Hydromax technology
- Improved sealing & increased gating ability
- Flow optimization reduces turbulence while in the gated position and requires lower operating forces
- No lubrication or regular maintenance required
- Simple two seated design (no O-Rings to cut or lose during assembly or maintenance)
- Wide range of available adapters

- Designed and tested to exceed NFPA requirements
- Cast, machined and assembled at our facilities in Wooster, Ohio

All valve packages shall meet current NFPA 1901 Standards for valve operating speeds when controlled by gear, electric actuator, or slow close device.

SUCTION, 2-1/2" LEFT REAR PANEL

One-(1) 2-1/2" swing operated ball valve shall be installed at the pump panel, left rear plumbed to the suction side of the pump with 2-1/2" piping, 2-1/2" FNST chrome inlet swivel, brass inlet strainer, chrome plug with chain, and 3/4" drain valve.

A warning plate permanently affixed in close proximity of the suction inlet shall be installed stating:

"WARNING - SERIOUS INJURY OR DEATH COULD OCCUR IF INLET IS SUPPLIED BY A PRESSURIZED SOURCE WHEN THE VALVE IS CLOSED".

DISCHARGE ELBOWS

All 2-1/2" side discharge outlets shall terminate with chrome-plated 30-Degree elbows with 2-1/2" MNST threads, chrome vented cap and chain.

Caps shall automatically release pressure in the discharge outlet before the threads are completely disengaged unless the outlet and the cap are equipped with drains or bleeder valves.

FRONT BUMPER DISCHARGE

There shall be one-(1) front discharge installed thru the gravelshield passenger's side outboard of the frame rail.

The front bumper discharge shall terminate 2" NPT x 1-1/2" NST with a 90-degree swivel. One-(1) 2" brass valve with 3/4" drain shall be installed on the discharge side of the pump plumbed to the front swivel with flexible high-pressure hose and victaulic stainless steel couplings tested to 1200 PSI, the front discharge shall be electrically controlled at the pump operator's panel.

A tread plate stop shall be provided preventing the front bumper discharge swivel from incidental contact with the cab.

EXTRA LOW SPEEDLAYS

In the interest of firefighter safety, the preconnected hose lines shall be mounted as low as possible. There shall be one (1) 1-3/4" speedlay and one (1) 2 ½" speedlay at frame rail height and one (1) 1 3/4" speedlay over the rear 2 1/2" speedlay. The floor of the lower speedlays shall be approximately 43" above street level, 99" across.

NO. 1 SPEEDLAY, 1-3/4" DOUBLE LAY

One-(1) pre-connected speedlay compartment shall be provided ahead of the side mount operator's panel accommodating 200' of 1-3/4" double jacket hose, with stainless steel nylon guided rollers installed at each end, and stainless steel scuff plates around the perimeter of the speedlay protecting the painted surfaces.

One-(1) 2" ball valve with 3/4" drain and Chicksan swivel shall be provided plumbed to the speedlay with 2" high-pressure flexible hose stainless steel couplings tested to 1200 PSI, the valve shall be electrically controlled at the pump operator's panel.

Each discharge is equipped with a quarter-turn drain valve.

NO. 2 SPEEDLAY, 1-3/4" DOUBLE LAY

One-(1) pre-connected speedlay compartment shall be provided ahead of the side mount operator's panel accommodating 200' of 1-3/4" double jacket hose, with stainless steel nylon guided rollers installed at each end, and stainless steel scuff plates around the perimeter of the speedlay protecting the painted surfaces.

One-(1) 2" ball valve with 3/4" drain and Chicksan swivel shall be provided plumbed to the speedlay with 2" high-pressure flexible hose stainless steel couplings tested to 1200 PSI, the valve shall be electrically controlled at the pump operator's panel.

Each discharge is equipped with a quarter-turn drain valve.

NO. 3 SPEEDLAY, 2-1/2" DOUBLE LAY

One-(1) pre-connected speedlay compartment shall be provided ahead of the side mount operator's panel accommodating 200' of 2-1/2" double jacket hose, with stainless steel nylon guided rollers installed at each end, and stainless steel scuff plates around the perimeter of the speedlay protecting the painted surfaces.

One-(1) 2-1/2" ball valve with 3/4" drain and Chicksan swivel shall be provided plumbed to the speedlay with 2-1/2" high-pressure flexible hose stainless steel couplings tested to 1200 PSI, the valve shall be electrically controlled at the pump operator's panel.

Each discharge is equipped with a quarter-turn drain valve.

REMOVABLE SPEEDLAY HOSE TRAYS

There shall be three-(3) removable, speed lay hose trays provided with the apparatus constructed of 3/16" smooth aluminum with handles at each end held in place by horizontal bulkheads at each end of the compartments.

SPEEDLAY COVERS

Three-(3) Hypalon speedlay covers shall be provided one each side of the apparatus secured with Velcro sides and stainless steel bottom pushpins preventing hose from inadvertently deploying during normal operations meeting the current NFPA requirements.

A safety sign FAMA22, which warns of the need to secure hose, shall be visible to personnel at the hose storage area.

The end flaps shall be red in color.

DISCHARGE, 2-1/2" LEFT FRONT PANEL

One-(1) Akron 2-1/2" Heavy-Duty ball valve with 3/4" drain shall be installed at the pump panel left front plumbed to the discharge side of the pump electrically controlled from the pump operator's panel.

DISCHARGE, 2-1/2" LEFT REAR PANEL

One-(1) Akron 2-1/2" Heavy-Duty ball valve with 3/4" drain shall be installed at the pump panel, left rear, plumbed to the discharge side of the pump electrically controlled from the pump operator's panel.

DISCHARGE, 3" RIGHT FRONT PANEL

One-(1) Akron 3" Heavy-Duty (Slo-Close) ball valve with 3/4" drain shall be installed at the pump panel, right front, plumbed to the discharge side of the pump equipped with 3" NST threads chrome cap and chain electrically controlled at the pump operator's panel.

DISCHARGE, 2-1/2" RIGHT REAR PANEL

One-(1) Akron 2-1/2" Heavy-Duty ball valve with 3/4" drain shall be installed at the pump panel, right rear, plumbed to the discharge side of the pump electrically controlled from the pump operator's panel.

DECK GUN PLUMBING, 3"

One-(1) Akron 3" Heavy-Duty (Slo-Close) inline valve with 3/4" drain shall be plumbed to the Deck Gun discharge outlet with 3" pipe terminating 3" FNPT x four-(4) bolt flange electrically controlled at the pump operator's panel.

TELESCOPING MONITOR PIPE

Task Force Tips model XG18VL-PL manually telescoping waterway shall be installed. The waterway shall be capable of being lowered to deck level (or into a monitor well) for storage and transportation and shall be capable of being raised to an extended height of 18" by lifting a quick release latch located at the base of the extension tube. This latching device shall be capable of locking the waterway in either the raised or lowered position while maintaining the ability to horizontally rotate the monitor device 360 degrees.

A sensor shall be located on the waterway that signals a 12 volt indicator light installed in the cab to illuminate to indicate that the monitor is raised.

The aluminum riser shall have a 3" waterway; hardcoat anodized finish and be furnished with a 3" Victaulic inlet and a 3" male NPT outlet. The unit shall be covered by a five-year warranty.

ELECTRIC MONITOR

An Akron Brass model 3440 shall be provided. The 1250 gpm rated monitor is to be an all electric single waterway monitor with automated elevating capability, 3" 150 pound flange inlet, 2.5" NH threaded outlet, cast-in turning vanes in each elbow, constructed of lightweight Pyrolite. The monitor shall have fully enclosed 12 volt motor and gears with manual override for horizontal, vertical, and elevation rotation. The monitor is not to exceed 17" high in the stow position. The waterway will elevate to a height of 24" above the base of the flange with a single push of a button. The outlet shall have a vertical elevation of 45° below horizontal to 90° above horizontal and 344° of horizontal rotation will be achievable with adjustable stops. The logic box shall include coated, solid state components to resist water corrosion and include a set of DIP switches for built in options. Each control box shall control the vertical and horizontal position of the monitor, along with the pattern of the nozzle. The control box will have a toggle switch with guard to move the monitor into the stowed or deployed position. The control panel will have a light to indicate when the monitor is out of the stowed position and diagnostic for trouble shooting with provisions for a second light in the vehicle cab. The stow and deploy position can be easily reprogrammed by the end user.

An Akron Brass item 15770001 electrically controlled combination solid stream and fog nozzle shall be provided. The nozzle shall be constructed of Pyrolite, with a 2” orifice solid bore, and a fog flow of 1250 gpm at 80 psi. The nozzle shall have a 12 volt electric motor, a 2.5” NH swivel inlet, and built-in stream shaper, and shall not exceed 14 13/16” in length or 24 lbs, in weight.

PRECONNECT, 2-1/2" RIGHT FRONT HOSEBED

One-(1) 2-1/2" discharge shall be installed in the hosebed, right front, plumbed with an Akron 2-1/2" Heavy-Duty ball valve with 3/4” drain terminating 2-1/2" FNPT x 2-1/2" MNST chrome cap and chain electronically controlled at the pump operator's panel.

FOAM SYSTEM

There shall be a Foam Pro 1600 fully automatic, variable speed, electronic direct injection, discharge side foam proportioning system furnished and installed on the apparatus. The system shall be capable of Class A foam concentrate **ONLY**. The proportioning operation shall be based on an accurate direct measurement of water flows with no water flow restriction. The foam system shall be installed in accordance with the manufacturer recommendations. System must be capable of delivering accuracy to within 3% of calibrated settings over the advertised operation range with installed. The system shall be equipped with a control module suitable for installation on the pump panel. Incorporated within the motor driver shall be a microprocessor that receives input from the system flowmeter, while also monitoring the foam concentrates pump output, comparing values to endure that the operator preset proportional amount of foam concentrate in injected into the discharge side of the fire pump. A paddlewheel type flow meter shall be installed in the discharge system specified to be "foam capable".

The system shall be equipped with a control module. It shall be installed on the pump operators panel and enable the pump operator to perform the following functions:

- Activate the foam system
- Change foam concentrate proportioning rates from 0.1% to 1.0%

- Flash a "Low Concentrate" warning light when the foam concentrate and in two (2) minutes if foam concentrate is not added to tank shut the foam concentrate pump down

The foam system shall have a 12-volt electric motor driven positive displacement plunger pump shall be provided. The pump capacity shall be 1.7 GPM with operating pressure up to 200 PSI with a maximum operating pressure up to 400 psi. The system shall draw a maximum of 30 amps at 12VDC. The motor shall be controlled by the microprocessor mounted to the base of the pump. It receives it signal from the control module and power the 1/3 HP electric motor in a variable speed duty cycle to ensure the correct proportion of concentrate is injected into the water system. A full flow check valve shall be provided in the discharge piping to prevent foam contamination of fire pump and water tank. A pressure check valve shall be installed the foam concentration line and shall open at 5-psi.
Components of the complete system shall be:

- Operator control module
- Paddlewheel flowmeter
- Pump and electric motor/motor driver
- Wiring harness
- Low-level tank switch
- Foam tank
- Check valve: Foam injection
- Check valve: Main waterway

An installation and operation manual shall be provided for the unit along with a one-(1) year limited warranty. The system design shall have passed environmental testing with simulates heavy use on off road mobile apparatus. Testing shall have been conducted in accordance to SAE standards.

GAUGE, FOAM LEVEL

A Fire Research TankVision Pro model WLA360-A00 tank indicator kit shall be installed on the pump operator's panel. The kit shall include an electronic indicator module, a pressure sensor, a 10' sensor cable and a tank vent. The indicator shall show the volume of Class A foam concentrate in the tank on nine (9) easy to see super bright RGB LEDs. A wide view lens over the LEDs shall provide for a viewing angle of 180 degrees. The indicator case shall be waterproof, manufactured of Polycarbonate/Nylon material, and have a distinctive green label.

The program features shall be accessed from the front of the indicator module. The program shall support self-diagnostics capabilities, self-calibration, six (6) programmable colored light patterns to display tank volume, adjustable brightness control levels and a datalink to connect remote indicators. Low water warnings shall include flashing LEDs at 1/4 tank, down chasing LEDs when the tank is almost empty, and an output for an audio alarm.

LOW TANK SWITCH

A low level-tank sensor switch shall be installed in the foam tank. The sensor shall be mounted to indicate to the Display Control Module when the foam cell has approximately five (5) gallons of concentrate left.

FLOWMETER, 2" TEE MOUNT W/COUPLING KIT

There shall be a paddle wheel style flowmeter mounted in a 2" NPT pipe tee for mounting in a 2" discharge line. A groove less Victaulic coupling shall be provided for installation of the flowmeter. A water check valve shall be installed before the flowmeter and between the water pump and the foam injection point.

OPERATING SYSTEMS INSTRUCTION PLACARD, SINGLE TANK

There shall be a placard installed on the pump panel, a schematic of the Foam Pro (single tank) operating system, which has been installed.

FOAM PROPORTIONING SYSTEM TEST

NFPA 1901 PERFORMANCE REQUIREMENTS

The proportioning system shall be capable of proportioning foam concentrate in accordance with the foam concentrate manufacturer's recommendation for the type of foam concentrate used in the system over the system's design range of flow and pressure. The foam proportioning systems water flow characteristics and the range of proportioning ratios shall be specified.

The foam system shall comply with NFPA 1901 Chapter 17.0 as it relates to the specified system.

FOAM TANK PIPING

The foam supply line shall be non-collapsible. There shall be a means provided to prevent water backflow in to the foam proportioning system and storage tank(s).

Either a filter or strainer provided on the foam concentrate supply side of the foam proportioning to prevent any debris that may affect the operation of the foam proportioning system from entering the system. The strainer assembly shall consist of a removable straining element, housing, and retainer. The strainer assembly shall allow full flow capacity of the foam supply line.

FLUSHING

Foam concentrate system flush line(s) shall be provided as required by the foam system manufacturer. The design shall incorporate a means to prevent water backflow into the concentrate tank or water tank during the flushing operation. Where the foam proportioning system is connected to more than one (1) foam storage tank, provisions shall be made to flush all common lines to avoid contamination of dissimilar foam concentrates.

CONTROLS FOR FOAM SYSTEM

The foam proportioning system operation controls shall be located at or near the pump operator's position and shall be clearly labeled.

All foam-proportioning systems that require flushing shall provide controls, which enable the operator to flush the system in accordance with the foam manufacturer's instructions.

Foam proportioning systems that incorporate foam concentrate metering valves shall have each metering valve calibrated to indicate the rate(s) of flow of the foam concentrate proportioning available as determined by the design of the system.

Foam proportioning systems that incorporate automatic proportioning features shall be equipped with controls, which enable the operator to isolate the automatic feature and operate the system in a manual mode.

NAMEPLATE, LABELS, INSTRUCTION SPECIFICATIONS

There shall be a nameplate provided that is clearly marked with the identification and function of each control gauge and indicator related to the foam proportioning system.

There shall be a label provided on the operator's panel that identifies the type(s) of foam concentrate(s) the system is designed to use. This label shall state the minimum/maximum foam-proportioning rate at the minimum/maximum foam proportioning rated system flow and pressure.

Foam proportioning system instruction plate shall be provided. This includes a minimum piping schematic of the system and basic operating instructions.

Two (2) copies of an operations and maintenance manual shall be provided. These manuals shall include a complete diagram of the system, along with operating instructions and details outlining all recommended maintenance procedures.

FOAM PROPORTIONING SYSTEM TESTING

The apparatus manufacturer shall test the accuracy of the foam proportioning system prior to delivery of the apparatus.

If the manufacturer's rated proportioning ratio is below 3%, the foam system shall proportion foam concentrate within 0% /+40% of the manufacturer's rated proportioning ratio across the manufacturer stated range of water flow and pressure.

If the manufacturer's rated proportioning ratio is above 3%, the foam system shall proportion foam concentrate within 0% /+40% of the manufacturer's rated proportioning ratio or 1 percentage point, whichever is less across the manufacturer's stated range of water flow and pressure.

FOAM TANK NO. 1

The foam tank shall have a capacity of 10 gallons designed as an integral part of the water tank and shall have a manual fill tower. The fill tower shall be constructed of 1/2" PT3™ polypropylene and shall be a minimum dimension of 8" x 8" outer perimeter. Each foam fill tower shall be constructed of a colored material (yellow, green and black) indicating which tower is to receive each type of foam utilized. The capacity of the tank shall be engraved on the top of the fill tower lid. The tower shall be located in the right front corner of the tank unless otherwise specified. The tower shall have a 1/4" thick removable polypropylene screen and a stainless steel hinged-type cover. Inside the fill tower, approximately

1.5” down from the top, there shall be an anti-foam fill tube that extends down to the bottom of the tank. A pressure vacuum vent shall be provided in the lid of the fill tower.

FOAM OUTLETS

Foam shall be plumbed to the following outlets:

- Front Bumper Discharge
- No. 1 Speedlay
- No. 2 Speedlay

FILL SUBSURFACE/RETURN LINE

There shall be one-(1) subsurface/return line installed in the booster tank. The subsurface/return line shall prevent aeration of the water in the booster tank under low water conditions. The subsurface/return line piping shall be of the same size as the “Tank Fill”.

== Bodies - MVP SM Extruded - 1000 Gallons - 1606.001 06/03/16 ==

WATER TANK

The tank shall have a capacity of 750 U.S. gallons and shall be constructed of PT3™ polypropylene material. This material shall be a non-corrosive stress relieved thermoplastic and UV stabilized for maximum protection. Tank shell thickness may vary depending on the application and may range from ½ to 1” as required. Internal baffles are generally 3/8” in thickness.

ISO CERTIFICATION

The tank must be rectangular in design and fabricated by a tank manufacturer that is ISO 9001:2008 certified in each of its locations. The ISO certification must be to the current standard in effect at the time of the design and fabrication of the tank.

DESIGN

Each tank is designed to the customer’s specification and/or drawing submittal. An approval drawing is sent to the customer prior to commencing manufacturing. Upon receipt of the signed approval drawing, the tank is scheduled for production.

CONSTRUCTION

The booster and/or foam tank shall be of a specific configuration and is so designed to be completely independent of the body and compartments. Joints and seams shall be fused using nitrogen gas as required and tested for maximum strength and integrity. The tank construction shall include PolyProSeal™ technology wherein a sealant shall be installed between

the plastic components prior to being fusion welded. This sealing method shall provide a liquid barrier offering leak protection in the event of a weld compromise. The top of the booster tank is fitted with removable lifting assembly designed to facilitate tank removal. The transverse and longitudinal swash partitions shall be manufactured of a minimum of 3/8" PT3™ polypropylene. All partitions shall be equipped with vent and air holes to permit movement of air and water between compartments. The partitions shall be designed to provide maximum water flow.

All swash partitions interlock with one another and are completely fused to each other as well as to the walls of the tank. All partitions and spacing shall comply with NFPA 1901. The walls shall be welded to the floor of the tank providing maximum strength as part of the tank's unique Full Floor Design™. Tolerances in design allow for a maximum variation of 1/8" on all dimensions.

WATER FILL TOWER AND COVER

The tank shall have a combination vent and manual fill tower. The fill tower shall be constructed of 1/2" PT3™ polypropylene and shall be a minimum dimension of 8" x 8" outer perimeter. The fill tower shall be blue in color indicating that it is a water-only fill tower. The tower shall be located in the left front corner of the tank unless otherwise specified by the tank manufacturer to the purchaser. The tower shall have a 1/4" thick removable polypropylene screen and a PT3™ polypropylene hinged cover. The capacity of the tank shall be engraved on the top of the fill tower lid. Inside the fill tower there shall be a combination vent/overflow pipe. The vent overflow shall be a minimum of schedule 40 polypropylene pipe with a minimum I.D. of 4" that is designed to run through the tank, and shall be piped to discharge water behind the rear wheels as required in NFPA 1901 so as to not interfere with rear tire traction.
The tank cover shall be constructed of 1/2" thick PT3™ polypropylene and UV stabilized, to incorporate a multi-piece locking design, which allows for individual removal and inspection if necessary. The tank cover(s) shall be flush or recessed 3/8" from the top of the tank and shall be fused to the tank walls and longitudinal partitions for maximum integrity. Each one of the covers shall have hold downs consisting of 2" minimum polypropylene dowels spaced a maximum of 40" apart. These dowels shall extend through the covers and shall assist in keeping the covers rigid under fast filling conditions. A minimum of two lifting dowels shall accommodate the necessary lifting hardware.

SUMP

There shall be one (1) sump standard per tank. The sump shall be constructed of a minimum of 1/2" PT3™ polypropylene and be located in the left front quarter of the tank, unless specified otherwise. On all tanks that require a front suction, a 3" schedule 40 polypropylene pipe shall be installed that shall incorporate a dip tube from the front of the tank to the sump location. The sump shall have a minimum 3" NPT threaded outlet on the bottom for a drain plug per NFPA. This shall be used as a combination clean-out and drain. All tanks shall have an anti-swirl plate located approximately 3" above the inside floor.

OUTLETS

There shall be two (2) standard tank outlets: one for the tank-to-pump suction line, which shall be sized to provide adequate water flow to the pump; and, one for tank fill line, which shall be sized according to the NFPA minimum size chart for booster tanks. All tank fill couplings shall be backed with flow deflectors to break up the stream of water entering the tank, and be capable of withstanding sustained fill rates of up to 1000 GPM. The addition of rear suction fittings, nurse valve fittings, dump valve fittings, and through-the-tank sleeves to accommodate rear discharge piping must be specified. All auxiliary outlets and inlets must meet all NFPA guidelines in effect at the time of manufacture.

MOUNTING

The UPF Poly-Tank® III shall rest on the body cross members in conjunction with such additional cross members, spaced at a distance that would not allow for more than 530 square inches of unsupported area under the tank floor. In cases where overall height of the tank exceeds 40 inches, cross member spacing must be decreased to allow for not more than 400 square inches of unsupported area. The tank must be isolated from the cross members through the use of hard rubber strips with a minimum thickness and width dimension of 1/4” x 1” and a Shore A Hardness of approximately 60 durometer. The rubber must be installed so it shall not become dislodged during normal operation of the vehicle. Additionally, the tank must be supported around the entire bottom outside perimeter and captured both in the front and rear as well as side to side to prevent tank from shifting during vehicle operation. A picture frame type cradle mount with a minimum of 2" x 2" x 1/4” mild steel, stainless steel, or aluminum angle shall be provided or the use of corner angles having a minimum dimension of 4" x 4" x 1/4” by 6” high are permitted for the purpose of capturing the tank. Although the tank is designed on a free floating suspension principle, it is required that the tank have adequate vertical hold down restraints to minimize movement during vehicle operation. If proper retention has not been incorporated into the apparatus hose floor structure, an optional mounting restraint system shall be located on top of the tank, half way between the front and the rear on each side of the tank. These stops can be constructed of steel, stainless steel or aluminum angle having minimum dimensions of 3" x 3" x 1/4” and shall be approximately 6” to 12” long. These brackets must incorporate rubber isolating pads with a minimum thickness of 1/4” inch and a hardness of 60 durometer affixed on the underside of the angle. The angle should then be bolted to the body side walls of the vehicle while extending down to rest on the top outside edge of the upper side wall of the tank. Hose beds floors must be so designed that the floor slat supports extend full width from side wall to side wall and are not permitted to drop off the edge of the tank or in any way come in contact with the individual covers where a puncture could occur. Tank top must be capable of supporting loads up to 200 lbs. per sq. foot when evenly distributed. Other equipment such as generators, portable pumps, etc. must not be mounted directly to the tank top unless provisions have been designed into the Poly-Tank® III for that purpose. The tank shall be completely removable without disturbing or dismantling the apparatus structure.

CAPACITY CERTIFICATION

All water and foam tanks shall be tested and certified as to capacity on a calibrated and certified tilting scale. Each tank shall be weighed empty and full to provide precise fluid capacity. Each Poly-Tank® III is delivered with a Certificate of Capacity delineating the weight empty and full and the resultant capacity based on weight. Engineering estimates for capacity calculations shall not be permitted for capacity certification.

TANKNOLOGY™ TAG

A tag shall be installed on the apparatus in a convenient location and contain pertinent information including a QR code readable by commercially available smart phones. The information contained on the tag shall include the capacity of the water and foam (s), the maximum fill and pressure rates, the serial number of the tank, the date of manufacture, the tank manufacturer, and contact information. The QR code shall allow the user to connect with the tank manufacturer for additional information and assistance.

WATER TANK SIZE CERTIFICATION

The manufacturer shall certify the capacity of the water tank prior to the delivery of the apparatus. This capacity shall be recorded on the manufacturer's record of construction and the certification shall be provided when the apparatus is delivered.

GAUGE, WATER LEVEL

A Fire Research TankVision Pro model WLA300-A00 tank indicator kit shall be installed on the pump operator's panel. The kit shall include an electronic indicator module, a pressure sensor, and a 10' sensor cable. The indicator shall show the volume of water in the tank on nine (9) easy to see super bright RGB LEDs. A wide view lens over the LEDs shall provide for a viewing angle of 180 degrees. The indicator case shall be waterproof, manufactured of Polycarbonate/Nylon material, and have a distinctive blue label.

The program features shall be accessed from the front of the indicator module. The program shall support self-diagnostics capabilities, self-calibration, six (6) programmable colored light patterns to display tank volume, adjustable brightness control levels and a datalink to connect remote indicators. Low water warnings shall include flashing LEDs at 1/4 tank, down chasing LEDs when the tank is almost empty, and an output for an audio alarm.

APPARATUS BODY, 103" WIDE

The 103" wide apparatus body and subframe shall be constructed entirely of marine grade aluminum plate and extrusions.

BODY SUBFRAME

The main body support cross member extrusions shall be 3" x 4" 6061T6 aluminum alloy, double "I" beam with a wall thickness of 7/16" (.438"). These cross members shall extend the full width of the body to support the compartment framing. The cross members shall be welded to a 3/4" (.750") x 3" solid aluminum, 6061T6 aluminum (alloy frame rail) extrusion. The frame rail extrusion shall be shaped in contour with the chassis frame rails. The frame rail extrusion shall be mounted over a 1/2" (.5") thickness, reinforced rubber cushion to isolate the aluminum subframe from the chassis steel frame rails. The apparatus body structure shall be securely fastened to the chassis frame rails with a minimum of six-(6) 5/8" (.625") cross member OD, steel U-bolts. The main body support cross member shall have a gusset above and below each cross member. The gussets shall be constructed of 2.0" x 4.0" 6063T6 aluminum alloy extrusion with a .190" wall thickness. The gussets shall be continuously welded with 5356 aluminum alloy welding wire to add support to the body sidewalls. The main body supports and the longitudinal double "I" beam supports shall have a "C" shaped rubber tank cushion installed on the top of each member. This rubber extrusion shall conform to the shape of the double "I" beam extrusion to keep the tank cushion in place. This method is used to prevent damage to the tank.

Absolutely no pop-rivets, screws or any other hardware shall be used to hold the rubber tank cushion in place.

BODY CONSTRUCTION

The complete apparatus body structure shall be an all welded construction and be free from nuts, bolts and other fasteners. Upon completion of the weldments, the body shall be completely sanded and deburred for removal of all sharp edges.

The body framework shall be formed from beveled aluminum alloy extrusions and electrically seam welded at each joint using 5356 aluminum alloy welding wire. Body sides shall be formed from 5052 H-32 (marine grade) smooth aluminum plates. The horizontal surfaces above the compartment tops shall be constructed from aluminum tread plate.

The horizontal and vertical frame member extrusions shall be 2.0" x 4.0" with a .190" wall thickness. The extrusion shall be made from 6063T6 aluminum alloy. This extrusion shall have .190" outside radius corners. The longitudinal frame member, below the lower compartments shall be a 2.0" x 4.0" 6063T6 aluminum alloy extrusion with .190" radius corners. Each body corner shall be a 3.5" x 9-3/4" 6063T6 extruded aluminum section with .210" wall thickness, and shall be welded as an integral part of the body. This extrusion shall have a 1" corner radius.

COMPARTMENT CONSTRUCTION

The compartment sidewalls shall be of one-piece construction. The walls shall be formed from 3/16" (.1875") 5052 H-32 (marine grade) smooth aluminum plate. All compartment floors shall be formed from 3/16" (.1875") aluminum tread plate. The floors shall be welded in place with a continuous weld all around the perimeter to insure maximum strength.

The external compartment tops shall be constructed of 1/8" (.125") aluminum tread plate. The tops shall have a formed edge, which serves as a drip rail for the compartments below. The compartment tops shall be secured with stainless steel screws to allow for ease of removal for access to the bodies wiring harnesses.

The compartment seams shall be sealed with permanent pliable silicone caulking.

Each compartment shall be vented through a 3" wide x 15" high louver that is machined stamped in a panel located in each body corner extrusion. The panel shall be removable to provide access to service wiring and other mounted components.

WHEEL WELL PANELS, PAINTED ALUMINUM

The wheel well shall be constructed from 2" x 4" x .190" wall thickness. The extrusion shall be made from 6063T6 aluminum alloy and have .190" outside radius corners. The extrusion shall be slotted the full length to permit an internal fit of 3/16" (.187") painted aluminum panels. The wheel well liners shall be constructed of 3003 H-14 smooth aluminum plates. They shall be bolted in place for ease of maintenance. The wheel well fenderettes shall be constructed of a #304 Stainless steel with a #7 polished finish.

A deflection shield shall be mounted to the body subframe to keep road debris from entering the water tank area.

HOSEBED

The hosebed sides shall be constructed of 3/16" (.1875") 5052 H-32 (marine grade) smooth aluminum plate welded to the extruded framework. There shall be a 3" x 3.5" 6063T6 aluminum extrusion with .190" wall thickness running the entire length of the hosebed at the top for structural rigidity. The hosebed decking shall be constructed from anodized aluminum extrusions. The extrusions shall be 3/4" (.750") x 8.125" and have 3/4" (.750") x 3.00" hat channel attached to the underside to form a one-piece grid. The entire deck shall be removable, in one piece, to allow ease of serviceability to the tank. The hosebed shall include an extrusion across the front and rear of the compartment for the installation of adjustable hosebed dividers.

The fire apparatus hose body shall be 44" wide and shall contain a minimum of 90 cubic feet of storage.

COMPARTMENTS, LEFT SIDE

L1
There shall be one-(1) compartment installed under the lower 1-3/4" and 2-1/2" double speedlays. This compartment shall have a vertically hinged door. The interior compartment dimensions shall be approximately 17-1/2" wide x 17-1/2" high x UREA TANK. The compartment shall have a useable door opening of approximately 17-1/2" wide x 17-1/2" high.

L2
There shall be one-(1) compartment installed above the 1-3/4" upper speedlay. This compartment shall have a vertically hinged door. The interior compartment dimensions shall be approximately 9-1/2" wide x 44-1/2" high x 27-1/2" deep in the lower section and 84" deep in the upper section to shall accommodate a stokes basket or other long equipment. The compartment shall have a useable door opening of approximately 9-1/2" wide x 44-1/2" high.

L3
There shall be one-(1) compartment installed at the front of the body, containing the left side pump panel. This compartment shall have one-(1) roll up door. The compartment shall be approximately 32-1/2" wide x 74" high x pump panel in the lower section and 27-1/2" deep in the upper section. The compartment shall have a useable door opening of approximately 29-1/2" wide x 65" high.

L4
There shall be one-(1) compartment installed ahead of the rear axle. This compartment shall have a roll-up door. The interior compartment dimensions shall be approximately 57" wide x 74" high x 27-1/2" deep. The compartment shall have a useable door opening of approximately 54" wide x 65" high.

L5
There shall be one-(1) compartment installed above the wheel well. This compartment shall have one-(1) roll up door. The compartment shall be approximately 58" wide x 38" high x 27-1/2" deep. The compartment shall have a useable door opening of approximately 55" wide x 29" high.

L6
There shall be one-(1) compartment installed behind the rear axle. This compartment shall have one-(1) roll up door. The compartment shall be approximately 59" wide x 74" high x transverse in the lower section and 27-1/2" deep in the upper section. The compartment shall have a useable door opening of approximately 56" wide x 65" high.

COMPARTMENT DOORS, LEFT SIDE HINGED

The left side compartment doors shall be constructed entirely from 5052-H32 smooth aluminum plate using a box pan configuration. The outer panel shall be constructed from 3/16" (.1875") smooth aluminum plate and the inner pan stitch welded in place from 1/8" (.125") smooth aluminum plate.

There shall be a 1/4" (.250") hole installed in the lower corners of the inside door pans for drainage. The doors shall have a closed cell neoprene rubber gasket installed around the perimeter of the door to remove water.

Exterior door latches shall incorporate a polished D-paddle handle with rotary style latch. For ease of operation, the D-handle opening shall be large enough to accommodate a gloved hand. The D-paddle latching design shall be subjected to corrosion, water infiltration, and cycle testing to 35,000 cycles. Double doors shall utilize concealed rotary latches on the secondary door, actuated by a recessed stainless steel paddle handle. The door design shall not impede into the

compartment opening when in the open position. The watertight door seal shall exceed the current KKK-1822 water infiltration standards. The doors shall be securely fastened to the apparatus body with full-length stainless steel piano hinges using 1/4-20 stainless bolts and locking nuts. The hinges shall be slotted to allow for adjustments.

Absolutely no self-tapping screws or pop rivets shall be acceptable to mount the door mechanisms or slam latch assemblies.

COMPARTMENT DOORS, LEFT SIDE ROLL UP

Roll-up doors shall be installed on the left side compartments of the apparatus as specified.

Slats are 1" double-wall (box frame) aluminum extrusion. Exterior surfaces are to be flat. Interior surfaces are to be concave to prevent loose equipment from jamming doors. The slats must be anodized to eliminate oxidation. The slats are to have inner-locking end shoes on every slat secured by a Punch-Dimple process. The slats are to have interlocking joints with a folding locking flange. Between each slat shall be a PVC/vinyl inner seal to prevent any metal-to-metal contact.

The track shall be one-piece aluminum, which has an attaching flange and finishing flange incorporated into its design, which provides a finish look to installation without additional trim or caulking. The track is to have a replaceable side seal. The side seal shall prevent water and dust intrusion into the compartment.

There shall be an aluminum drip rail above each compartment door with a built in replaceable wiper seal.
Each roll up door shall have a counter balance to assist in lifting and eliminate the risk of accidental closing.

A full width lift bar, operable by one hand, shall be used as a positive latch device for securing each individual compartment door in the closed position.

The side compartment roll-up door slats and doorframe extrusions shall be finish painted to match the body.

PULL DOWN STRAP(S), COMPARTMENT DOOR

There shall be four (4) pull-down strap(s) provided on the high side compartment door(s) to aid in closing the door(s).

COMPARTMENTS, RIGHT SIDE

R1
There shall be one-(1) compartment installed under the lower 1-3/4" and 2-1/2" double speedlays. This compartment shall have a vertically hinged door. The interior compartment dimensions shall be approximately 17-1/2" wide x 17-1/2" high x 21" deep. The compartment shall have a useable door opening of approximately 17-1/2" wide x 17-1/2" high.

R2
There shall be one-(1) compartment installed above the 1-3/4" upper speedlay. This compartment shall have a vertically hinged door. The interior compartment dimensions shall be approximately 9-1/2" wide x 44-1/2" high x 27-1/2" deep in the lower section and 84" deep in the upper section to shall accommodate a stokes basket or other long equipment. The compartment shall have a useable door opening of approximately 9-1/2" wide x 44-1/2" high.

R3

There shall be one-(1) compartment installed at the front of the body, containing the left side pump panel. This compartment shall have one-(1) roll up door. The compartment shall be approximately 32-1/2" wide x 74" high x pump panel in the lower section and 27-1/2" deep in the upper section. The compartment shall have a useable door opening of approximately 29-1/2" wide x 65" high.

R4
There shall be one-(1) compartment installed ahead of the rear axle. This compartment shall have a roll-up door. The interior compartment dimensions shall be approximately 57" wide x 74" high x 27-1/2" deep. The compartment shall have a useable door opening of approximately 54" wide x 65" high.

R5
There shall be one-(1) compartment installed above the wheel well. This compartment shall have one-(1) roll up door. The compartment shall be approximately 58" wide x 38" high x 27-1/2" deep. The compartment shall have a useable door opening of approximately 55" wide x 29" high.

R6
There shall be one-(1) compartment installed behind the rear axle. This compartment shall have one-(1) roll up door. The compartment shall be approximately 59" wide x 74" high x transverse in the lower section and 27-1/2" deep in the upper section. The compartment shall have a useable door opening of approximately 56" wide x 65" high.

COMPARTMENT DOORS, RIGHT SIDE HINGED

The specified right side compartment doors shall be constructed entirely from 5052-H32 smooth aluminum plate using a box pan configuration. The outer panel shall be constructed from 3/16" (.1875") smooth aluminum plate and the inner pan stitch welded in place from 1/8" (.125") smooth aluminum plate.

There shall be a 1/4" (.250") hole installed in the lower corners of the inside door pans for drainage. The doors shall have a closed cell neoprene rubber gasket installed around the perimeter of the door to remove water.

Exterior door latches shall incorporate a polished D-paddle handle with rotary style latch. For ease of operation, the D-handle opening shall be large enough to accommodate a gloved hand. The D-paddle latching design shall be subjected to corrosion, water infiltration, and cycle testing to 35,000 cycles. Double doors shall utilize concealed rotary latches on the secondary door, actuated by a recessed stainless steel paddle handle. The door design shall not impede into the compartment opening when in the open position. The watertight door seal shall exceed the current KKK-1822 water infiltration standards. The doors shall be securely fastened to the apparatus body with full-length stainless steel piano hinges using 1/4-20 stainless bolts and locking nuts. The hinges shall be slotted to allow for adjustments.

Absolutely no self-tapping screws or pop rivets shall be acceptable to mount the door mechanisms or slam latch assemblies.

COMPARTMENT DOORS, RIGHT SIDE ROLL UP

Roll-up doors shall be installed on the right side compartments of the apparatus as specified.

Slats are 1" double-wall (box frame) aluminum extrusion. Exterior surfaces are to be flat. Interior surfaces are to be concave to prevent loose equipment from jamming doors. The slats must be anodized to eliminate oxidation. The slats are to have inner-locking end shoes on every slat secured by a Punch-Dimple process. The slats are to have interlocking joints with a folding locking flange. Between each slat shall be a PVC/vinyl inner seal to prevent any metal-to-metal contact.

The track shall be one-piece aluminum, which has an attaching flange and finishing flange incorporated into its design, which provides a finish look to installation without additional trim or caulking. The track is to have a replaceable side seal. The side seal shall prevent water and dust intrusion into the compartment.

There shall be an aluminum drip rail above each compartment door with a built in replaceable wiper seal.
Each roll up door shall have a counter balance to assist in lifting and eliminate the risk of accidental closing.

A full width lift bar, operable by one hand, shall be used as a positive latch device for securing each individual compartment door in the closed position.

The side compartment roll-up door slats and doorframe extrusions shall be finish painted to match the body.

PULL DOWN STRAP(S), COMPARTMENT DOOR

There shall be four (4) pull-down strap(s) provided on the high side compartment door(s) to aid in closing the door(s).

COMPARTMENT, CENTER REAR
B1
There shall be one-(1) compartment installed at the center rear of the apparatus. This compartment shall have one-(1) roll up door. The compartment shall have a useable door opening of approximately 41" wide x full height.

COMPARTMENT DOOR, REAR ROLL UP

A roll-up door shall be installed on the rear compartment of the apparatus.

Slats are 1" double-wall (box frame) aluminum extrusion. Exterior surfaces are to be flat. Interior surfaces are to be concave to prevent loose equipment from jamming doors. The slats must be anodized to eliminate oxidation. The slats are to have inner-locking end shoes on every slat secured by a Punch-Dimple process. The slats are to have interlocking joints with a folding locking flange. Between each slat shall be a PVC/vinyl inner seal to prevent any metal-to-metal contact.

The track shall be one-piece aluminum, which has an attaching flange and finishing flange incorporated into its design, which provides a finish look to installation without additional trim or caulking. The track is to have a replaceable side seal. The side seal shall prevent water and dust intrusion into the compartment.

There shall be an aluminum drip rail above each compartment door with a built in replaceable wiper seal.
Each roll up door shall have a counter balance to assist in lifting and eliminate the risk of accidental closing.

A full width lift bar, operable by one hand, shall be used as a positive latch device for securing each individual compartment door in the closed position.

The rear compartment roll-up door slats and doorframe extrusions shall be finish painted to match the body.

PULL DOWN STRAP, COMPARTMENT DOOR

There shall be a pull-down strap provided on the rear compartment door(s) to aid in closing the door.

REAR BODY CONSTRUCTION, FLAT BACK DESIGN

The rear of the apparatus shall be flat back design. No beavertails shall be installed on the unit.

COMPARTMENTS, ROOF TOP STORAGE

Six-(6) roof top compartments shall be installed, three-(3) each side of the upper body. The compartments shall be constructed from same material as the body and shall be integral with the body. Each compartment shall have a door constructed from aluminum tread plate. The doors shall have a stainless steel piano type hinge and chest style latch. The interior compartment dimensions shall be determined by customer requirements for equipment storage and engineering. Compartments shall have a 1/2" flange around the opening to prevent water from entering the compartment when the door is closed. The doors shall be held open with gas shocks.

Each compartment shall have a grommet mount LED installed to the compartment inner door pan that activates when the door is open.

The right side compartments are slightly smaller to allow for a landing area above the rear access ladder.

COMPARTMENT, LADDER STORAGE

A rear, ladder storage compartment shall be configured through the center of the polypropylene tank. The ladder storage area shall be designed to completely enclose and protect the contents.

The rectangular storage compartment shall be fabricated entirely of polypropylene. The tunnel shall extend the length of the tank and completely supported from within the tank. External supports shall not be permitted. The sidewalls and top of the tunnel shall be constructed of 1/2" (.500") thick polypropylene. The floor of the tunnel shall be constructed of 3/4" (.750") thick polypropylene. All four sides shall be internally welded to the tank structure. The tunnel floor shall provide a surface, which is smooth and free of any obstructions, which would prevent the unencumbered removal of stored equipment.

A ladder storage compartment constructed of 3/16" (.1875") thick 5052-H32 Marine grade aluminum and designed to accommodate one (1) 24' extension ladder, one (1) 14' roof ladder, one (1) 10' aluminum folding attic ladder and up to four (4) pike poles, shall be installed in the tank sleeve. The ladder storage compartment shall be appropriately sectioned utilizing 3/16" (.1875") thick Marine grade aluminum. The floor of the partitions shall be overlaid with polypropylene to facilitate individual removal of the contents. The individual pike poles tubes shall be manufactured from aluminum, and shall be easily removable in the event that service to the water tank is necessary.

Access to the compartment shall be gained through a horizontally hinged, lift up style compartment door, located at the rear of the vehicle. The outer door shall be constructed of 3/16" (.1875") thick smooth aluminum plate and the inner pan

constructed from 1/8" (.125") thick smooth aluminum plate. There shall be a 1/4" (.250") hole installed in the lower corners of the inside door pans for drainage. The doors shall have a closed cell neoprene rubber gasket installed around the perimeter of the door to carry off water. The door shall have one (1) D-paddle handle with rotary latch mechanism, and pneumatic door stay device. The door striker shall be offset to improve the storing and removal of equipment. The door shall have a continuous stainless steel piano hinge bolted to the body and door with stainless steel hardware.

STORAGE TUBES, PIKE POLE

Four-(4) aluminum tubes shall be installed on the apparatus for pike pole storage. One-(1) end shall be notched to allow the poles to be locked in place.

The tubes shall be located in the ladder compartment.

COMPARTMENT, SPEEDY DRY STORAGE

One-(1) dry chute dispenser labeled “Speedy Dry” shall be installed from the roof top compartment to below the side rear compartment fabricated from aluminum tubing and formed aluminum plate. A sliding push-pull handle labeled “Pull to open” shall be installed between the upper and lower tubing accessed from inside the lower compartment allowing the material to be dispensed below the vehicle while in the "Open" position. An angled bucket constructed from formed aluminum plate shall be installed in the roof top compartment housing the opened material.

STORAGE MODULE, BACKBOARD

There shall be a backboard storage module located within the upper section pump panel compartments. This backboard module shall be constructed from welded 3/16" thick smooth aluminum plate, complete with welded partitions. The module shall be designed to carry three-(3) backboards. Each opening shall be approximately 3" high x 18" wide x 72" deep. This module shall contain approximately 6-3/4 cubic feet of storage. The outer left and right sections shall be welded to the body structure. The center section shall be completely removable for improved pump service access. The center section shall slide out with the release of two-(2) stainless steel butterfly latches.

EQUIPMENT RACK, AIR BAG STORAGE

There shall be one-(1) equipment storage rack fabricated from aluminum for store air bags. The location of the storage rack shall be determined by the Fire Department.

The air bag modele shall be located to the left of the equipment module in compartment R5 to match H5393.

STORAGE MODULE, CHAIN SAW

There shall be one (1) saw storage module(s) located in the specified compartment(s) to hold two-(2) rescue saws. The module shall be fabricated from 1/8" smooth aluminum and shall be painted with gray "F-Shield".

The module shall be angled to allow for additional storage. The front of the module shall have two-(2) lift up door to access the additional storage area. The outside of each door shall be equipped with a fabricated saw mount and two-(2) chrome dog bone handles.

The module shall be located on the forward back wall of compartment L6.

STORAGE MODULE, COMPARTMENT L5

There shall be a storage module located in compartment L5. The module shall be fabricated from 1/8" smooth aluminum and shall be painted with dark gray "F-Shield".

The module shall be divided into ten-(10) separate storage areas for miscellaneous equipment.

There shall be two-(2) tubes installed in the module for storage of D-size Oxygen cylinders.

STORAGE MODULE, COMPARTMENT R4

There shall be a storage module located in compartment R4. The module shall be fabricated from 1/8" smooth aluminum and shall be painted with dark gray "F-Shield".

The module shall be divided into twelve-(12) separate storage areas for miscellaneous equipment.

STORAGE MODULE, COMPARTMENT R5

There shall be a storage module located in compartment R5. The module shall be fabricated from 1/8" smooth aluminum and shall be painted with dark gray "F-Shield".

The module shall be divided into seven-(7) separate storage areas for miscellaneous equipment.

WHEEL WELL AIR BOTTLE COMPARTMENT, LEFT FRONT

There shall be an aluminumair bottle compartment located in the left front body wheel well to house two-(2) spare SCBA cylinders. The floor and sides of the compartment shall be lined with a polypropylene sheet and the back wall shall be lined with rubber matting to provide scuff protection. The bottom of the compartment shall be supported to eliminate breakage. The compartment shall be vented to facilitate moisture drainage.

WHEEL WELL AIR BOTTLE COMPARTMENT, LEFT REAR

There shall be an aluminum air bottle compartment located in the left rear body wheel well to house two-(2) spare SCBA cylinders. The floor and sides of the compartment shall be lined with a polypropylene sheet and the back wall shall be lined with rubber matting to provide scuff protection. The bottom of the compartment shall be supported to eliminate breakage. The compartment shall be vented to facilitate moisture drainage.

WHEEL WELL AIR BOTTLE COMPARTMENT, RIGHT FRONT

There shall be an aluminum air bottle compartment located in the right front body wheel well right front to house two-(2) spare SCBA cylinders. The floor and sides of the compartment shall be lined with a polypropylene sheet and the back wall shall be lined with rubber matting to provide scuff protection. The bottom of the compartment shall be supported to eliminate breakage. The compartment shall be vented to facilitate moisture drainage.

STORAGE COMPARTMENT, RIGHT CENTER

There shall be a storage compartment located in the right center body wheel well to house miscellaneous equipment. The bottom of the compartment shall also be supported to eliminate breakage. The compartment shall be vented to facilitate moisture drainage. The compartment door shall be painted with a push button trigger latch.

WHEEL WELL AIR BOTTLE COMPARTMENT, RIGHT REAR

There shall be an aluminum air bottle compartment located in the right rear body wheel well to house two-(2) spare SCBA cylinders. The floor and sides of the compartment shall be lined with a polypropylene sheet and the back wall shall be lined with rubber matting to provide scuff protection. The bottom of the compartment shall be supported to eliminate breakage. The compartment shall be vented to facilitate moisture drainage.

DOORS, WHEEL WELL COMPARTMENTS

The wheel well compartment doors shall be brushed stainless steel with a push button trigger latch.

BODY TRIM

The standard body trim shall include the following:

There shall be drip rail installed over the compartment door openings.

A drip rail shall be located over each compartment door. This drip rail shall form a lip over the exterior door pans to prevent water from running into a compartment.

The vertical rear face of the body shall be covered with smooth aluminum plate.

One-(1) handrail shall be located on the left rear of the apparatus. The handrail shall be constructed of 1-1/4" knurled aluminum. The handrail shall be mounted with chrome plated end stanchions. The handrail shall be sufficient in length to meet all standard requirements.

Two-(2) stanchions shall be mounted at the rear of the apparatus hosebed, one-(1) each side. The stanchions shall be 11" long x 3-3/4" wide. Stainless steel scuff plates shall be installed in the hosebed area to prevent deploying hose from damaged on stanchion supports. The stanchions shall provide mounting positions for the Zone C warning lights and additional hosebed lighting. All wiring for the upper rear lighting shall be concealed inside the stanchions.

FUEL FILL, RECESSED WITH DOOR

There shall be a recessed fuel fill assembly with a non-locking door mounted on the left side of the apparatus body. The fuel fill assembly shall be equipped with a fuel fill cap, retention ring and hinged door. The assembly shall be properly labeled "DIESEL FUEL ONLY".

MUD FLAPS, REAR

The rear axle mud flaps shall be constructed from hard black rubber and installed at the rear of the body fenders.

RUBRAIL

There shall be an aluminum rubrail installed on both sides of the lower body compartments. The rubrail shall be constructed from "C" channel extrusion. The aluminum rubrail shall be bolted in place with stainless steel bolts, and spaced from the fire body to provide body protection. The solid rubrail shall serve as protection to the side doors when encountering close objects. Tread plate rubrails or welded on shall not be acceptable.

REAR STEP

The 10" rear step shall be constructed of 3/16" (.1875") aluminum tread plate. The rear step shall be flanged down 2.50" and in 1.00" to maximize strength and rigidity. The rear step shall be bolted on for removal or replacement.

All running board and step surfaces shall comply with NFPA 1901.

ACCESS LADDER, REAR

There shall be one-(1) Zico Quic-Ladder model 3096 with a two-rung fold-down section and six-rung main ladder section. The ladder shall be cast aluminum with a flat, non-skid surface for traction. Each step shall be 3” deep x 15-1/2” wide. The handrails shall be 1-1/4” heavy-walled aluminum tubing, covered between the rungs with ribbed black neoprene.

The ladder shall be located on the right rear of the apparatus.

TOW EYES, REAR

Two-(2) 1" thick rear tow eyes constructed of A-36 steel shall be mounted below the frame at the rear of the vehicle. The tow eyes shall be attached to steel weldments that are mounted to the apparatus. The eyes shall have a minimum dimension of three-(3) inches. The tow eyes shall be used for towing, not lifting the vehicle.

HANDRAIL, BELOW HOSE BED

There shall be an intermediate handrail installed on the apparatus below the hose bed. The handrail shall be constructed of 1-1/4" knurled aluminum. The handrail shall be mounted with chrome plated end stanchions.

HOSE BED DIVIDER(S)

One (1) hose bed divider(s) shall be manufactured from 1/4" (.250") smooth aluminum plate with an extruded aluminum base welded to the bottom. The divider shall have an extruded track to slide in to allow the hose bed to adjust for different hose capacities. One end of the divider shall have a 3" radius corner. The divider shall be sanded to prevent damage to hose.

HOSE BED COVER

A 1/8" (.125") aluminum tread plate hose bed cover shall be provided. The cover shall be two (2) door types with continuous stainless steel hinge along each side. The hosebed cover shall have aluminum assist handles and door hold open springs. An open door indicator switch shall be provided and wired the open door indicator system in the cab.

Two (2) Hypalon end flaps shall be provided at the rear of the apparatus. The flaps shall be constructed of 16 oz. heavy-duty, fire retardant Hypalon.

A safety sign FAMA22, which warns of the need to secure hose, shall be visible to personnel at the hose storage area.

The covers shall be wired the door ajar system.

The hypalon end flaps shall be secured at the bottom using snaps and Velcro. The end flaps shall completely protect the hose and prevent the hose from inadvertently deploying during normal operation.

The cover shall meet the TIA 03-1 NFPA requirement.

The covers shall be red in color.

HOSE BED CAPACITY

The hose bed shall have the capacity to hold the following:

No hose bed capacity was specified at the time of proposal completion. The overall height may increase due to the required hose load specified by the Fire Department.

== Body Components - Pumpers - 1606.001 06/03/16 ==

SHELF, PERMANENT

There shall be seven (7) permanent shelf (shelves) constructed from aluminum mounted in the specified location of the compartment. Each shelf shall have a 2" lip at the front and rear for additional strength.

There shall be a shelf located in compartment L3 (above the backboard storage, compartment L3 (right of the backboard storage), compartment B1 (left of the ladder tunnel), compartment B1 (right of the ladder tunnel), compartment R3 (above pump panel) and compartment R3 (left of the backboard storage).

The location if the seventh shelf shall be determined at the pre-construction meeting.

COMPARTMENT UNISTRUTS

Two (2) set(s) of aluminum unistruts shall be installed in the compartment(s) specified by the department for future installation of shelves or to allow the specified trays/tool boards to be adjustable.

The adjustable tracking shall be located in compartment L4 and compartment R6.

TRAY(S), 250 POUND ROLL OUT

There shall be two (2) roll-out tray(s) supplied, constructed from 3/16" (.1875") smooth aluminum plate. The tray shall be approximately 19-36"W x 24-28"D. The tray(s) shall have a 3" lip on all sides for additional strength. The tray(s) shall be mounted on Grant slides with a combined capacity of 250 pounds.

There shall be a tray shall be floor mounted in compartment L4, right of the compartment divider and compartment R4, right of the storage module.

TRAY(S), 250 POUND ROLL OUT

There shall be three (3) roll-out tray(s) supplied, constructed from 3/16" (.1875") smooth aluminum plate. The tray shall be approximately 37-48"W x 24-28"D. The tray(s) shall have a 3" lip on all sides for additional strength. The tray(s) shall be mounted on Grant slides with a combined capacity of 250 pounds.

There shall be one-(1) tray floor mounted in compartment L6 (left of compartment divider), one-(1) floor mounted in compartment B1 and one-(1) adjustable in lower section compartment R6 (left of compartment divider).

TRAY(S), 500 POUND ROLL OUT

There shall be one (1) roll-out tray(s) supplied, constructed from 3/16" (.1875") smooth aluminum plate. The tray shall be approximately 37-48"W x 24-28"D. The tray(s) shall have a 3" lip on all sides for additional strength. The tray(s) shall be mounted on Slide Master Slides with a combined capacity of 500 pounds.

The tray shall be floor mounted in compartment R6, left of the compartment divider.

TOOL BOARD(S), VERTICAL ROLL OUT

There shall be three (3) vertical tool board(s) mounted in a specified compartment. Each tool board shall be manufactured from 3/16" smooth aluminum plate. The tool board(s) shall be approximately 24-28"D x full height and designed to extend 100% of the slide length. One (1) set of Grant 250# slides shall be installed per tool board.

TOOL BOARD(S), VERTICAL ROLL OUT

There shall be one (1) vertical tool board(s) mounted in a specified compartment. Each tool board shall be manufactured from 3/16" smooth aluminum plate. The tool board(s) shall be approximately 24-28"D x 0-27"H and designed to extend 100% of the slide length. One (1) set of Grant 250# slides shall be installed per tool board.

The tool board shall be located on the upper section of compartment L6. The located will be on the left side of the full height compartment divider.

STORAGE POCKET(S), VERTICAL TOOL BOARD

There shall be seven (7) storage pocket(s) installed at the bottom of the specified vertical slide out tool boards.

There shall be two-(2) full height tool board located in compartment L4 (left of the compartment divider) and one-(1) full height tool board in compartment L6 (front side wall).

The compartment L4 tool boards shall be adjustable side to side.

COMPARTMENT DIVIDER(S)

Five (5) compartment divider(s) shall be mounted in the specified compartment. The divider shall be constructed of 3/16" (.1875") smooth aluminum plate.

There shall be a divider in compartment L4 (21" from the rear side wall), compartment L6 (10" from the rear side wall), compartment R4 (left of the roll out tray) and compartment R6 (13" from the front side wall).

The fifth divider shall be center mounted in the compartment R4 roll out tray.

COMPARTMENT FLOORING, TURTLE TILE

There shall be Turtle Tile installed on the compartment floor(s). The color of the tile shall be black. The Turtle Tile shall be completely removable for cleaning.

If the compartment has a roll out tray mounted directly on the floor, the Turtle Tile will be mounted in the tray.

SHELF/TRAY FLOORING, TURTLE TILE

There shall be Turtle Tile installed in the specified shelf or tray. The tile shall be black in color. The Turtle Tile shall be completely removable for cleaning.

== Elec. Components - Pumper Custom - 1606.001 06/03/16 ==

ELECTRICAL SYSTEM

BODY ELECTRICAL

The body electrical system shall be designed as an integrated electrical package specifically engineered for fire apparatus application. The integrated electrical system shall be comprised of power distribution panels, which interface to the body and chassis through an engineered harnessing system.

All chassis wiring shall be type "GXL" in accordance with S.A.E. J1128 and NFPA-1901. Wiring shall be color coded and include function codes every three-(3) inches on both sides.

The electrical wiring harness shall be covered by a black split convoluted loom, rated at a minimum of 275º F.

DISTRIBUTION PANELS

The electrical distribution panels and circuits must be housed in each rear corner compartment or extrusion. The distribution panel shall incorporate a power and ground stud for connection to the internal circuits.

All internal wire end terminals, including locking bulkhead connectors, shall be mechanically affixed to the wire ends by machine terminal crimping presses. No hand-crimped terminals shall be acceptable.

All internal splices shall be ultrasonically welded connections - no butt style connections shall be acceptable. All internal wiring shall be of the high temperature GXL type wire and shall be protected by wiring duct wherever possible.

Each side electrical distribution panel shall consist of fifteen-(15) power distribution relays. The power distribution relays shall be replaceable, SPDT automotive style, rated at a minimum of 30 amperes.

The power distribution relays shall incorporate separate inputs, which are able to accept outputs from a load management system. The load management inputs must allow for the addition of a load management system before, during or after the time of delivery without requiring a rewiring of the existing distribution panel circuits.

Connections to the distribution panel shall utilize Deutsch style bulkhead connectors. Screw clamp type connections are not acceptable.

The distribution panel shall also contain circuit's ancillary to the required DOT signals and other body functions.

The complete body electrical system shall be 100% documented and contain independent circuit diagrams with point to point wiring information, as shall as a general component diagram included in the apparatus manual.

The body electrical panel shall be capable of being completely disconnected and fully tested by a computerized circuit analyzer.

All electrical equipment switches shall be mounted on a switch panel mounted in the cab convenient to the driver. Light switches shall be of the marine grade rocker type with integral indicator light to show when lights are energized. All switches shall be appropriately identified.

12-VOLT TESTING

The apparatus low voltage system shall be tested and certified. A copy of certification shall be provided to the purchaser with the apparatus.

Reserve Capacity Test
The unit shall be run until all engines, engine compartment temperatures are stabilized and the battery system is fully charged. The engine shall be shut off and the minimum continuous electrical load be activated for ten-(10) minutes. All electrical loads shall be shutoff after ten-(10) minutes and the battery system shall then be capable of restarting the engine.

Alternator Performance Test at Idle
Minimum continuous electrical loads shall be activated while the unit is at idle speed.

Alternator Performance Test at Full Load
The total continuous electrical load shall be activated with the engine running up to the manufacturer's governed speed. The test duration shall be a minimum of two-(2) hours. Activation of the load management system shall be permitted during the test. If however, an alarm is sounded by excessive battery discharge as detected by the system or a system voltage of less than 11.8 volts DC for a 12-volt nominal system for more than 120 seconds, shall be considered a test failure.

Low Voltage Alarm Test
The engine shall be shut off and the total continuous electrical load shall be activated and continue to be applied until the excessive battery discharge alarm activates. The test shall be considered a failure if the alarm has not sounded within 140 seconds after the voltage drops to 11.8 volts.

WIRING PROTECTION

All 12-volt wiring shall be run in high temperature, rated at a minimum of 275º F, split loom for easy access to wires when trouble shooting.

EMI/RFI PROTECTION

The apparatus shall be manufactured to incorporate the latest designs in the electrical system with components that are state of the art to insure electromagnetic interference (EMI) and radio frequency interference (RFI) emissions are suppressed at the source.

The apparatus shall have the ability to operate in typical fire and rescue situations with no adverse effects from EMI and/or RFI.

The apparatus shall utilize components that are fully protected and wiring that utilizes shielding and loop backgrounds where required to control EMI/RFI susceptibility. The apparatus shall be bonded through ground straps. Relays and solenoids that are suspect to generating spurious electromagnetic radiation are diode and/or resistor protected to prevent transient voltage spikes.

In order to prevent the radio frequency interference completely the purchaser shall be requested to provide a listing of the type, power output, and frequencies of all radio and bio medical equipment that is proposed to be used on the apparatus.

LIGHT(S), 8" LED COMPARTMENT

Four (4) On Scene Solutions “Access Series” 8" LED light(s) shall be provided with 15 HB, surface mount LED’s per 10” light section and produce a minimum of 200 lumens per 10” length. Each "Access Series" shall be capable of operating at a voltage of 9VDC to 14VDC. Each “Access Series” shall be cuttable in 2” increments and feature a high quality, impact resistant Lexan™ enclosure.

The light stick shall be waterproof and rated at 100,000 hours of service. Each light stick shall be provided with a 5 year free replacement warranty.

There shall be two-(2) lights installed in compartment L1 and compartment R1.

LIGHT(S), 28" LED COMPARTMENT

Ten (10) On Scene Solutions “Access Series” 28" LED light(s) shall be provided with 15 HB, surface mount LED’s per 10” light section and produce a minimum of 200 lumens per 10” length. Each "Access Series" shall be capable of operating at a voltage of 9VDC to 14VDC. Each “Access Series” shall be cuttable in 2” increments and feature a high quality, impact resistant Lexan™ enclosure.

The light stick shall be waterproof and rated at 100,000 hours of service. Each light stick shall be provided with a 5 year free replacement warranty.

There shall be two-(2) lights installed in compartment L2, compartment L5, compartment R2, compartment R5 and compartment B1.

LIGHT(S), 54" LED COMPARTMENT

Twelve (12) On Scene Solutions “Access Series” 54" LED light(s) shall be provided with 15 HB, surface mount LED’s per 10” light section and produce a minimum of 200 lumens per 10” length. Each "Access Series" shall be capable of operating at a voltage of 9VDC to 14VDC. Each “Access Series” shall be cuttable in 2” increments and feature a high quality, impact resistant Lexan™ enclosure.

The light stick shall be waterproof and rated at 100,000 hours of service. Each light stick shall be provided with a 5 year free replacement warranty.

There shall be two-(2) lights installed in compartment L3, compartment L4, compartment L6, compartment R3, compartment R4 and compartment R6.

DOOR AJAR SWITCHES

All apparatus body doors shall be provided with an auto door switch. These switches shall operate the compartment interior lights and activate the door ajar indicator on each side of apparatus body when the door is opened. There shall be a red door ajar light mounted in the cab, in view of the driver to indicate an unsecured door. There shall be a buzzer mounted in the cab that shall alert the driver.

LIGHTBAR, 72" WHELEN FREEDOM IV

A Whelen Edge Ultra Freedom IV Linear Super-LED LC Series 72" lightbar model F4N7QLED shall be provided. The F4N7QLED lightbar shall incorporate an anodized extruded heavy duty aluminum base and cover chassis with two front red corner modules with two red endcap modules, two interior white modules, and ten interior red modules. The front of each corner module shall consist of 12 red Linear Super-LEDs installed on a conformal coated PCB board with a thermal pad/aluminum bracket heat sink assembly. The short red endcap Linear Super-LED lights shall incorporate six red Super-LED installed on a conformal coated PCB board with a thermal pad/aluminum bracket heat sink assembly. The long red interior Linear Super-LED lights shall incorporate 12 red Super-LED installed on a conformal coated PCB board with a thermal pad/aluminum bracket heat sink assembly. The long white interior Linear Super-LED lights shall incorporate 12 white Super-LEDs installed on a conformal coated PCB board with a thermal pad/aluminum bracket heat sink assembly. The all modules will utilize a Diamond Optix ™ metalized reflector and two optic collimators. All electronic components shall be conformal coated to provide additional protection. The outer lens construction shall consist of two clear Uni-Dome top lenses with a clear center lens and utilize two liquid injection molded wiper seal dividers for maximum protection against environmental elements. Metal top shields installed on the Uni-Domes and center lens shall provide protection from climatic conditions and provides passive solar radiation to direct heat away from internal components.

The F4N7QLED shall have an electronic LC I/O board. The solid state I/O board shall be microprocessor controlled. The I/O board shall have built-in reverse polarity protection and output-short protection. The I/O board shall have the ability to flash twenty two Super-LED warning lights. There shall be a data bank of 12 Scan-Lock ™ flash patterns including steady burn with low power and cruise light functions. The cruise light function shall allow the user the four corner modules as marker courtesy lights. The F4N7QLED will have the capability to install a traffic advisor in the rear of the lightbar. The I/O board shall also have outputs to add takedown, alley lights, and auxiliary lights for each set of lights to be controlled in pairs.

All lightheads shall be installed in the F4N7QLED with the aid of black polycarbonate snap-in mounting brackets. The solid state lightbar shall be vibration resistant. The lightbar will contain a 17’ 2/c 8GA unterminated power cable and 17’ 17/c 22GA unterminated control cable. All electronic components are covered by a five year factory warranty. The F4N7QLED shall include a permanent mount kit with hardware.

The lightbar shall be controlled in the following manner:

Calling for Right of Way - All Positions
Blocking Right of Way - Clear shallnot be Active

The lights shall be activated by a single emergency light switch located on the master light switch panel in the cab.

The lightbar shall meet NFPA 1901 edition as configured.

LIGHTS, ZONE B/D UPPER FRONT BODY

Two-(2) Whelen M9 Series Super-LED model M9RC shall be installed, one-(1) each side of the upper front corner of the body. The warning light shall incorporate red Super-LEDs, a clear non-optic hard coated polycarbonate lens, clear optic collimator and utilize a metalized reflector for maximum output. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The encapsulated lens/reflector assembly and conformal coated PC board shall provide additional protection against environmental elements. The solid state warning lights shall be vibration resistant. The self-contained flashing light shall have 164 Scan-Lock flash patterns including synchronize feature and steady burn. The warning light is covered by a five year factory warranty. The surface mount module includes a M9FC chrome flange and hardware for horizontal mounting.

LIGHTS, ZONE B/D UPPER REAR BODY

Two-(2) Whelen M9 Series Super-LED model M9RC shall be installed, one-(1) each side of the upper rear corner of the body. The warning light shall incorporate red Super-LEDs, a clear non-optic hard coated polycarbonate lens, clear optic collimator and utilize a metalized reflector for maximum output. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The encapsulated lens/reflector assembly and conformal coated PC board shall provide additional protection against environmental elements. The solid state warning lights shall be vibration resistant. The self-contained flashing light shall have 164 Scan-Lock flash patterns including synchronize feature and steady burn. The warning light is covered by a five year factory warranty. The surface mount module includes a M9FC chrome flange and hardware for horizontal mounting.

LIGHTS, ZONE C UPPER OUTBOARD

Two-(2) Whelen M6 Series Super-LED model M6RC shall be installed, one-(1) each side on the upper rear of the apparatus in the outboard position. The warning light shall incorporate red Super-LEDs, a clear non-optic hard coated polycarbonate lens, clear optic collimator and utilize a metalized reflector for maximum output. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The encapsulated lens/reflector assembly and conformal coated PC board shall provide additional protection against environmental elements. The solid state warning lights shall be vibration resistant. The self-contained flashing light shall have 164 Scan-Lock flash patterns including synchronize feature and steady burn. The warning light is covered by a five year factory warranty. The surface mount module includes a M6FC chrome flange and hardware for horizontal mounting.

LIGHTS, ZONE C UPPER MIDDLE

Two-(2) Whelen M6 Series Super-LED model M6RC shall be installed, one-(1) each side on the upper rear of the apparatus in the middle position. The warning light shall incorporate red Super-LEDs, a clear non-optic hard coated polycarbonate lens, clear optic collimator and utilize a metalized reflector for maximum output. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The encapsulated lens/reflector assembly and conformal coated PC board shall provide additional protection against environmental elements. The solid state warning lights shall be vibration resistant. The self-contained flashing light shall have 164 Scan-Lock flash patterns including synchronize feature and steady burn. The warning light is covered by a five year factory warranty. The surface mount module includes a M6FC chrome flange and hardware for horizontal mounting.

LIGHTS, ZONE B/D FRONT LOWER

Two-(2) Whelen 600 Series Super-LED model 60R02FCR lights shall be installed, one-(1) each side forward portion of the apparatus. The warning light shall incorporate red Linear Super-LEDs, a clear optic hard coated polycarbonate lens, and utilize a metalized reflector with integrated TIR hybrid optics for maximum output. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The encapsulated lens/reflector assembly and conformal coated PC board shall provide additional protection against environmental elements. The solid state warning lights shall be vibration resistant. The self-contained flashing light shall have 14 Scan-Lock flash patterns including synchronize feature and steady burn. The warning light is covered by a five year factory warranty. The surface mount module includes a chrome flange and hardware for horizontal mounting.

The lights shall be located, one-(1) each side, on the bumper extension ends.

LIGHTS, ZONE B/D FRONT LOWER

Two-(2) Whelen 600 Series Super-LED model 60R02FCR lights shall be installed, one-(1) each side forward portion of the apparatus. The warning light shall incorporate red Linear Super-LEDs, a clear optic hard coated polycarbonate lens, and utilize a metalized reflector with integrated TIR hybrid optics for maximum output. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The encapsulated lens/reflector assembly and conformal coated PC board shall provide additional protection against environmental elements. The solid state warning lights shall be vibration resistant. The self-contained flashing light shall have 14 Scan-Lock flash patterns including synchronize feature and steady burn. The warning light is covered by a five year factory warranty. The surface mount module includes a chrome flange and hardware for horizontal mounting.

The lights shall be located, one-(1) each side, in the cab wheel well area.

LIGHTS, ZONE B/D MIDSHIP LOWER

Two-(2) Whelen LINZ6 Series Super-LED model LINZ6R lights shall be installed, one-(1) each side midship of the apparatus. The warning light shall incorporate six red Super-LEDs, a clear non-optic hard coated polycarbonate lens, clear optic collimator and utilize a metalized reflector for maximum output. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The encapsulated lens/reflector assembly and conformal coated PC board shall provide additional protection against environmental elements. The solid state warning lights shall be vibration resistant. The self-contained flashing light shall have 69 Scan-Lock flash patterns including synchronize feature and steady burn. The warning light is covered by a five year factory warranty. The surface mount module includes a black flange and hardware for horizontal mounting.

There shall be a light located, one-(1) each side, below compartment L1 and R1 and two-(2) each side in the body whe
well area.

LIGHTS, ZONE B/D REAR LOWER

Two-(2) Whelen LINZ6 Series Super-LED model LINZ6R lights shall be installed, one-(1) each side rearward portion of the apparatus. The warning light shall incorporate six red Super-LEDs, a clear non-optic hard coated polycarbonate lens, clear optic collimator and utilize a metalized reflector for maximum output. The hard coated lens shall provide extended

life/luster protection against UV and chemical stresses. The encapsulated lens/reflector assembly and conformal coated PC board shall provide additional protection against environmental elements. The solid state warning lights shall be vibration resistant. The self-contained flashing light shall have 69 Scan-Lock flash patterns including synchronize feature and steady burn. The warning light is covered by a five year factory warranty. The surface mount module includes a black flange and hardware for horizontal mounting.

There shall be a light located, one-(1) each side, below compartment L6 and R6.

LIGHTS, ZONE C LOWER

Two-(2) Whelen M6 Series Super-LED model M6RC shall be installed, one-(1) each side on the lower rear of the apparatus. The warning light shall incorporate red Super-LEDs, a clear non-optic hard coated polycarbonate lens, clear optic collimator and utilize a metalized reflector for maximum output. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The encapsulated lens/reflector assembly and conformal coated PC board shall provide additional protection against environmental elements. The solid state warning lights shall be vibration resistant. The self-contained flashing light shall have 164 Scan-Lock flash patterns including synchronize feature and steady burn. The warning light is covered by a five year factory warranty.

STOP, TURN AND BACK-UP LIGHTS

Stop, turn and backup lights shall be Whelen M6 Series, individual fixtures. The red stop (LED) light shall be model M6BTT, the turn light shall be a model M6T amber (LED) type with directional arrow, and the backup light shall be a white (LED) model M6BUW.

HOUSING, REAR TAIL LIGHT ASSEMBLY

The fixtures shall be mounted on each rear face of the body in a model M6FCV4, four-(4) lighthead chrome housing.

LIGHT, REAR DIRECTIONAL

A Whelen Traffic Advisor model TAM63 shall be provided. The traffic advisor shall incorporate a rectangular extruded black aluminum chassis with six amber TIR3™ Super-LED® lights. The TIR3 lights shall be installed in a clear optic hard coated polycarbonate lens housing. The TIR3 lights shall incorporate three amber Super-LEDs, a clear horizontal optic hard coated polycarbonate lens housing, and utilize a TIR reflector for maximum output. The hard coated lens housing shall provide extended life/luster protection against UV and chemical stresses. The encapsulated TIR3 lens/reflector assembly and conformal coated PC board shall provide additional protection against environmental elements.

The solid state traffic advisor shall be vibration resistant. The TAM63 shall include model TACTLD1 control head that includes remote flash control. The TACTLD1 shall have four programmable directional sequence flash patterns of left, right, split, and flash. The TACTLD1 includes an auxiliary flash option when attached to +12v DC to flash the traffic advisor. The LED display on the control head shall replicate the TAM63 directional sequence. The traffic advisor control head shall have a rear panel dip switch for the ability to set eight additional Scan-Lock™ flash patterns. The TAM63 will

contain a 15' interconnecting cable with quick disconnect feature. The LED modules are covered by a five year factory warranty. The TAM63 shall have for mounting rear PEM nuts/thu-bolt end caps with.

The rear directional light shall be recessed mounted in the body.

CLEARANCE LIGHTS AND REFLECTORS

Clearance lights and reflectors shall be LED lights, which include (2) red marker lights, (4) red rectangular reflectors, (2) amber rectangular reflectors and (1) red three light cluster recessed in the rear step.

LIGHT, LICENSE PLATE

A Whelen OS Series LED model 0SC0EDCR shall be provided at the rear of the apparatus to illuminate the license plate. The steady burn illumination light shall incorporate three clear LED and a clear non-optic hard coated polycarbonate lens. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The encapsulated assembly shall provide protection against environmental elements. The solid state illumination light shall be vibration resistant. An installation kit including mounting hardware, neoprene gasket and 45 degree angle chrome housing shall be provided for surface mounting. The 0AC0EDCR will contain a 12" non-terminated pigtail. The illumination light meets SAE J592 requirements and is covered by a five year factory warranty.

LIGHT(S), LED PERIMETER ILLUMINATION

Six (6) Whelen 3" Round Super-LED® model 3SC0CDCR perimeter illumination light(s) shall be provided as specified. The steady burn illumination light shall incorporate six clear Super-LED and a clear non-optic hard coated polycarbonate lens for maximum output. The hard coated sealed lens shall provide extended life/luster protection against UV and chemical stresses. The light shall be wet sealed and vacuum tested to ensure proper sealing. The conformal coated PC board, powder coated die cast housing, and exterior rubber gasket shall provide additional protection against environmental elements. The 3SC0CDCR shall provide 360 usable lumens. The solid state illumination light shall be vibration resistant. The 3SC0CDCR will contain a 6" unterminated pigtail. The illumination light is covered by a five year factory warranty. The 3SC0CDCR requires a ¾" wire entry hole in the body of the vehicle and includes mounting screws and grommet.

There shall be three-(3) lights shall be located on the right rear of the apparatus to illuminate the access ladder, one-(1) each side front of hose bed and one-(1) located in the upper walkway landing area.

LIGHTS, 12-VOLT SURFACE MOUNT SCENE

Two (2) pair of Whelen M6 Series Model M6ZC scene lights shall be provided and installed on the apparatus. The steady burn scene light shall incorporate Linear Super-LED® and Smart LED® technology. The M6ZC configuration shall consist of 12 clear gradient Super-LED's and a clear optic polycarbonate lens. The scene light, with the aid of two screws, shall have the ability to be installed as a surface mount scene light. The M6ZC shall meet KKK 1822F and AMD024 specifications.

The lens/reflector assembly shall be sealed and resistant to water, moisture, dust, and other environmental conditions. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The light engine

shall be installed at the rear of the unit and be vacuum tested to ensure proper sealing. The PC board shall be conformal coated for additional protection.

The lights shall be installed, one-(1) each side of the cab between the front and rear doors.

The cab mounted scene lights shall be controlled by individual scene light switches located in the cab labeled LEFT SCENE and RIGHT SCENE and when the respective side cab door(s) are opened.

The scene lights shall be installed, one-(1) each side on the upper rear outboard corners of the body.

The upper rear body mounted scene lights shall be controlled by a scene light switch located in the cab labeled REAR SCENE and when the transmission is placed into reverse.

LIGHT, CENTER BROW

One-(1) brow light shall be installed on the front cab roof, centered. The mounting bracket shall be attached to the bottom of the lamp head and be machined to conform to the roof radius. Wiring shall extend from a weatherproof strain relief at the rear of the lamp head.

One (1) Whelen Pioneer Plus Model PFP2 light head(s) shall be provided. The 168 watt +12v DC Pioneer lighthead shall incorporate Super-LED® dual flood light installed in a die-cast white powder coated aluminum housing. The PFP2 configuration shall consist of 60 white Super-LEDs with a clear optic collimator/metalized reflector assembly and a clear non-optic polycarbonate lens. The Pioneer flood light shall have 16,000 usable lumens.

The lens/reflector assembly shall utilize a liquid injected molded silicone gasket to be resistant to water, moisture, dust, and other environmental conditions. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The PFP2 shall be shall be vibration resistant. The Pioneer PC boards shall be conformal coated for additional protection. Two breathable membrane patches shall be installed to the bottom of the housing to maintain a consistent internal pressure. The PFP2 shall have extended LED operation with low current consumption and low operating temperature. The Pioneer light shall be SAE 1113-42 compliant and Class 5 testing for EMI. The PFP2 is covered by a five year factory warranty.

The cab mounted brow light(s) shall be controlled by a light switch located in the cab labeled BROW LIGHT.

LIGHTS, 12-VOLT RECESSED MOUNT SCENE

One (1) pair of Whelen Pioneer Plus Model PFS2 shall be provided. The 150 watt +12v DC Pioneer lighthead shall incorporate Super-LED® combination flood/spot light installed in a die-cast white powder coated aluminum housing. The PFS2 configuration shall consist of 36 white Super-LEDs for the spot light with a specialized spot reflector on the bottom, 30 white Super-LEDs in the flood light with a clear optic collimator/metalized reflector assembly on the top, and a clear non-optic polycarbonate lens. The Pioneer flood/spot light shall have 16,200 usable lumens. The PFS2 new combination optic design projects light directly down at 5° and producing illumination to the side of the vehicle arching upward to a 90° pattern of light.

The metalized lens/reflector assembly shall utilize a liquid injected molded silicone gasket to be resistant to water, moisture, dust, and other environmental conditions. The hard coated lens shall provide extended life/luster protection against UV and chemical stresses. The PFS2 shall be shall be vibration resistant. The Pioneer™ PC boards shall be conformal coated for additional protection. Two breathable membrane patches shall be installed to the bottom of the housing to maintain a consistent internal pressure. The PFS2 shall have extended LED operation with low current consumption and low operating temperature.

The PFS2 shall be furnished with a 20' 4/C 16GA input cable. The Pioneer shall have the ability to flash as a secondary warning light in the "Clearing Right of Way" mode when installed with an external flasher, model number PFLASH, purchased separately. The Pioneer shall be SAE 1113-42 compliant and Class 5 testing for EMI. The PFS2 is covered by a five year factory warranty.

== Paint - MVP Pumper - 1606.001 06/03/16 ==

BODY PAINT FINISH, SINGLE COLOR

The body exterior shall have no mounted components prior to painting to assure full coverage of metal treatments. Box pan compartment doors shall be painted separately to assure proper paint coverage on body, doorjambs, and door edges.

All painted surfaces shall follow the following procedure to insure a lasting finish:

- Metal surfaces shall be sanded to remove all burrs and imperfections, before etching and treatment.
- A wax & grease solvent shall be used to clean and prep the aluminum surface. The surface shall then be rinsed with fresh water. This step removes wax, grease and other surface contaminants, thus leaving a bright, clean, and conditioned surface.
- A self-etching, metal primer shall be applied next. The self-etching primer shall fill all of the minor imperfections, scratches, etc. in the metal. This step produces a corrosion resisting conversion coating that prevents off oxidation and other surface contaminants leaving a surface that gives excellent paint adhesion.
- A sandable primer shall be sprayed on the metal that seals the surface for the polyurethane paint. A minimum coating thickness of 2 MIL shall be applied. Primer is then sanded smooth leaving the best surface for topcoat.
- The apparatus body shall then be painted with a minimum of three-(3) coats of color.

These steps are followed as recommended by the paint manufacturer to provide a lasting and high quality gloss finish. DuPont shall provide all paint products.

BODY PAINT COLOR/CODE

The customer shall specify the exact paint color and number for the completed apparatus body. The paint color shall then be cross-referenced to a DuPont number. The apparatus body shall then be painted as described in the paint section with this color.

The body color/code shall be Blue 869761 EW.

PAINT, INTERIOR COMPARTMENT

The interior of the body compartments shall be painted with “F-Shield”.

“F-Shield” is a 100% solids, state-of-the art, VOC-free, plural-component, pure polyuria elastomeric membrane. This seamless system exhibits extraordinary performance characteristics. F-Shield is based on amine-terminated polyether resins, amine chain extenders and MDI pre-polymers. This membrane achieves an extremely tough, flexible, chemical and abuse resistant finish. F-Shield shall be used in specified areas for maximum protection.

PAINT, INTERIOR COMPARTMENT HARDWARE

The interior body compartment shelves, trays, dividers, etc. shall be painted with dark gray "F-Shield".

“F-Shield” is a 100% solids, state-of-the art, VOC-free, plural-component, pure polyuria elastomeric membrane. This seamless system exhibits extraordinary performance characteristics. F-Shield is based on amine-terminated polyether resins, amine chain extenders and MDI pre-polymers. This membrane achieves an extremely tough, flexible, chemical and abuse resistant finish. F-Shield shall be used in specified areas for maximum protection.

SCOTCHLITE STRIPE

There shall be a 6" wide Scotchlite stripe, with an additional 1" wide stripe located above and below. The stripes shall be located no higher than 60" from the ground installed on the apparatus cab and body. The stripes shall cover a minimum of sixty percent (60%) of each side of the apparatus and forty percent (40%) of the front and rear of the apparatus. The stripe shall be installed to meet the current NFPA requirements.

The striping color shall be specified by the department.

The main stripe shall be 3M 5000 white.

The pin/secondary stripe color shall be specified by the department.

The secondary stripes shall be silver to match H5985.

The reflective stripe shall run straight from the headlights to the front body compartments with a hockey stick design and run to the rear of the body on each side of the apparatus.

STRIPE, REAR CHEVERON

A minimum of fifty percent of the rear vertical surface of the unit shall be overlaid with a reflective material, installed in an alternating "Chevron" pattern (sloping down and away from the centerline) at a 45-degree angle. Each stripe shall be 6” wide and the colors of stripping shall be in compliance, with the current edition of NFPA 1901.

The Chevron striping shall be 3M red and lime green.

LETTERING

There shall be a maximum of sixty (60) 3" tall Spun Gold letters applied to the apparatus. The lettering shall also have a one color shade applied.

== Warranty / Manuals - Pumpers Custom MVP - 1606.001 06/03/16 ==

WARRANTY, BODY PARTS & LABOR

There shall be a two-(2) year body mechanical parts and labor warranty provided with the apparatus. The apparatus shall be free of defects in material and workmanship for a warranty period of two-(2) years after the date on which the apparatus is first delivered to the original purchaser.

WARRANTY, CAB/CHASSIS PARTS & LABOR

The manufacturer shall provide a limited parts and labor warranty to the purchaser of the cab and chassis for a period of two-(2) years or 24,000 miles, whichever occurs first. The warranty period shall commence on the date the vehicle is delivered to the end user.

WARRANTY, CAB STRUCTURAL

The cab structure shall be warranted for a period of ten-(10) years or one hundred thousand (100,000) miles which ever may occur first. The warranty period shall commence on the date the vehicle is delivered to the end user.

WARRANTY, BODY STRUCTURAL

There shall be a ten-(10) year body warranty on each new fire body/heavy-duty rescue apparatus. The bodies are to be free of structural failures caused by defective design or workmanship for a warranty period of ten-(10) years after the date on which the vehicle is first delivered to the original purchaser or 100,000 miles, whichever occurs first.

WARRANTY, CAB PAINT

The cab and chassis shall be covered by a limited manufacturer paint warranty which shall be in effect for ten-(10) years from the first owner’s date of purchase or in service or the first 100,000 actual miles, whichever occurs first.The warranty period shall commence on the date the vehicle is delivered to the end user.

WARRANTY, BODY PAINT/CORROSION

There shall be a four-(4) year paint/corrosion warranty provided. This warranty shall cover perforation, blistering, peeling, or any other adhesion defects caused by defective manufacturing methods, or material selections, for a warranty period of four-(4) years or 100,000 miles which occurs first, after the date of which the vehicle is first delivered to the original purchaser.

WARRANTY, FRAME RAIL

The chassis frame and crossmembers shall be provided with a lifetime material and workmanship limited warranty to the original purchaser. The warranty shall cover the chassis frame and crossmembers as being free from defects in material and workmanship that would arise under normal use and service.

Proposals offering warranties for frames not including cross members shall not be considered.

WARRANTY, MERITOR AXLE

FRONT AXLE

The front axle shall be warranted by Meritor for two-(2) years with unlimited miles under the general service application.

REAR AXLE

The rear axle shall be warranted by Meritor for two-(2) years with unlimited miles under the general service application.

WARRANTY, DIESEL ENGINE

The Cummins engine shall be warranted for a period of five-(5) years or 100,000 miles, whichever occurs first.

WARRANTY, TRANSMISSION

The Allison EVS series transmission shall be warranted for a period of five-(5) years with unlimited mileage. Parts and labor shall be included in the warranty.

WARRANTY, ANTI LOCK BRAKE SYSTEM

The ABS brake system shall be warranted for a period of three-(3) years/300,000 miles.

WARRANTY, HALE FIRE PUMP

EXPRESS WARRANTY
Hale Products, Incorporated ("Hale") hereby warrants to the original buyer that products manufactured by Hale are free of defects in material and workmanship for a period of five-(5) years from the date the product is first placed into service or five and one-half (5-1/2) years from date of shipment by Hale, whichever period shall be first to expire. Within this warranty period Hale will cover parts and labor for the first two-(2) years and parts only for years three (3) through five (5).

LIMITATIONS
HALE'S obligation is expressly conditioned on the Product being:

- Subjected to normal use and service
- Properly installed and maintained in accordance with HALE'S Instruction Manual and Industry Standards as to recommended service and procedures
- Not damaged due to abuse, misuse, negligence, or accidental causes

- Not altered, modified, serviced (non-routine), or repaired other than by an Authorized Service facility
- Manufactured per design and specifications submitted by the original buyer
- Used with an appropriate engine as determined by the engine manufacturers published data
- Excluded are normal wear items identified as but not limited to packing, strainers, anodes, filters, light bulbs, intake screens, wear rings, mechanical seals, etc.

WARRANTY, PLUMBING SYSTEM

There shall be a ten-(10) year pump plumbing warranty provided. The warranty covers all plumbing components used in construction of the fire apparatus water/foam plumbing system against defects and workmanship, provided the apparatus is used in a normal and reasonable manner. The warranty is extended only to the original user-purchaser for a period of 10 years from the date of delivery.

WARRANTY, WATER TANK

The poly tank manufacturer warrants each tank to be free from manufacturing defects in material and workmanship for the service life of the original vehicle (vehicle must be actively used in fire suppression). The warrant is transferable, with written approval of the manufacturer. Each tank is inspected and tested for leaks prior to leaving the manufacturing facility. The tank shall be installed in the vehicle in accordance to the manufacture's guidelines.

There are no warranties, expressed or implied, which extend beyond the description of the face hereof. There is no expressed or implied warranty of merchantability or a warranty of fitness for a particular purpose. Additional, this warranty is in lieu of all other obligations or liabilities on the part of the Manufacturer.

MANUAL, CHASSIS OPERATION

There shall be two-(2) digital copies of the chassis operation manual provided with the chassis. The digital data shall include a parts list specific to the chassis model.

MANUALS, ENGINE AND TRANSMISSION OPERATION

There shall be two-(2) printed hard copy sets of the engine operation manual and two-(2) printed hard copy sets of the transmission operation manual specific to the model ordered included with the chassis.

MANUALS, APPARATUS BODY

The contractor shall supply, at time of delivery, at two-(2) sets of complete operation and service documentation covering the completed apparatus as delivered and accepted.

The documentation shall address at least the inspection, service, and operations of the fire apparatus and all major components thereof.

MANUALS, FIRE PUMP

There shall be two-(2) copies of pump manuals provided to the department.

SAFETY GUIDE

One-(1) copy of the latest edition of FAMA's Fire Apparatus Safety Guide shall be provided with the completed apparatus.

WIRING DIAGRAMS, CAB/CHASSIS

There will be a complete digital set of electrical schematics provided at the time of delivery. These schematics will have each circuit properly numbered and in color.

The schematic will show each connector in the circuitry and the position in which each circuit enters, exits, or terminates. The schematic will be drawn in such a manner as to allow individual circuitry to be followed throughout the apparatus.

These schematics will not have the circuitry condensed into a single line or sets of lines. Multiple sheets will be acceptable so long as each of the harnesses is properly identified to the connecting sheet and harness. There will be a border around the paper(s), which contain alpha and numeric characters for indexing coordinate reference. There will be an indexing or part reference document for quick location of items shown on the schematics.

WIRING DIAGRAMS, APPARATUS BODY

There will be a complete set of generic electrical schematics provided at the time of delivery. These schematics will have each circuit properly numbered and in color.

The schematic will show each connector in the circuitry and the position in which each circuit enters, exits, or terminates. The schematic will be drawn in such a manner as to allow individual circuitry to be followed throughout the apparatus.

These schematics will not have the circuitry condensed into a single line or sets of lines. Multiple sheets will be acceptable so long as each of the harnesses is properly identified to the connecting sheet and harness. There will be a border around the paper(s), which contain alpha and numeric characters for indexing coordinate reference. There will be an indexing or part reference document for quick location of items shown on the schematics.

This document will refer the user to the appropriate drawing and page number and to sections of the drawing(s) by the means of letter and number coordinates. The schematic will show all harnesses used in the apparatus cab, chassis and body that is supplied by the chassis and body manufacturer.

Modifications to the manufactured standard harnesses are to be documented and properly indexed for quick identification.

A complete wire number, color, and function listing will accompany the schematics.

== Loose Equipment Pkg. - Pumper MVP - 1606.001 06/03/16 ==

LADDER(S), 10' FOLDING

There shall be one (1) Alco-Lite Model FL-10, 10' folding ladder(s) provided with the apparatus. The ladder(s) shall be aluminum, single-section with rubber feet. The ladder(s) shall meet or exceed the latest NFPA standards.

LADDER(S), 14' ROOF

There shall be one (1) Alco-Lite model PRL-14, 14' roof ladder(s) supplied with the apparatus. The ladder(s) shall be aluminum, single-section with folding steel roof hooks on one end and steel spikes at the other. The ladder(s) shall meet or exceed the latest NFPA standards.

LADDER(S), 24' 2-SECTION EXTENSION

There shall be one (1) Alco-Lite model PEL-24, 24' two-section ladder(s) supplied with the apparatus. The extension ladder(s) shall be aluminum with steel spurs on one end. The ladder(s) shall meet or exceed the latest NFPA standards.

LADDER(S), LITTLE GIANT

There shall be one (1) Little Giant multi-purpose folding ladder(s) supplied with the apparatus.

30 DEGREE ELBOW(S) - 3" FNST X 5" STORZ

There shall be one (1) Kochek model SKE53R, 3" FNST rocker lug x 5" Storz, adapter supplied with the apparatus. The elbow(s) shall have a 30-degree turn down.

The elbow shall be located on the 3" right side discharge.

CAP(S), 5" STORZ

There shall be one (1) Kochek model CC507, 5" Storz cap(s) with chain provided with the apparatus.

The cap shall be located on the 3" right side discharge elbow.

HANDLIGHT(S), STREAMLIGHT FIRE VULCAN

Four (4) waterproof Streamlight Fire Vulcan series light(s), part number 44451, shall be provided. The light(s) shall have a orange high-impact ABS thermoplastic housing, rubberized impact bumper, lens ring, shoulder strap and cushioned-grip handle. The light(s) shall contain C4 LED technology and taillight LEDs that operate in blinking and steady modes. The LED bulb shall be provide up to 80,000 peak beam candlepower rated at 145 lumens. Ultra bright blue tail light LED's are provided to make certain you can be seen even in thick smoke.

The Lithium-Ion rechargeable cells recharge in 5 hours and provides run times up to 3 hrs. with steady High LED & taillights in operation.

The vehicle-mounted direct-wire charging rack(s) shall be wired direct to the batteries of the 12-volt DC system on the apparatus.

WHEEL CHOCKS WITH BRACKETS

There shall be one (1) pair of Ziamatic model SAC-44 folding wheel chocks with SQCH-44-H horizontal chock holder(s) mounted on the apparatus body as directed by the fire department.

The chocks shall be located below compartment L4.

STRAPS(S), QUIC-STRAP MOUNTING SYSTEM

There shall be two (2) Ziamatic UMVS series utility mounting Quic-Strap mounting system(s) installed on the apparatus as specified by the Fire Department. Two-(2) footman loops shall be installed with each mounting system.

RESCUE TOOL PACKAGE, CUTTER

There shall be one-(1) Hurst eDRAULICS cutter package model S 700E2 provided with the apparatus. The package shall include; S 700E2 cutter, charger and two-(2) EXL batteries.

RESCUE TOOL PACKAGE, SPREADER

There shall be one-(1) Hurst eDRAULICS spreader package model SP 555E2 provided with the apparatus. The package shall include; SP 555E2 cutter, charger and two-(2) EXL batteries.

RESCUE TOOL PACKAGE, RAM

There shall be one-(1) Hurst eDRAULICS ram package model R 421E provided with the apparatus. The package shall include; R 421E cutter, charger and two-(2) EXL batteries.

== Adminstration / Promotional - 1606.001 06/03/16 ==

HALL BUICK - GMC

Quote

Date	October 12, 2016
Valid Until	January 1, 2016
Quote #	10086-0002
Customer ID	

Customer:

City of Weslaco Fire Department

Quote/Project Description

Custom Rescue Pumper

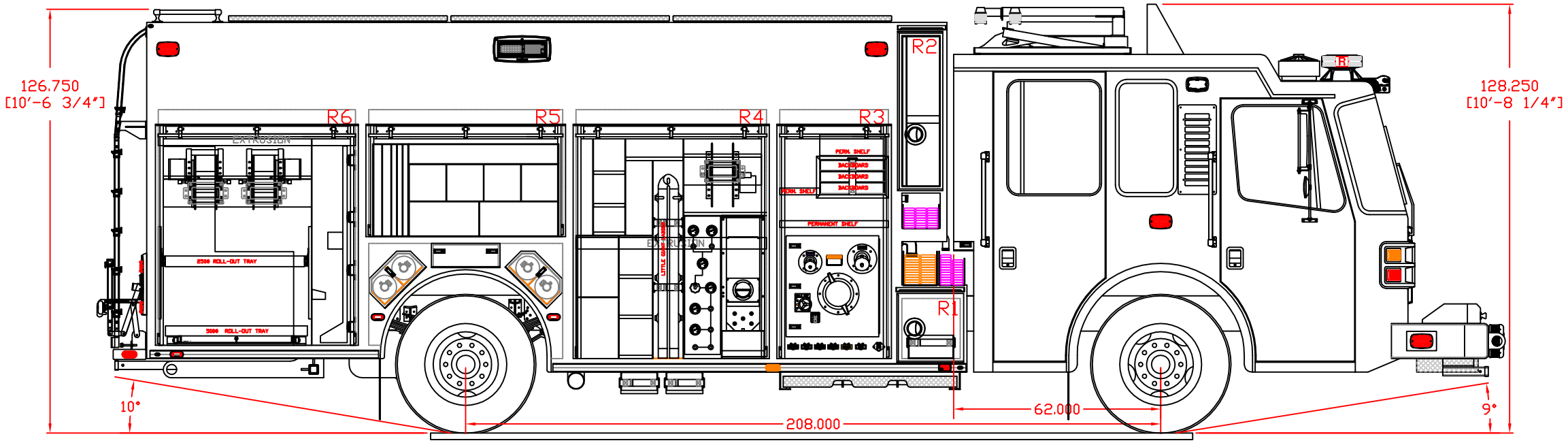
Description	Line Total
One-(1) custom MVP rescue pumper mounted on a Cinder chassis	$615,534.00
Loose equipment	$54,466.00

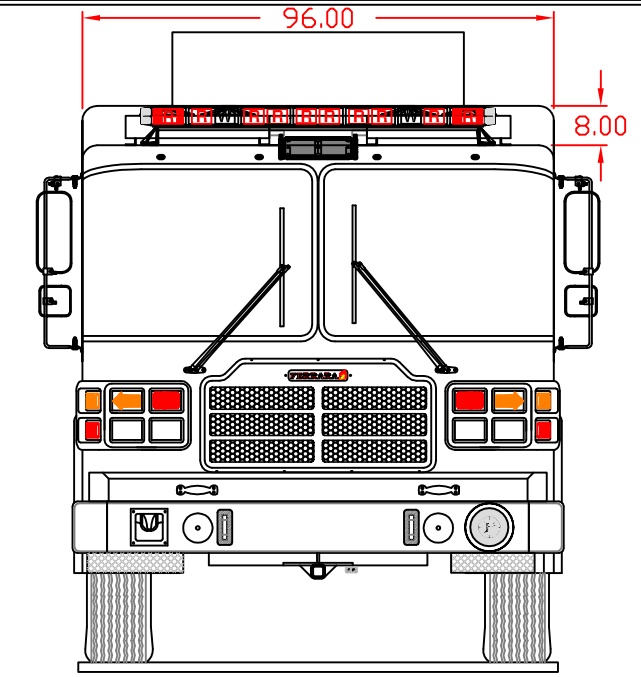
Special Notes and Instructions

Total $ **$670,000.00**

Above information is not an invoice and only an estimate of services/goods described above.

Thank you for your business!

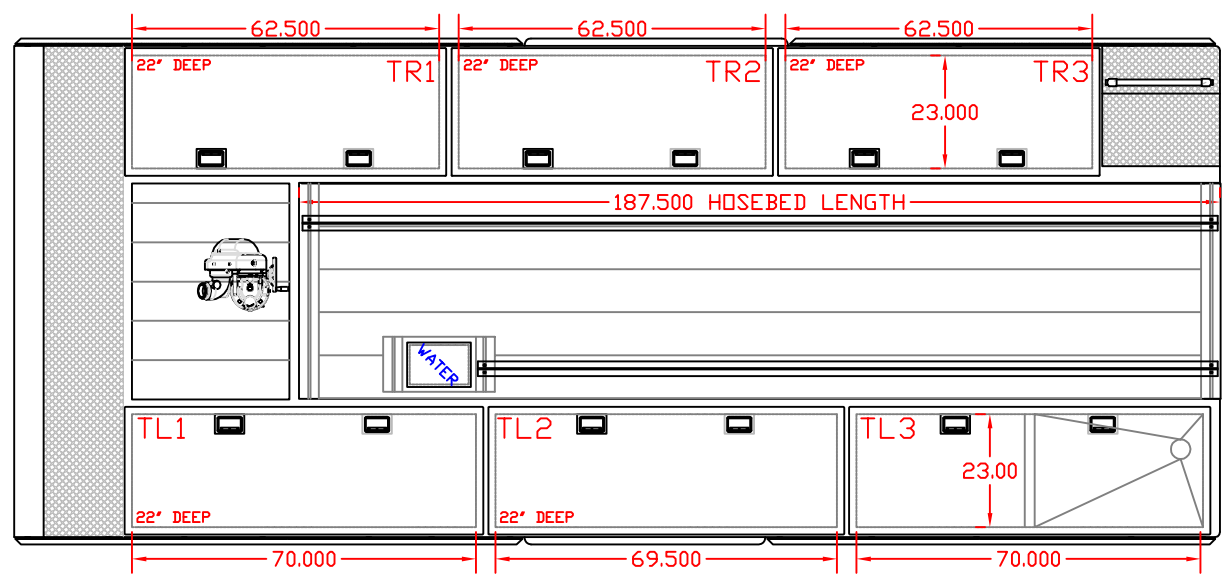




COMPARTMENT DIMENSIONS		
COMPT.	OPENING	INTERIOR
L1	17.5W X 17.5H	17.5W X 17.5H X UREA TANK
R1	17.5W X 17.5H	17.5W X 17.5H X 21D
L2	9.5W X 44.5H	9.5W X 44.5H X 85.5D UPPER 24D LOWER
R2	9.5W X 44.5H	9.5W X 44.5H X 15D UPPER 27.5D LOWER
L3/R3	29.5W X 65H	32.5W X 74H X 27.5D UPPER PUMP PANEL LOWER
L4/R4	54W X 65H	57W X 74H X 27.5D
L5/R5	55W X 29H	58W X 38H X 27.5D
L6/R6	56W X 61H	59W X 70H X 27.5D UPPER TRANSVERSE LOWER
B1	41W X 50H	4W X 59H X 20.5D UPPER 44D LOWER

IT IS UNLAWFUL TO COPY OR REPRODUCE ANY OR ALL OF THIS DRAWING WITHOUT THE WRITTEN PERMISSION OF FERRARA FIRE APPARATUS. ANY UNAUTHORIZED REPRODUCTION WILL RESULT IN PROSECUTION TO THE FULLEST EXTENT OF THE LAW. DIMENSIONS AND ITEM LOCATIONS ARE APPROXIMATE AND ARE SUBJECT TO DEVIATIONS THAT MAY OCCUR OR BE NECESSARY DURING CONSTRUCTION. SOME DETAILS MAY NOT BE SHOWN.

LADDER STORAGE COMPLIMENT
1-24' 2-SECTION LADDER (PEL-24)
1-14' ROOF LADDER (PRL-14)
1-10' ATTIC LADDER (FL-10)
2-PIKE POLE TUBES



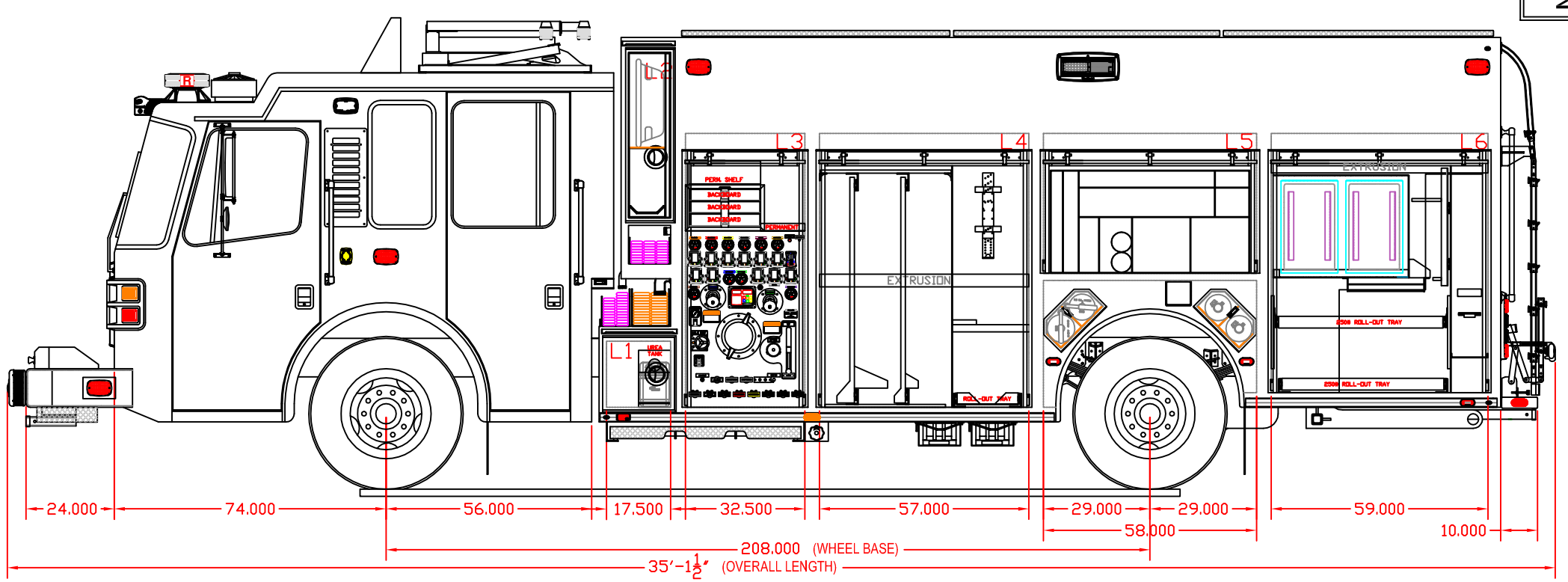
CUSTOMER APPROVAL
NAME:
BY:
TITLE:
DATE:

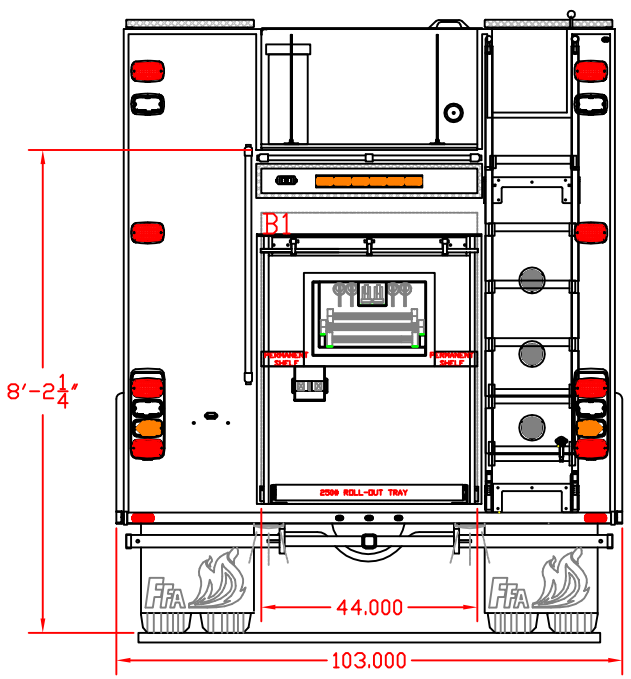
THIS DRAWING IS A VISUAL REPRESENTATION OF A SPECIFIED APPARATUS. IN THE EVENT OF DISCREPANCIES BETWEEN SPECIFICATIONS AND DRAWING, THE SPECIFICATIONS SHALL PREVAIL.

FERRARA
FERRARA FIRE APPARATUS, INCORPORATED

CINDER MVP DEMO

2000 GPM HALE QMAX PUMP
1000 GALLON WATER TANK
TOTAL STORAGE: 768 CUBIC FEET
COMPARTMENT STORAGE: 614 CUBIC FEET
LADDER STORAGE: 26 CUBIC FEET
HOSE STORAGE: 128 CUBIC FEET
H-5393





Standardized Agenda Request Form

Date of Meeting: November 1, 2016	**Agenda Item No.** (to be assigned by CSO)**:** 2016-532

From:
Mardoqueo Hinojosa

Subject:
Discussion and consideration to approve final payment to Pavement Markings, LLC for the 6th Street Striping Project for an amount not to exceed $129,709.20 and authorize Mayor to execute any related documents. Possible Action. (Staffed by Planning and Code Enforcement Department).

Background:
6th Street Striping Project has been completed by Pavement Markings, LLC. The project included striping along the following streets:
1) 6th Street from west City limits to US Business Highway 83
2) Border Avenue from US Business 83 to 18th Street
3) 18th Street from Border Avenue to Westgate Drive
4) Westgate Drive from 6th Street to 18th Street
5) Intersection of 8th Street and Bridge Avenue
6) Airport Drive between 6th and 10th Street

Original Contract amount was for $154,611.82. A Change Order was issued to reduce contract by $40,500 to remove signage and perform task with City labor. Overruns in the project includes item 5 and item 1 (between Westgate Drive and west City limits). A grant from Texas A&M University - Kingsville will be received for approximately $29,800.01 for bike lane materials.

Funding Source (budget code, if applicable)**:**

Amount:	Term of Impact:	Identified in Current Budget:

Additional Action Prompted:
Mayor's Signature

If item previously considered, provide date and action by Commission:

If item requires Publication Notice, provide date and periodical of publication; indicate if comments received from letters mailed to property owners:

Advisory Review, if any (name of board/committee, date of action, recommendation)**:**

Mardoqueo Hinojosa	Created/Initiated
Mardoqueo Hinojosa	Approved
Mike Perez	Final Approval

City Manager Comments:

Staff Recommendation:

Staff recommends approval.
Attachments, if any: Invoice 1, Invoice 2, Invoice 3
Responsibilities upon Approval: Staff will execute close-out documents with contractor.

Pavement Markings, Inc.
7010 N. FM 493
Donna, TX 78537
Tel (956) 464-0009 Fax (956) 464-5677
Email: villerg37@aol.com

Invoice

Number: 6152

Date: 10/14/2016

Bill To

CITY OF WESLACO
255 S. KANSAS
WESLACO, TX 78596
956-973-3146, FAX, 447-3298

PROJECT

6TH STREET STRIPING
WESTGATE DR TO BUS HWY 83

CONTROL	PROJECT	BID DATE	P. O. #	ENGINEER
		7/22/2016 3PM	71659	

Description	Quantity	Unit Price	Amount
PROPOSED BIKE LANE STRIPING PHASE 1			
666-2036 PAV MRK TY I 8" W SLD 100 MIL [LF]	1730.00	$1.20	$2,076.00
668-2105 PRE FAB TY C 24" W SLD [LF]	1080.00	$10.80	$11,664.00
668-0571 PRE FAB TY C ARROW [EA]	47.00	$160.00	$7,520.00
668-0575 PRE FAB TY C WORD [EA]	16.00	$240.00	$3,840.00
666-2105 PAV MRK TY I Y 4" BRK 100 MIL [LF]	2400.00	$0.45	$1,080.00
666-2111 PAV MRK TY I 4" Y SLD 100 MIL [LF]	17500.00	$0.38	$6,650.00
672-2012 RPM TY IC - W [EA]	307.00	$4.20	$1,289.40
672-2015 RPM TY II AA - Y [EA]	1080.00	$3.20	$3,456.00
668-2103 PRE FAB TY C 12" W SLD [LF]	1070.00	$5.40	$5,778.00
672-2015 RPM TY II AA - B [EA]	22.00	$6.80	$149.60
666-2132 PAV MRK TY I 24" Y SLD 100 MIL [LF]	500.00	$10.80	$5,400.00
668-2113 PRE FAB TY C SYMBOL [EA]	27.00	$160.00	$4,320.00
666-2012 PAV MRK TY I W 4" SLD 100 MIL [LF]	11750.00	$0.38	$4,465.00
668-2107 PRE FAB TY C DBL ARROW [EA]	14.00	$280.00	$3,920.00
RED PAINTED LINES (CURB) [LF]	0.00	$1.20	$0.00
CROSSWALK YIELD LINE ARROWS [EA]	12.00	$28.00	$336.00
INSTALL SMALL ROAD SIGN [EA]	0.00	$490.00	$0.00

Pavement Markings, Inc.
7010 N. FM 493
Donna, TX 78537
Tel (956) 464-0009 Fax (956) 464-5677
Email: villerg37@aol.com

Invoice

Number: 6152

Date: 10/14/2016

Bill To

CITY OF WESLACO
255 S. KANSAS
WESLACO, TX 78596
956-973-3146, FAX, 447-3298

PROJECT

6TH STREET STRIPING
WESTGATE DR TO BUS HWY 83

CONTROL	PROJECT	BID DATE	P. O. #	ENGINEER
		7/22/2016 3PM	71659	

Description	Quantity	Unit Price	Amount
INSTALL FLASHING LED STOP SIGN [EA]	0.00	$620.00	$0.00
REMOVE & REPLACE EXISTING SIGN [EA]	0.00	$320.00	$0.00
REMOVE EXISITING SIGN (BY OTHERS) [EA]	0.00	$100.00	$0.00
REMOVE EXIST. PAVEMENT MARKINGS [LS]	1.00	$800.00	$800.00
ALTERNATE BID			
CURB PAINTING YELLOW [LF]	0.00	$0.80	$0.00
AIRPORT ; PIKE TO BUS 83 -STRIPING			$4,392.80
PROPOSED BIKE LANE STRIPING PHASE II			
666-2036 PAV MRK TY I 8" W SLD 100 MIL [LF]	800.00	$2.40	$1,920.00
668-2105 PRE FAB TY C 24" W SLD [LF]	712.00	$10.80	$7,689.60
668-0571 PRE FAB TY C ARROW [EA]	46.00	$180.00	$8,280.00
668-0575 PRE FAB TY C WORD [EA]	10.00	$240.00	$2,400.00
666-2105 PAV MRK TY I 4" Y BRK 100 MIL [LF]	3300.00	$0.45	$1,485.00
666-2111 PAV MRK TY I 4" Y SLD 100 MIL [LF]	16798.00	$0.38	$6,383.24
672-2012 RPM TY IC [EA]	45.00	$4.20	$189.00
672-2015 RPM TY II AA [EA]	728.00	$3.20	$2,329.60
668-2103 PRE FAB TY C 12" W SLD [LF]	183.00	$5.40	$988.20
672-2015 RPM TY II AA - B [EA]	14.00	$6.80	$95.20

Pavement Markings, Inc.
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Donna, TX 78537
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Email: villerg37@aol.com

Invoice

Number: 6152

Date: 10/14/2016

Bill To

CITY OF WESLACO
255 S. KANSAS
WESLACO, TX 78596
956-973-3146, FAX, 447-3298

PROJECT

6TH STREET STRIPING
WESTGATE DR TO BUS HWY 83

CONTROL	PROJECT	BID DATE	P. O. #	ENGINEER
		7/22/2016 3PM	71659	

Description	Quantity	Unit Price	Amount
666-2132 PAV MRK TY I 24" Y SLD 100 MIL [LF]	421.00	$10.80	$4,546.80
668-2113 PRE FAB TY C SYMBOL [EA]	29.00	$160.00	$4,640.00
666-2012 PAV MRK TY 1 4" W SLD 100 MIL [LF]	13612.00	$0.38	$5,172.56
668-2107 PRE FAB TY C DBL ARROW [EA]	8.00	$280.00	$2,240.00
RED PAINTED LINES (CURB) [LF]	0.00	$1.20	$0.00
INSTALL SMALL ROAD SIGN [EA]	0.00	$490.00	$0.00
REMOVE EXIST. PAVEMENT MARKINGS [LS]	1.00	$3,200.00	$3,200.00

ALL WORK DONE TO TX DOT STANDARDS AS PER PLAN.
ALL THERMOPLASTIC STRIPING

Total $118,696.00

Pavement Markings, Inc.
7010 N. FM 493
Donna, TX 78537
Tel (956) 464-0009 Fax (956) 464-5677
Email: villerg37@aol.com

Invoice

Number: 6154

Date: 10/2/2016

Bill To

CITY OF WESLACO
255 S. KANSAS
WESLACO, TX 78596
956-973-3146, FAX, 447-3298

PROJECT

8 TH STREET AT BRIDGE
EXTRA STRIPING

CONTROL	PROJECT	BID DATE	P. O. #	ENGINEER
		7/22/2016 3PM	71659	

Description	Quantity	Unit Price	Amount
666-2036 PAV MRK TY I 8" W SLD 100 MIL [LF]	290.00	$2.40	$696.00
668-2105 PRE FAB TY C 24" W SLD [LF]	87.00	$10.80	$939.60
668-0571 PRE FAB TY C ARROW [EA]	6.00	$180.00	$1,080.00
668-0575 PRE FAB TY C WORD [EA]	3.00	$240.00	$720.00
666-2105 PAV MRK TY I Y 4" BRK 100 MIL [LF]	60.00	$0.45	$27.00
666-2111 PAV MRK TY I 4" Y SLD 100 MIL [LF]	850.00	$0.38	$323.00
672-2012 RPM TY IC - W [EA]	15.00	$4.20	$63.00
672-2015 RPM TY II AA - Y [EA]	94.00	$3.20	$300.80
668-2103 PRE FAB TY C 12" W SLD [LF]	220.00	$5.40	$1,188.00
672-2015 RPM TY II AA - B [EA]	1.00	$6.80	$6.80
668-2107 PRE FAB TY C DBL ARROW [EA]	4.00	$280.00	$1,120.00
REMOVE EXIST. PAVEMENT MARKINGS [LS]	1.00	$500.00	$500.00

Pavement Markings, Inc.
7010 N. FM 493
Donna, TX 78537
Tel (956) 464-0009 Fax (956) 464-5677
Email: villerg37@aol.com

Invoice

Number: 6154

Date: 10/2/2016

Bill To

CITY OF WESLACO
255 S. KANSAS
WESLACO, TX 78596
956-973-3146, FAX, 447-3298

PROJECT

8 TH STREET AT BRIDGE
EXTRA STRIPING

CONTROL	PROJECT	BID DATE	P. O. #	ENGINEER
		7/22/2016 3PM	71659	

Description	Quantity	Unit	Price	Amount

Total $6,964.20

Pavement Markings, Inc.
7010 N. FM 493
Donna, TX 78537
Tel (956) 464-0009 Fax (956) 464-5677
Email: villerg37@aol.com

Invoice

Number: 6155

Date: 10/2/2016

Bill To

CITY OF WESLACO
255 S. KANSAS
WESLACO, TX 78596
956-973-3146, FAX, 447-3298

PROJECT

6 TH STREET AT WEST OF WESTGATE
EXTRA STRIPING

CONTROL	PROJECT	BID DATE	P. O. #	ENGINEER
		7/22/2016 3PM	71659	

Description	Quantity	Unit Price	Amount
666-2036 PAV MRK TY I 8" W SLD 100 MIL [LF]	460.00	$2.40	$1,104.00
668-2105 PRE FAB TY C 24" W SLD [LF]	24.00	$10.80	$259.20
668-0571 PRE FAB TY C ARROW [EA]	2.00	$180.00	$360.00
668-0575 PRE FAB TY C WORD [EA]	1.00	$240.00	$240.00
666-2111 PAV MRK TY I 4" Y SLD 100 MIL [LF]	2700.00	$0.38	$1,026.00
672-2012 RPM TY IC - W [EA]	35.00	$4.20	$147.00
672-2015 RPM TY II AA - Y [EA]	72.00	$3.20	$230.40
668-2103 PRE FAB TY C 12" W SLD [LF]	72.00	$5.40	$388.80
672-2015 RPM TY II AA - B [EA]	2.00	$6.80	$13.60
668-2107 PRE FAB TY C DBL ARROW [EA]	1.00	$280.00	$280.00

Total $4,049.00

Standardized Agenda Request Form

Date of Meeting: November 1, 2016	**Agenda Item No.** (to be assigned by CSO)**:** 2016-533

From:
Arnold Becho

Subject:
Discussion and consideration to allow the Mayor Joe V Sánchez Public Library to implement a Food for Fines program supporting local food drives and the RGV Food Bank during the Holiday Season and authorize the Mayor to execute any related documents. Possible action. (Staffed by the Library Department.)

Background:

The Food for Fines program will allow library patrons to bring in canned goods and other applicable food items in exchange for forgiveness of library fines. For each food item submitted to the library, a fine on one single item will be forgiven. The program will run through the month of December. If another city department conducts a food drive all food gathered will go to that food drive. If no other food drive is conducted by the city, the library will deliver the food directly to the RGV Food Bank. This program will not apply to cost associated with lost or damaged library items.

Funding Source (budget code, if applicable)**:**

Amount:	Term of Impact:	Identified in Current Budget:

Additional Action Prompted:

If item previously considered, provide date and action by Commission:
NA

If item requires Publication Notice, provide date and periodical of publication; indicate if comments received from letters mailed to property owners:
NA

Advisory Review, if any (name of board/committee, date of action, recommendation)**:**
None at this time

Arnold Becho	Created/Initiated
Arnold Becho	Approved
Mike Perez	Final Approval

City Manager Comments:

Staff Recommendation:
Staff recommends approval.

Attachments, if any:
Memo - Food for fines 2016

Responsibilities upon Approval:

Following approval the library will begin exchanging food donations for fine amnesty.

City of Weslaco

"The City on the Grow"

David Suarez, Mayor
Olga M. Noriega, Mayor Pro-Tem, District 3
Leo Munoz, Commissioner, District 1
Gregory Kerr, Commissioner, District 2
Gerardo "Jerry" Tafolla, Commissioner, District 4
Lupe V. Rivera, Commissioner, District 5
Fidel L. Pena, Commissioner, District 6

Mike Perez, City Manager

October 21, 2016

To: Mike Perez, City Manager; David Suarez, Mayor; Olga M. Noriega, Mayor Pro-Tem; Leo Muñoz, Commissioner; Gregory Kerr, Commissioner; Gerardo Tafolla, Commissioner; Letty Lopez, Commissioner; Fidel L. Pena, Commissioner
CC: Martin J. Mata
Fr: Arnoldo Becho, Library Director
Re: Request to approve the Food for Fines Program

During the months of November and December the library has traditionally taken in canned goods from the public in exchange for fine forgiveness. Library fines are very typically low in value (less than $3) and many individuals donate to the cause even if they do not have a fine present on their account. Thus the activity does not reduce revenues greatly but does have a very positive community result. The last few years we have collected greater than 1,000 total pounds of food.

The Library typically partners with the Parks Department's Food Drive and all donations received will supplement that food drive. In the event that another City Department does not have a food drive, the collected food is donated to the RGV Food Bank. Only non-perishable food items will be accepted, monetary and other donations will not be accepted. Fine forgiveness does not extend to cost associated with lost or damaged materials. Cost associated with lost or damaged materials are classified as fees and the library does not desire to have forgiveness apply to lost or damaged items.

This agenda item requires no additional funding and adds no cost to the library budget. Library staff strongly supports the program and invites all community individuals and community organizations to help promote the program. We would love to collect as much for the needy in our community as possible. Please feel free to contact me with any questions, I will be happy to provide additional information. Thank you for the time.

Arnoldo Becho
Library Director, City of Weslaco
Phone: 956.973.3144
Email: abecho@weslacopl.us

City of Weslaco, Texas
Investment Report
September 30, 2016

Deposits:	**4th Quarter 09/30/16**
Cash on Deposit	
BBVA Compass	$ 16,320,871
Frost	$ 24,714
Tex Pool	4,747,704
Money Market Accounts	
Rio Bank	248,823
Certificates of Deposit	
Lone Star Bank 5/04/2016	-
Greater Bank of South Texas 4/30/2017	240,537
Rio Bank 10/14/2018	240,000
Total	$ 21,582,648

Rates:	**4th Quarter 09/30/16**
Cash - Interest Earning	
BBVA Compass	0.460%
Frost	-
Tex Pool	0.350%
Money Market Accounts	
Rio Bank	0.870%
Certificate of Deposits	
Lone Star Bank 5/04/2016	0.000%
Greater Bank of South Texas 4/30/2017	1.000%
Rio Bank 10/14/2018	1.210%

Total Interest Earned for Period	
Total Interest	$ 20,486.30
Average Return	0.45%
Benchmark - 3 Month T-Bill Rate	0.32%
Weighted Average Maturity (Days)	7.41

Total Interest Earned Year to Date	$ 65,402.41

This report is in full compliance with the investment policy and strategy as established for the City of Weslaco, Texas and the Public Funds Investment Act (Chapter 2256, Government Code).

Prepared by:

Maria C. Barrera, CPA
Finance Director

Reviewed by:

Mike R. Perez
City Manager

THE ECONOMIC DEVELOPMENT CORPORATION OF WESLACO

Whether you are launching, expanding or relocation a business, it makes sense to choose Weslaco – it is the Business Center of the Rio Grande Valley!

November 1, 2016

Quality of Life
Alfresco Music & Art Festival – event was held, with over 4,000 attendees and 65 + vendors participated. The theme was "National Night Out" and the Police Department was a huge player. Downtown merchants, schools and many non-profit are participating and making the community event better.

Retail Prospects
The Board and I attend ICSC Texas Conference & Deal Making to meet with retailers, developers and retail tools. Rio South Texas Economic Council is working very closely with Weslaco. We got 15 leads and are following up on the leads.

Workshops
"Basics of Franchising": WEDC held a seminar, with the Weslaco Chamber and UTRGV Small Business Development office, about the process and were introduce to many of the retail prospects that are franchise opportunities.

Prospects
The City of Weslaco and EDC of Weslaco had a Development Agreement Signing on October 18th with Texas A&M University – Kingsville to grow their program in the Rio Grande Valley. WEDC met with 4 prospects to inquire about their projects and work with them on their proposals.
The UTRGV CIC process is underway – getting contracts signed.

Media & Presentations
The EDC had 18 media promotions, promoting the Texas A&M University- Kingsville event and the "Basic of Franchising" workshops. There were 6 digital billboard ads, including: Mid Valley Truck & Trailer, Inc., El Real Michoacana, Mid Valley Airport, Alfresco and Basics of Franchising seminar.

Summary of Leads List
We have a summary of leads list that shows the prospects interested in expanding or coming to Weslaco. There are 38 leads, and that translates into 1,740 jobs and $143 million dollars' worth of investment if they all land in Weslaco. To date the WEDC has a total of 4 projects of WINS that create 79 jobs and $3,156,326.

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