

AGENDA

AGENDA OF THE REGULAR SESSION OF THE MAYOR AND COUNCIL OF THE CITY OF BISBEE, COUNTY OF COCHISE, AND STATE OF ARIZONA, TO BE HELD ON TUESDAY, FEBRUARY 2, 2016, AT 7:00 PM IN THE BISBEE MUNICIPAL BUILDING, 118 ARIZONA STREET, BISBEE, ARIZONA.

THE MEETING CALLED TO ORDER BY _____ AT _____.

ROLL CALL

COUNCIL

Councilmember Eugene Conners, Ward I
Councilmember Joan Hansen, Ward II
Councilmember Shirley Doughty, Ward III Excused
Mayor Ronald Oertle
Councilmember Anna Cline, Ward III, Mayor Pro Tempore
Councilmember Douglas Dunn, Ward II
Councilmember Serena Sullivan, Ward I

STAFF

Jestin Johnson, City Manager
Ashlee Coronado, City Clerk
Sharon Buono, Finance Director
Albert Echave, Police Chief
Marc Burneleit, Fire Chief
Andy Haratyk, Interim Public Works Director

CITY ATTORNEY

Britt Hanson

INVOCATION: A Moment of Silence

PLEDGE OF ALLEGIANCE

MAYOR'S PROCLAMATIONS AND ANNOUNCEMENTS:

CALL TO THE PUBLIC

"During the proper time on the agenda, taxpayers or residents of the city, or their authorized representatives, may address the council on any matter concerning the City's business or any matter over which the council has control (oral presentations shall not be repetitious and shall be confined to 3 minutes maximum duration.)" Ordinance O-91-29.

THE FOLLOWING ITEMS WILL BE DISCUSSED, CONSIDERED AND/OR DECIDED UPON AT THIS MEETING:

GENERAL BUSINESS:

1. ACCOUNTS PAYABLE: Subject to availability of funds.
2. Approval of the Consent Agenda

- A. Approval of the Minutes of the Work Session of Mayor and Council held on November 10, 2015 at 5:30PM.
Ashlee Coronado, City Clerk
- B. Approval of the Minutes of the Regular Session of Mayor and Council held on January 5, 2016 at 7:00PM.
Ashlee Coronado, City Clerk
- C. Approval of the Appointment of Peter Von Gundlach to the Airport Advisory Committee with a Waiver of Number of Commissions Served.
Ashlee Coronado, City Clerk

OLD BUSINESS

NEW BUSINESS

- 3. Presentation on the Bisbee Unified School District by Kim Kennedy.
Joan Hansen, Councilmember WARD II
- 4. Discussion and Possible Approval of Reducing the Number of Committee Members on the Airport Advisory Committee from Seven to Five.
Joan Hansen, Councilmember WARD II
- 5. Discussion and Possible Approval of a Contract with Western States Fire Equipment for the Purchase of a Fire Truck.
Marc Burneleit, Fire Chief
- 6. Discussion and Possible Approval of the Job Description and Position for the Administrative Services Director.
Jestin Johnson, City Manager
- 7. Discussion and Possible Approval of the Job Description and Position for the Library Manager.
Jestin Johnson, City Manager
- 8. Discussion and Possible Approval of the Grant Agreement between the City of Bisbee and the Arizona Department of Homeland Security for Operation StoneGarden Grant, Award # 150415-01, in the Amount of \$115,100, which includes \$100,100 for Overtime and Employee Related Expenses and \$15,000 for Mileage.
Albert Echave, Police Chief
- 9. City Manager's Report:
 - Other current events

COUNCIL COMMENTS OR FUTURE AGENDA ITEM SUGGESTIONS: (Council members may suggest topics for future meeting agendas, but Council will not here discuss, deliberate or take any action on these topics.):

- Councilmember Hansen would like to give an update on Public Works activities and on Aid in Dying.

ADJOURNMENT

Individuals with hearing disabilities can contact the City Clerk's Office (520) 432-6012 to request an Assisted Listening Device, at least 24 hours before the meeting.

Anyone needing special accommodation to attend this meeting should contact Ashlee Coronado at (520) 432-6012 at least twenty-four hours before the meeting.

Public documents referred to herein may be viewed during regular business hours at the City Clerk's Office at 118 Arizona St., Bisbee.

Pursuant to A.R.S. § 38-431.03(A) (3), the Council may vote to enter executive session at any point during this meeting for discussion or consultation for legal advice with its attorney(s), who may appear telephonically.

Fund	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount
116					
GENERAL FUND					
10-2020203 DENTAL INSUR PAYABLE					
GENERAL FUND	DELTA DENTAL	16-0128	ER/EE	01/28/2016	2,591.16
GENERAL FUND	DELTA DENTAL	16-0128	DENTAL INS-COBRA	01/28/2016	53.40
Total 10-2020203 DENTAL INSUR PAYABLE:					2,644.56
10-2020801 PUBLIC SAFETY RETIRE PAYABLE					
GENERAL FUND	PUBLIC SAFETY PERSONNEL	PR0116161	Retirement Police Pay Period: 1/16/2016	01/20/2016	20,211.14
GENERAL FUND	PUBLIC SAFETY PERSONNEL	PR0116161	Retirement Police Pay Period: 1/16/2016	01/20/2016	2,500.90
GENERAL FUND	PUBLIC SAFETY PERSONNEL	PR0116181	Retirement Fire Pay Period: 1/16/2016	01/20/2016	4,165.64
GENERAL FUND	PUBLIC SAFETY PERSONNEL	PR0116161	Retirement Fire Pay Period: 1/16/2016	01/20/2016	31,344.28
Total 10-2020801 PUBLIC SAFETY RETIRE PAYABLE:					58,221.96
10-2020802 DEFERRED COMPENSATION PAYABLE					
GENERAL FUND	NATIONWIDE RETIREMENT SO	PR0116161	Deferred Comp Core Pay Period: 1/16/2016	01/20/2016	640.00
GENERAL FUND	NATIONWIDE RETIREMENT SO	PR0116161	Deferred Comp Buy Up Pay Period: 1/16/2016	01/20/2016	964.50
Total 10-2020802 DEFERRED COMPENSATION PAYABLE:					1,604.50
10-2020804 P.S.R.P.S. - ALT CONTR PAYABLE					
GENERAL FUND	PUBLIC SAFETY PERSONNEL	PR0116161	PSPRS-Alternate Contribution Pay Period: 1/16/2016	01/20/2016	84.26
Total 10-2020804 P.S.R.P.S. - ALT CONTR PAYABLE:					84.26
10-2020818 UNION DUES PAYABLE					
GENERAL FUND	AZ COPS	PR0116161	Union Dues Pol/Fire Pay Period: 1/16/2016	01/20/2016	180.00
GENERAL FUND	BISBEE FIREFIGHTERS LOCAL	PR0116161	Union Dues-Fire Pay Period: 1/16/2016	01/20/2016	382.50
Total 10-2020818 UNION DUES PAYABLE:					562.50
10-2021001 HEALTH INSURANCE PAYABLE					
GENERAL FUND	UNITEDHEALTHCARE INSURAN	16-0128	HEALTH INSURANCE PREMIUM	01/28/2016	30,727.57
Total 10-2021001 HEALTH INSURANCE PAYABLE:					30,727.57
10-2021008 HEALTH INSURANCE-COBRA					
GENERAL FUND	UNITEDHEALTHCARE INSURAN	16-0128	COBRA	01/28/2016	638.26
Total 10-2021008 HEALTH INSURANCE-COBRA:					638.26
10-2024000 PAYROLL GARNISHMENTS PAYABLE					
GENERAL FUND	SUPPORT PAYMENT CLEARIN	PR0116161	Support Clearing-Child Support Pay Period: 1/16/2016	01/20/2016	1,378.94
Total 10-2024000 PAYROLL GARNISHMENTS PAYABLE:					1,378.94
10-34-40066 AMBULANCE FEES					
GENERAL FUND	PALOMINAS FIRE DISTRICT	16-0126	REVENUE COLLECTIONS/AMBULANCE/NOV	01/28/2016	24,786.63
Total 10-34-40066 AMBULANCE FEES:					24,786.63
FINANCE DEPARTMENT					
10-52-41500 OFFICE SUPPLIES					
GENERAL FUND	OFFICE DEPOT	815581343001	TAPE	01/06/2016	16.01

Fund	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount
Total 10-52-41500 OFFICE SUPPLIES:					16.01
COMMUNITY DEVELOPMENT					
10-54-22000 WATER - SHELTER					
GENERAL FUND	AZ WATER COMPANY	03117020951-	WATER/TOUREAVILLE POUND	01/25/2016	71.22
Total 10-54-22000 WATER - SHELTER:					71.22
10-54-24000 TELEPHONE & FAX - SHELTER					
GENERAL FUND	CENTURY LINK	420B-01-16	PHONE SERVICES-ANIMAL SHELTER	01/25/2016	32.28
Total 10-54-24000 TELEPHONE & FAX - SHELTER:					32.28
10-54-24001 INTERNET FEES - SHELTER					
GENERAL FUND	CABLE ONE	16-0126/AS	EMAIL SVC/AS	01/25/2016	69.45
Total 10-54-24001 INTERNET FEES - SHELTER:					69.45
10-54-55000 EQUIPMENT REPAIR & MAINT					
GENERAL FUND	FRANKLIN REFRIGERATION SR	5134	REPAIR START SWITCH ON DRYER	01/14/2016	105.10
Total 10-54-55000 EQUIPMENT REPAIR & MAINT:					105.10
ADMINISTRATION & GENERAL GOV'T					
10-55-21000 ELECTRIC					
GENERAL FUND	AZ PUBLIC SERVICE (2 of 3)	666380285-01-	ELEC-118 AZ STREET	01/25/2016	1,431.39
Total 10-55-21000 ELECTRIC:					1,431.39
10-55-22000 WATER					
GENERAL FUND	AZ WATER COMPANY	03112054101-	WATER/118 ARIZONA ST	01/25/2016	258.74
Total 10-55-22000 WATER:					258.74
10-55-23000 GAS					
GENERAL FUND	SOUTHWEST GAS CORPORATI	472012930802	GAS-118 AZ ST	01/25/2016	36.49
Total 10-55-23000 GAS:					36.49
10-55-31000 PROFESSIONAL FEES					
GENERAL FUND	B.A.S.I.C.	06-55537	RENEWAL FOR PREMIUM PLAN	12/02/2015	250.00
GENERAL FUND	B.A.S.I.C.	06-55819	ANNUAL RENEWAL FEE	12/05/2015	250.00
Total 10-55-31000 PROFESSIONAL FEES:					500.00
10-55-46000 OPERATIONAL EXPENSES					
GENERAL FUND	LOGO ZOO, LLC	15-955	LAPEL PINS	01/08/2016	675.00
Total 10-55-46000 OPERATIONAL EXPENSES:					675.00
WATER SYSTEMS					
10-58-21000 ELECTRIC					
GENERAL FUND	AZ PUBLIC SERVICE (2 of 3)	597510284-01-	ELEC-TOMBSTONE CANYON PUMP	01/21/2016	324.84
GENERAL FUND	AZ PUBLIC SERVICE (2 of 3)	703833281-01-	ELEC-DOUGLAS RD. PUMP	01/25/2016	23.39

Fund	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount
Total 10-58-21000 ELECTRIC:					348.23
INFORMATION SYSTEMS					
10-59-24000 TELEPHONE & FAX					
GENERAL FUND	CENTURY LINK	217B-01-16	PHONE SERVICES-CITY HALL	01/25/2016	346.91
GENERAL FUND	CENTURY LINK	408B-01-16	PHONE SERVICES-FAX	01/25/2016	33.00
GENERAL FUND	CENTURY LINK	422B-01-16	PHONE SERVICES-CITY HALL	01/25/2016	165.00
Total 10-59-24000 TELEPHONE & FAX:					544.91
10-59-24001 T1 LINE FOR INTERNET ACCESS					
GENERAL FUND	CABLE ONE	16-0126/CH	INTERNET SRVC/CH	01/25/2016	212.50
Total 10-59-24001 T1 LINE FOR INTERNET ACCESS:					212.50
10-59-31000 PROFESSIONAL FEES					
GENERAL FUND	TRACHTMAN, SEAN	16-0120	IT SUPPORT	01/20/2016	1,675.00
GENERAL FUND	TRACHTMAN, SEAN	16-0127	IT SUPPORT	01/27/2016	975.00
Total 10-59-31000 PROFESSIONAL FEES:					2,650.00
10-59-34000 CONTRACT SERVICES					
GENERAL FUND	EXECUTECH	28027	OFFICE 365 PLAN 1	01/01/2016	371.25
Total 10-59-34000 CONTRACT SERVICES:					371.25
POLICE DEPARTMENT					
10-62-12300 UNIFORMS & CLOTHING					
GENERAL FUND	ASR - PIMA UNIFORMS	IVC9080204	UNIFORMS	08/28/2015	125.19
Total 10-62-12300 UNIFORMS & CLOTHING:					125.19
10-62-13400 EDUCATION & TRAINING					
GENERAL FUND	BISBEE POLICE DEPARTMENT	16-0111	PETTY CASH-BISBEE 101	01/11/2016	59.10
GENERAL FUND	BISBEE POLICE DEPARTMENT	16-0111	PETTY CASH/ SNACKS	01/11/2016	36.10
Total 10-62-13400 EDUCATION & TRAINING:					95.20
10-62-21000 ELECTRIC					
GENERAL FUND	AZ PUBLIC SERVICE (2 of 3)	150262282-01-	ELEC- 129 TANK HILL D.	01/21/2016	36.99
GENERAL FUND	AZ PUBLIC SERVICE (2 of 3)	835101287-01-	ELEC-POLICE	01/25/2016	861.00
Total 10-62-21000 ELECTRIC:					897.99
10-62-22000 WATER					
GENERAL FUND	AZ WATER COMPANY	03109045754-	WATER/35 HWY 92 T-CIR	01/21/2016	58.80
Total 10-62-22000 WATER:					58.80
10-62-24000 TELEPHONE & FAX					
GENERAL FUND	CENTURY LINK	402B-01-16	PHONE SERVICES-POLICE	01/25/2016	263.65
Total 10-62-24000 TELEPHONE & FAX:					263.65
10-62-24001 INTERNET ACCESS FEES					
GENERAL FUND	CABLE ONE	16-0126/BPD	INTERNET SVC/BPD	01/25/2016	110.50

Fund	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount
Total 10-62-24001 INTERNET ACCESS FEES :					110.50
10-62-34000 CONTRACT SERVICES					
GENERAL FUND	OLANDER PEST CONTROL SER	CP-121815	PEST CONTROL SERVICES/BPD	12/28/2015	40.00
GENERAL FUND	RICOH USA INC	96013701	COPIER RENT & MAINT/BPD	12/18/2015	188.13
Total 10-62-34000 CONTRACT SERVICES:					228.13
10-62-34100 DOC WORKERS					
GENERAL FUND	AZ STATE PRISON CMLX-DOU	15-1231BPD	DOC LABOR CREW/BPD	12/31/2015	32.00
Total 10-62-34100 DOC WORKERS:					32.00
10-62-36000 MAINTENANCE & SUPPORT AGREEMNTS					
GENERAL FUND	RICOH USA, INC	5039910759	COPIER MAINT AGRMNT/BPD	01/08/2016	69.19
Total 10-62-36000 MAINTENANCE & SUPPORT AGREEMNTS:					69.19
10-62-41500 OFFICE SUPPLIES					
GENERAL FUND	WIST OFFICE PRODUCTS	1417209	OFFICE SUPPLIES	12/30/2015	79.22
GENERAL FUND	WIST OFFICE PRODUCTS	1419001	OFFICE SUPPLIES	01/06/2016	40.83
Total 10-62-41500 OFFICE SUPPLIES:					120.05
10-62-42030 BOOKS & REFERENCE MATERIALS					
GENERAL FUND	MATTHEW BENDER & CO., INC	79559182	TRAFFIC BOOKS	12/29/2015	36.74
Total 10-62-42030 BOOKS & REFERENCE MATERIALS:					36.74
10-62-46000 OPERATIONAL EXPENSES					
GENERAL FUND	BISBEE POLICE DEPARTMENT	16-0111	CONTROLLED FUNDS/B15-5027	01/11/2016	20.00
Total 10-62-46000 OPERATIONAL EXPENSES:					20.00
10-62-46624 MOVING, TOWING, STORAGE EXP					
GENERAL FUND	BARNETT'S TOWING & OXYGE	15074	TOWING SVC/BPD	12/05/2015	118.75
GENERAL FUND	BARNETT'S TOWING & OXYGE	15078	TOWING SVC/BPD	12/09/2015	95.00
GENERAL FUND	BARNETT'S TOWING & OXYGE	15080	TOWING SVC/BPD	12/15/2015	95.00
GENERAL FUND	BARNETT'S TOWING & OXYGE	15082	TOWING SVC/BPD	12/17/2015	118.75
GENERAL FUND	BARNETT'S TOWING & OXYGE	15085	TOWING SVC/BPD	12/23/2015	95.00
Total 10-62-46624 MOVING, TOWING, STORAGE EXP:					522.50
10-62-50100 BLDG REPAIR & MAINT					
GENERAL FUND	ACE HARDWARE	16823	SUPPLIES	01/04/2016	2.18
Total 10-62-50100 BLDG REPAIR & MAINT:					2.18
10-62-55000 EQUIPMENT REPAIR & MAINT					
GENERAL FUND	DURHAM COMMUNICATIONS, I	46300	RADIO REPAIR	01/11/2016	92.14
Total 10-62-55000 EQUIPMENT REPAIR & MAINT:					92.14
10-62-61000 VEHICLE PARTS & LABOR					
GENERAL FUND	WILLCOX AUTO PARTS INC.	96809	AUTO PARTS	12/03/2015	5.26
GENERAL FUND	WILLCOX AUTO PARTS INC.	97140	AUTO PARTS	12/08/2015	88.87

Fund	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount
GENERAL FUND	WILLCOX AUTO PARTS INC.	97608	AUTO PARTS	12/14/2015	2.99
GENERAL FUND	WILLCOX AUTO PARTS INC.	98572	AUTO PARTS	12/28/2015	17.89
GENERAL FUND	WILLCOX AUTO PARTS INC.	99228	AUTO PARTS	01/07/2016	14.11
Total 10-62-61000 VEHICLE PARTS & LABOR:					118.60
FIRE DEPARTMENT					
10-64-11400 A.P.S.P.R.S.					
GENERAL FUND	PUBLIC SAFETY PERSONNEL	16-0116	Fire Ins Premium Tax Cr	01/16/2016	488.79-
Total 10-64-11400 A.P.S.P.R.S.:					488.79-
10-64-13400 EDUCATION & TRAINING					
GENERAL FUND	SEDONA FIRE DISTRICT	201601061596	FIRE INSPECTOR II CERT COURSE	01/06/2016	320.00
Total 10-64-13400 EDUCATION & TRAINING:					320.00
10-64-21000 ELECTRIC					
GENERAL FUND	AZ PUBLIC SERVICE (2 of 3)	723800285-01-	ELEC-FIRE STATION	01/21/2016	192.07
Total 10-64-21000 ELECTRIC:					192.07
10-64-23000 GAS					
GENERAL FUND	SOUTHWEST GAS CORPORATI	472000555002	GAS-645 TOMBSTONE CYN STA	01/21/2016	305.40
Total 10-64-23000 GAS:					305.40
10-64-24000 TELEPHONE & FAX					
GENERAL FUND	CENTURY LINK	278B-01-16	PHONE SERVICES-FIRE DEPT	01/25/2016	42.99
GENERAL FUND	CENTURY LINK	398B-01-16	PHONE SERVICES-FIRE DEPT	01/25/2016	71.99
GENERAL FUND	CENTURY LINK	412B-01-16	PHONE SERVICES-FIRE DEPT	01/25/2016	33.00
Total 10-64-24000 TELEPHONE & FAX:					147.98
10-64-46000 OPERATIONAL EXPENSES					
GENERAL FUND	ACE HARDWARE	16891	LATCHING TOTE	01/12/2016	34.43
GENERAL FUND	ACE HARDWARE	16928	UTILITY BOX	01/18/2016	10.95
Total 10-64-46000 OPERATIONAL EXPENSES:					45.38
10-64-46641 MEDICAL SUPPLIES					
GENERAL FUND	BOUND TREE MEDICAL, LLC	82016048	MEDICAL SUPPLIES/BFD	01/06/2016	1,091.31
GENERAL FUND	BOUND TREE MEDICAL, LLC	82018646	MEDICAL SUPPLIES/BFD	01/09/2016	96.43
Total 10-64-46641 MEDICAL SUPPLIES:					1,187.74
10-64-55000 EQUIPMENT REPAIR & MAINT					
GENERAL FUND	FDC RESCUE PRODUCTS	8973	REPAIR TO SCBA	01/13/2016	44.29
Total 10-64-55000 EQUIPMENT REPAIR & MAINT:					44.29
10-64-61000 VEHICLE PARTS & LABOR					
GENERAL FUND	CMS AUTO GLASS	C0003777	WINDSHIELD	01/15/2016	252.78
GENERAL FUND	CMS AUTO GLASS	WO C0003922	WINDSHIELD	01/15/2016	241.09
GENERAL FUND	W R RYAN - FIRESTONE	T04265	TIE RODS REPLACED	12/04/2015	486.00
GENERAL FUND	W R RYAN - FIRESTONE	T04265	HEAVY DUTY COIL SPRINGS	12/06/2015	269.95
GENERAL FUND	WILLCOX AUTO PARTS INC.	96522	AUTO PARTS	12/01/2015	8.10

Fund	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount
GENERAL FUND	WILLCOX AUTO PARTS INC.	96745	AUTO PARTS	12/03/2015	117.09
GENERAL FUND	WILLCOX AUTO PARTS INC.	96854	AUTO PARTS	12/04/2015	326.15
GENERAL FUND	WILLCOX AUTO PARTS INC.	96864	AUTO PARTS	12/04/2015	9.62
GENERAL FUND	WILLCOX AUTO PARTS INC.	96878	AUTO PARTS	12/04/2015	181.85
GENERAL FUND	WILLCOX AUTO PARTS INC.	97920	AUTO PARTS	12/17/2015	1.91
GENERAL FUND	WILLCOX AUTO PARTS INC.	97933	AUTO PARTS	12/17/2015	51.03
GENERAL FUND	WILLCOX AUTO PARTS INC.	97934	AUTO PARTS	12/17/2015	40.53
GENERAL FUND	WILLCOX AUTO PARTS INC.	97941	AUTO PARTS	12/17/2015	31.75
GENERAL FUND	WILLCOX AUTO PARTS INC.	98059	AUTO PARTS	12/18/2015	7.99
GENERAL FUND	WILLCOX AUTO PARTS INC.	98437	AUTO PARTS	12/24/2015	380.17
GENERAL FUND	WILLCOX AUTO PARTS INC.	98640	AUTO PARTS	12/29/2015	12.25
GENERAL FUND	WILLCOX AUTO PARTS INC.	98716	AUTO PARTS	12/10/2015	9.01
GENERAL FUND	WILLCOX AUTO PARTS INC.	99328	HUB ASSY-FRONT WHEEL	01/08/2016	453.86
Total 10-64-61000 VEHICLE PARTS & LABOR:					2,881.13
CEMETERY					
10-70-46000 OPERATIONAL EXPENSES					
GENERAL FUND	DISTINGUISHED PRODUCTS	150217	US FLAG	01/20/2016	155.52
GENERAL FUND	DISTINGUISHED PRODUCTS	150218	US FLAG	01/20/2016	205.00
Total 10-70-46000 OPERATIONAL EXPENSES:					360.52
BUILDING & MAINTENANCE					
10-74-34000 CONTRACT SERVICES					
GENERAL FUND	CULLIGAN OF TUCSON	112X28212504	DRINKING WATER/BM	12/31/2015	27.87
Total 10-74-34000 CONTRACT SERVICES:					27.87
10-74-34100 DOC WORKERS					
GENERAL FUND	AZ STATE PRISON CMLPX-DOU	16-0112BM	DOC LABOR CREW/BM	01/12/2016	54.00
Total 10-74-34100 DOC WORKERS:					54.00
PUBLIC WORKS ADMINISTRATION					
10-75-21000 ELECTRIC					
GENERAL FUND	AZ PUBLIC SERVICE (2 of 3)	092593283-01-	ELEC - 404 BISBEE RD	01/25/2016	39.01
Total 10-75-21000 ELECTRIC:					39.01
10-75-22000 WATER					
GENERAL FUND	AZ WATER COMPANY	03112030003-	WATER/404 BISBEE RD	01/25/2016	20.39
Total 10-75-22000 WATER:					20.39
10-75-23000 GAS					
GENERAL FUND	SOUTHWEST GAS CORPORATI	472011113302	GAS-404 BISBEE RD	01/25/2016	71.54
Total 10-75-23000 GAS:					71.54
10-75-24000 TELEPHONE & FAX					
GENERAL FUND	CENTURY LINK	510B-01-16	PHONE SERVICES-PW ADMIN	01/25/2016	33.00
Total 10-75-24000 TELEPHONE & FAX:					33.00
GARAGE					

Fund	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount
10-77-24000 TELEPHONE & FAX					
GENERAL FUND	CENTURY LINK	418B-01-16	PHONE SERVICES-PW GARAGE	01/25/2016	134.44
Total 10-77-24000 TELEPHONE & FAX:					134.44
10-77-34100 DOC WORKERS					
GENERAL FUND	AZ STATE PRISON CMLPX-DOU	16-0112GAR	DOC LABOR CREW/GAR	01/12/2016	28.00
Total 10-77-34100 DOC WORKERS:					28.00
10-77-61000 VEHICLE PARTS & LABOR					
GENERAL FUND	WILLCOX AUTO PARTS INC.	99064	O-RING	01/05/2016	24.06
Total 10-77-61000 VEHICLE PARTS & LABOR:					24.06
BUILDING INSPECTOR					
10-79-31000 PROFESSIONAL FEES					
GENERAL FUND	COCHISE COUNTY COMMUNIT	16-0107	INSPECTIONS	01/07/2016	157.05
Total 10-79-31000 PROFESSIONAL FEES :					157.05
PARKS					
10-80-21000 ELECTRIC					
GENERAL FUND	AZ PUBLIC SERVICE (2 of 3)	045362284-01-	ELEC-GOAR PARK	01/21/2016	34.13
GENERAL FUND	AZ PUBLIC SERVICE (2 of 3)	138222280-01-	ELEC- E. VISTA PARK	01/25/2016	26.34
GENERAL FUND	AZ PUBLIC SERVICE (2 of 3)	230930288-01-	ELEC-BREWERY GULCH C PARK	01/25/2016	23.39
GENERAL FUND	AZ PUBLIC SERVICE (2 of 3)	512522288-01-	ELEC-MAIN ST PARK	01/21/2016	127.73
GENERAL FUND	AZ PUBLIC SERVICE (2 of 3)	865470286-00	ELEC-E VISTA COURT	01/25/2016	27.82
Total 10-80-21000 ELECTRIC:					239.41
10-80-22000 WATER					
GENERAL FUND	AZ WATER COMPANY	03106053651-	WATER/GRASSY PARK	01/21/2016	274.51
GENERAL FUND	AZ WATER COMPANY	03106058001-	WATER/CITY PARK BREWERY	01/21/2016	52.55
GENERAL FUND	AZ WATER COMPANY	03109012304-	WATER/GOAR PARK	01/21/2016	54.37
GENERAL FUND	AZ WATER COMPANY	03109045722-	WATER/TRAFFIC CIRCLE	01/21/2016	47.70
GENERAL FUND	AZ WATER COMPANY	03109069151-	WATER/SAGINAW PARK	01/21/2016	19.20
GENERAL FUND	AZ WATER COMPANY	03112037583-	WATER/MULE MTN GDN PARK	01/25/2016	19.20
GENERAL FUND	AZ WATER COMPANY	03112038121-	WATER/VISTA PARK	01/25/2016	47.70
GENERAL FUND	AZ WATER COMPANY	03112039072-	WATER/W VISTA & HOATSON PARK	01/25/2016	199.45
GENERAL FUND	AZ WATER COMPANY	03112040621-	WATER/LOWER E VISTA & TENER BATHROOMS	01/25/2016	19.20
GENERAL FUND	AZ WATER COMPANY	03112040651-	WATER/LOWER VISTA PARK	01/25/2016	59.80
GENERAL FUND	AZ WATER COMPANY	03112047073-	WATER/AZ ST & COLE AVE IRRIGATION	01/21/2016	19.20
GENERAL FUND	AZ WATER COMPANY	03112085801-	WATER/PAUL PARK WARREN PARK	01/25/2016	47.70
GENERAL FUND	AZ WATER COMPANY	03117017901-	WATER/TIN TOWN PARK	01/25/2016	19.20
GENERAL FUND	AZ WATER COMPANY	03117047651-	WATER/GALENA PARK	01/25/2016	19.20
Total 10-80-22000 WATER:					898.98
10-80-34000 CONTRACT SERVICES					
GENERAL FUND	LAL ENTERPRISES, INC	23224	PORTA POTS	12/31/2015	109.50
GENERAL FUND	PRUDENTIAL OVERALL SUPPL	210790378	UNIFORMS/PARKS	01/14/2016	27.03
Total 10-80-34000 CONTRACT SERVICES:					136.53
10-80-34100 DOC WORKERS					
GENERAL FUND	AZ STATE PRISON CMLPX-DOU	16-0112PKS1	DOC LABOR CREW/PKS1	01/12/2016	148.75

Fund	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount
Total 10-80-34100 DOC WORKERS:					148.75
10-80-46000 OPERATIONAL EXPENSES					
GENERAL FUND	B&D LUMBER & HARDWARE	141737	BULBS	01/06/2016	36.25
GENERAL FUND	B&D LUMBER & HARDWARE	141739	LOPPER, SAW, BLADE	01/06/2016	25.10
GENERAL FUND	DEKRA-LITE	INV038237	COUMN DROP	11/20/2015	1,041.38
Total 10-80-46000 OPERATIONAL EXPENSES:					1,102.73
10-80-46802 LANDSCAPING MATERIALS					
GENERAL FUND	B&D LUMBER & HARDWARE	141683	POP-UP HEAD	01/04/2016	2.22
Total 10-80-46802 LANDSCAPING MATERIALS:					2.22
SWIMMING POOL					
10-81-21000 ELECTRIC					
GENERAL FUND	AZ PUBLIC SERVICE (2 of 3)	781320283-01-	ELEC-QUALITY HILL POOL	01/21/2016	27.20
Total 10-81-21000 ELECTRIC:					27.20
10-81-22000 WATER					
GENERAL FUND	AZ WATER COMPANY	03106006471-	WATER/POOL	01/21/2016	152.26
Total 10-81-22000 WATER:					152.26
10-81-24000 TELEPHONE & FAX					
GENERAL FUND	CENTURY LINK	428B-01-16	PHONE SERVICES-SWIMMING POOL	01/25/2016	37.32
Total 10-81-24000 TELEPHONE & FAX:					37.32
LIBRARY					
10-83-21000 ELECTRIC					
GENERAL FUND	AZ PUBLIC SERVICE (2 of 3)	882030287-01-	ELEC-6 MAIN ST LIBRARY	01/21/2016	593.29
Total 10-83-21000 ELECTRIC:					593.29
10-83-22000 WATER					
GENERAL FUND	AZ WATER COMPANY	03108016751-	WATER/LIBRARY	01/21/2016	62.83
Total 10-83-22000 WATER:					62.83
10-83-24000 TELEPHONE & FAX					
GENERAL FUND	CENTURY LINK	414B-01-16	PHONE SERVICES-LIBRARY	01/25/2016	196.73
GENERAL FUND	CENTURY LINK	855M-01-16	T1 CIRCUIT JAN/LIBRARY	01/01/2016	430.40
Total 10-83-24000 TELEPHONE & FAX:					627.13
10-83-34100 DOC WORKERS					
GENERAL FUND	AZ STATE PRISON CMLPX-DOU	16-0112LIB	DOC LABOR CREW/LIB	01/12/2016	24.00
Total 10-83-34100 DOC WORKERS:					24.00
10-83-46834 PERIODICALS					
GENERAL FUND	ARIZONA DAILY STAR	16-0121	SUBSCRIPTION/LIB	01/21/2016	302.26

Fund	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount
Total 10-83-46834 PERIODICALS:					302.26
10-83-50100 BLDG REPAIR & MAINT					
GENERAL FUND	B&D LUMBER & HARDWARE	141831	FAUCET	12/30/2015	113.91
GENERAL FUND	B&D LUMBER & HARDWARE	141726	CAULK	01/05/2016	12.07
Total 10-83-50100 BLDG REPAIR & MAINT:					125.98
SENIOR CITIZENS CENTER					
10-85-24000 TELEPHONE & FAX					
GENERAL FUND	CENTURY LINK	416B-01-16	PHONE SERVICES-SENIOR CENTER	01/25/2016	66.00
Total 10-85-24000 TELEPHONE & FAX:					66.00
10-85-24001 INTERNET ACCESS FEES					
GENERAL FUND	CABLE ONE	16-0126/SC	INTERNET SRVC/SC	01/25/2016	59.50
Total 10-85-24001 INTERNET ACCESS FEES:					59.50
10-85-34100 DOC WORKERS					
GENERAL FUND	AZ STATE PRISON CMLPX-DOU	16-0112SC	DOC LABOR CREW/SC	01/12/2016	88.00
Total 10-85-34100 DOC WORKERS:					88.00
TRANSIENT ROOM TAX					
FUND EXPENDITURES					
20-40-24000 TELEPHONE & FAX					
TRANSIENT ROOM TAX	CENTURY LINK	500B-01-16	PHONE SERVICES-VISITOR CTR	01/25/2016	116.76
Total 20-40-24000 TELEPHONE & FAX:					116.76
STREETS					
FUND EXPENDITURES					
21-40-21000 ELECTRIC					
STREETS	AZ PUBLIC SERVICE (2 of 3)	048174287-01-	ELEC-80 BREWERY GULCH SHOP3	01/21/2016	32.64
STREETS	AZ PUBLIC SERVICE (2 of 3)	482984282-01-	ELEC-80 BREWERY GULCH SHOP4	01/21/2016	150.14
STREETS	AZ PUBLIC SERVICE (2 of 3)	499174286-01-	ELEC-80 BREWERY GULCH SHOP2	01/21/2016	89.30
STREETS	AZ PUBLIC SERVICE (2 of 3)	843174288-01-	ELEC-80 BREWERY GULCH SHOP 1	01/21/2016	153.74
STREETS	AZ PUBLIC SERVICE (2 of 3)	922298284-01-	ELEC-LOWELL TR CIRCLE	01/25/2016	23.39
Total 21-40-21000 ELECTRIC:					449.21
21-40-46000 OPERATIONAL EXPENSES					
STREETS	ACE HARDWARE	16814	CHUCK	01/04/2016	21.91
STREETS	ACE HARDWARE	16828	TREATED GDF	01/05/2016	876.71
STREETS	ACE HARDWARE	16829	TREATED GDF	01/05/2016	876.71-
STREETS	ACE HARDWARE	16831	SAW BLADE	01/05/2016	20.81
STREETS	ACE HARDWARE	16839	SHOVEL HANDLE	01/05/2016	16.43
STREETS	ACE HARDWARE	16864	GLV DUCK THNSULAT	01/08/2016	21.91
STREETS	ACE HARDWARE	16869	ICE MELT	01/09/2016	640.73
STREETS	ACE HARDWARE	16870	ICE MELT	01/09/2016	1,656.05
STREETS	B&D LUMBER & HARDWARE	141838	STUCCO KOTE	12/30/2015	59.03
STREETS	B&D LUMBER & HARDWARE	141843	ROCKITE CEMENT	12/30/2015	20.28
STREETS	B&D LUMBER & HARDWARE	141698	PAIL, STUCCO PREMIX	01/04/2016	93.12
STREETS	B&D LUMBER & HARDWARE	141720	LUMBER	01/05/2016	81.53
STREETS	B&D LUMBER & HARDWARE	141727	SPADE	01/05/2016	21.25

Fund	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount
STREETS	B&D LUMBER & HARDWARE	141728	SHOVEL HANDLE	01/05/2016	14.49
STREETS	B&D LUMBER & HARDWARE	141735	HAMMER, SPADE, SHOVEL	01/06/2016	62.31
STREETS	B&D LUMBER & HARDWARE	141750	ROPE	01/06/2016	1.04
STREETS	B&D LUMBER & HARDWARE	141772	HILLMAN SPEC ITEM	01/07/2016	3.48
STREETS	B&D LUMBER & HARDWARE	141800	SALT	01/11/2016	32.53
Total 21-40-46000 OPERATIONAL EXPENSES:					2,766.90
21-40-46211 STREET REPAIR MATERIAL					
STREETS	COCHISE COUNTY TREASURE	16-0107	CUSTOM MOTORCYCLE SIGN	01/07/2016	1,228.95
Total 21-40-46211 STREET REPAIR MATERIAL:					1,228.95
21-40-61000 VEHICLE PARTS & LABOR					
STREETS	WILLCOX AUTO PARTS INC.	99062	OIL FILTER	01/05/2016	2.99
STREETS	WILLCOX AUTO PARTS INC.	99091	OIL FILTER	01/05/2016	3.12
STREETS	WILLCOX AUTO PARTS INC.	99108	TRANS FLU	01/05/2016	61.68
STREETS	WILLCOX AUTO PARTS INC.	99109	6011-10LBS	01/05/2016	61.35
STREETS	WILLCOX AUTO PARTS INC.	99274	FITTING	01/07/2016	16.22
Total 21-40-61000 VEHICLE PARTS & LABOR:					145.36
21-40-62003 GASOLINE					
STREETS	SENERGY PETROLEUM	254911	STREETS FUEL/UNLEADED	01/12/2016	1,614.92
Total 21-40-62003 GASOLINE:					1,614.92
21-40-62004 DIESEL					
STREETS	SENERGY PETROLEUM	254911	STREETS FUEL/DIESEL	01/12/2016	2,106.00
Total 21-40-62004 DIESEL:					2,106.00
MISC. DONATIONS					
FUND EXPENDITURES					
48-40-22504 RYAN MIELE ENDOW/ANIMAL WELFAR					
MISC. DONATIONS	COCHISE ANIMAL HOSPITAL	21756	VETERINARY SERVICES/RUSTY	12/03/2015	96.40
MISC. DONATIONS	COCHISE ANIMAL HOSPITAL	21756	VETERINARY SERVICES/FOSTER	12/03/2015	306.01
MISC. DONATIONS	COCHISE ANIMAL HOSPITAL	21756	VETERINARY SERVICES/JACK	12/03/2015	427.41
MISC. DONATIONS	COCHISE ANIMAL HOSPITAL	21756	VETERINARY SERVICES/BELLA	12/03/2015	66.15
MISC. DONATIONS	COCHISE ANIMAL HOSPITAL	21756	VETERINARY SERVICES/SIMON	12/03/2015	127.79
MISC. DONATIONS	FLOOD, KATHLEEN BELLE	16-0115	PRESCRIPTION FOR CATS	01/15/2016	11.11
MISC. DONATIONS	FLOOD, KATHLEEN BELLE	16-0119	PRESCRIPTION FOR CATS	01/19/2016	10.00
Total 48-40-22504 RYAN MIELE ENDOW/ANIMAL WELFAR:					1,044.87
AIRPORT FUND					
FUND EXPENDITURES					
50-40-22000 WATER					
AIRPORT FUND	NACO WATER COMPANY LLC	090018500-01-	NACO WATER/AIRPORT	01/21/2016	210.23
Total 50-40-22000 WATER:					210.23
50-40-24000 TELEPHONE & FAX					
AIRPORT FUND	CENTURY LINK	426B-01-16	PHONE SERVICES-AIRPORT	01/25/2016	32.28
AIRPORT FUND	CENTURY LINK	703B-01-18	PHONE SERVICES-AIRPORT	01/25/2016	33.92

Fund	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount
Total 50-40-24000 TELEPHONE & FAX:					66.20
SEWER FUND					
FUND EXPENDITURES					
54-40-21000 ELECTRIC					
SEWER FUND	AZ PUBLIC SERVICE (2 of 3)	604550288-01-	ELEC-42 WARREN CUT OFF BLDG A/SEWER	01/21/2016	30.57
SEWER FUND	AZ PUBLIC SERVICE (2 of 3)	918873289-01-	ELEC-42 WARREN CUT OFF BLDG B/SEWER	01/21/2016	804.70
Total 54-40-21000 ELECTRIC:					835.27
54-40-22000 WATER					
SEWER FUND	AZ WATER COMPANY	03109081151-	WATER/HWY 80 SEWER POND	01/21/2016	214.69
Total 54-40-22000 WATER:					214.69
54-40-24000 TELEPHONE & FAX					
SEWER FUND	CENTURY LINK	282B-01-16	PHONE SERVICES-WW	01/25/2016	169.51
SEWER FUND	CENTURY LINK	424B-01-16	PHONE SERVICES-WW	01/25/2016	33.00
Total 54-40-24000 TELEPHONE & FAX:					202.51
54-40-24001 INTERNET ACCESS FEE					
SEWER FUND	CABLE ONE	16-0126/WW	INTERNET SVC/WW	01/25/2016	67.99
Total 54-40-24001 INTERNET ACCESS FEE :					67.99
54-40-34000 CONTRACT SERVICES					
SEWER FUND	PRUDENTIAL OVERALL SUPPL	210790379	UNIFORMS/WW	01/14/2016	169.36
Total 54-40-34000 CONTRACT SERVICES:					169.36
54-40-34100 DOC WORKERS					
SEWER FUND	AZ STATE PRISON Cmplx-DOU	16-0112WW	DOC LABOR CREW/WW	01/12/2016	54.00
Total 54-40-34100 DOC WORKERS:					54.00
54-40-41500 OFFICE SUPPLIES					
SEWER FUND	OFFICE DEPOT	816177423001	PADFOLIO	12/31/2015	10.82
SEWER FUND	OFFICE DEPOT	816177508001	BINDER	12/31/2015	2.92
Total 54-40-41500 OFFICE SUPPLIES:					13.74
54-40-45100 DISPOSABLE EQUIP & TOOLS					
SEWER FUND	ACE HARDWARE	16848	FASTENERS	01/06/2016	9.38
SEWER FUND	ACE HARDWARE	16880	WRENCH SET, FUNNEL, SOCKETS	01/11/2016	121.92
SEWER FUND	HOME DEPOT CREDIT SERVIC	15-1221	PORTABLE COMPRESSOR	12/21/2015	323.07
Total 54-40-45100 DISPOSABLE EQUIP & TOOLS:					454.37
54-40-46000 OPERATIONAL EXPENSES					
SEWER FUND	ACE HARDWARE	16846	GREASE FARM, IND LMX	01/06/2016	10.94
SEWER FUND	ACE HARDWARE	16882	SHOCK N SWIM	01/11/2016	18.62
SEWER FUND	B&D LUMBER & HARDWARE	141677	PAINT	01/04/2016	16.90
SEWER FUND	B&D LUMBER & HARDWARE	141682	GREASE GUN	01/04/2016	15.45
SEWER FUND	B&D LUMBER & HARDWARE	141687	OSB	01/04/2016	18.07
SEWER FUND	B&D LUMBER & HARDWARE	141699	OSB	01/04/2016	18.07

Fund	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount
SEWER FUND	B&D LUMBER & HARDWARE	141719	SAW	01/05/2016	38.93
Total 54-40-46000 OPERATIONAL EXPENSES:					136.98
54-40-46542 LAB SUPPLIES & TESTING					
SEWER FUND	CONNEY SAFETY PRODUCTS	5072002	GLV SHW NDX	01/06/2016	100.45
SEWER FUND	CONNEY SAFETY PRODUCTS	5072728	GLV SHW NDX	01/07/2016	100.45
Total 54-40-46542 LAB SUPPLIES & TESTING:					200.90
54-40-46543 MANHOLE, PIPE & FITTINGS					
SEWER FUND	FERGUSON WATERWORKS #1	WT004879	CI VLV BX W/ SWR LID	12/10/2015	307.63
Total 54-40-46543 MANHOLE, PIPE & FITTINGS:					307.63
54-40-55000 EQUIPMENT REPAIR & MAINT					
SEWER FUND	UV DOCTOR SYSTEMS LLC	3050	QUARTZ SLEEVE TROJAN, FUSE, WIPER	12/02/2015	548.00
SEWER FUND	UV DOCTOR SYSTEMS LLC	3088	QUARTZ SLEEVE TROJAN, FUSE, WIPER	12/09/2015	303.00
SEWER FUND	UV DOCTOR SYSTEMS LLC	3102	QUARTZ SLEEVE TROJAN, FUSE, WIPER	12/30/2015	268.60
SEWER FUND	UV DOCTOR SYSTEMS LLC	3103	FUSE CC TIME DELAY	12/30/2015	98.60
SEWER FUND	UV DOCTOR SYSTEMS LLC	3104	TROJAN 3000, MODULE BOARD	12/30/2015	283.60
Total 54-40-55000 EQUIPMENT REPAIR & MAINT:					1,501.80
54-40-61000 VEHICLE PARTS & LABOR					
SEWER FUND	TITAN MACHINERY	7135878 GP	KIT, WASHER THRUST, SEAL, CLAMP	12/29/2015	1,316.27
Total 54-40-61000 VEHICLE PARTS & LABOR:					1,316.27
SANITATION FUND					
FUND EXPENDITURES					
56-40-34100 DOC WORKERS					
SANITATION FUND	AZ STATE PRISON Cmplx-DOU	16-0112REC	DOC LABOR CREW/REC	01/12/2016	90.00
SANITATION FUND	AZ STATE PRISON Cmplx-DOU	16-0112SAN	DOC LABOR CREW/SAN	01/12/2016	54.00
Total 56-40-34100 DOC WORKERS:					144.00
56-40-46000 OPERATIONAL EXPENSES					
SANITATION FUND	SIERRA VISTA HERALD	12044	GARBAGE SCHEDULE	12/31/2015	358.75
Total 56-40-46000 OPERATIONAL EXPENSES:					358.75
56-40-55200 NON CAP EQUIP PURCHASES					
SANITATION FUND	WASTE SYSTEMS SUPPLY	67142	DUMPSTER LIDS	12/31/2015	3,277.72
Total 56-40-55200 NON CAP EQUIP PURCHASES:					3,277.72
56-40-61000 VEHICLE PARTS & LABOR					
SANITATION FUND	WILLCOX AUTO PARTS INC.	99010	REMANS	01/04/2016	67.47
SANITATION FUND	WILLCOX AUTO PARTS INC.	99063	UBOLT KIT	01/05/2016	27.94
Total 56-40-61000 VEHICLE PARTS & LABOR:					95.41
BISBEE PUBLIC WORKS GRANTS					
GRANT EXP - PUBLIC WORKS					
57-40-22554 WWTP GRANTS					
BISBEE PUBLIC WORKS GRANTS	PACIFIC ADVANCED CIVIL ENG	97583	SAN JOSE WWTP SOLAR & EQUIP. BAY APP. 22	12/31/2015	1,483.79

Fund	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount
Total 57-40-22554 WWTP GRANTS:					1,463.79
QUEEN MINE FUND					
FUND EXPENDITURES					
59-40-21000 ELECTRIC					
QUEEN MINE FUND	AZ PUBLIC SERVICE (2 of 3)	035940289-01-	ELEC-HWY 80 QM	01/21/2016	2,372.98
Total 59-40-21000 ELECTRIC:					2,372.98
59-40-24000 TELEPHONE & FAX					
QUEEN MINE FUND	CENTURY LINK	406B-01-16	PHONE SERVICES-QM	01/25/2016	136.81
Total 59-40-24000 TELEPHONE & FAX:					136.81
59-40-46000 OPERATIONAL EXPENSES					
QUEEN MINE FUND	WEST, JIM	871432	REIMBURSEMENT/SUPPLIES	01/18/2016	34.13
Total 59-40-46000 OPERATIONAL EXPENSES:					34.13
59-40-46591 MERCHANDISE					
QUEEN MINE FUND	GRAEME, DOUGLAS	16-0128	PETTY CASH-GEM SHOW	01/28/2016	2,000.00
Total 59-40-46591 MERCHANDISE:					2,000.00
BISBEE BUS FUND					
FUND EXPENDITURES					
96-40-41606 CCS OPERATING EXPENSES					
BISBEE BUS FUND	CATHOLIC COMMUNITY SERVI	15-1014	MONTHLY BILLING/ OCT 15	10/14/2015	13,148.25
Total 96-40-41606 CCS OPERATING EXPENSES:					13,148.25
96-40-41607 CITY OPERATING EXPENSE					
BISBEE BUS FUND	CITY OF DOUGLAS	20160115310	BUS OPERATING SERVICES/DECEMBER	01/15/2016	20,111.00
Total 96-40-41607 CITY OPERATING EXPENSE:					20,111.00
Grand Totals:					199,611.03

Fund	Vendor Name	Invoice Number	Description	Invoice Date	Net Invoice Amount
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Dated: _____

Mayor: _____

City Council: _____

City Recorder: _____



REQUEST FOR MAYOR & COUNCIL ACTION
Session of: February 2, 2016

Regular Special

DATE ACTION SUBMITTED: <u>January 26, 2016</u>	
REGULAR <input type="checkbox"/>	CONSENT <input checked="" type="checkbox"/>
TYPE OF ACTION:	
RESOLUTION <input type="checkbox"/>	ORDINANCE <input type="checkbox"/>
FORMAL ACTION <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>
SUBJECT: APPROVAL OF THE MINUTES OF THE WORK SESSION OF MAYOR AND COUNCIL HELD ON NOVEMBER 10, 2015 AT 5:30PM	

FROM: Ashlee Coronado, City Clerk

RECOMMENDATION: Approve Minutes

PROPOSED MOTION: I move to approve the Minutes of the Work Session of Mayor and Council held on November 10, 2015 at 5:30PM

DISCUSSION:

FISCAL IMPACT: No Impact.

DEPARTMENT LINE ITEM ACCOUNT: NA

BALANCE IN LINE ITEM IF APPROVED: NA

Prepared by: Ashlee Coronado
Ashlee Coronado, City Clerk

Reviewed by: Ron Oertle
Ron Oertle, Mayor

MINUTES

MINUTES OF THE WORK SESSION OF THE MAYOR AND COUNCIL OF THE CITY OF BISBEE, COUNTY OF COCHISE, STATE OF ARIZONA, HELD ON TUESDAY, NOVEMBER 10, 2015, AT 5:30 PM IN THE BISBEE MUNICIPAL BUILDING, 118 ARIZONA STREET, BISBEE, ARIZONA.

THE MEETING WAS CALLED TO ORDER BY MAYOR OERTLE AT 5:35 PM.

ROLL CALL

COUNCIL

Councilmember Eugene Conners, Ward I EXCUSED
Councilmember Joan Hansen, Ward II
Councilmember Shirley Doughty, Ward III
Mayor Ronald Oertle
Councilmember Anne Cline, Ward III, Mayor Pro Tempore ABSENT
Councilmember Douglas Dunn, Ward II
Councilmember Serena Sullivan, Ward I

STAFF

Jestin Johnson, City Manager
Ashlee Coronado, City Clerk
Albert Echave, Police Chief

CITY ATTORNEY

Britt Hanson

THE FOLLOWING ITEM WILL BE DISCUSSED AT THIS MEETING:

1. Discussion, Presentation and Possible Recommendation by the Homeless Task Force.
Joan Hansen, Councilmember Ward II

Mayor Oertle said that this Work Session was being held at the request of Councilmember Hansen and he deferred over to her.

Councilmember Hansen said that she was pleased to have been a part of the Task Force but said that Linda Weiland and Donna Pulling did the majority of the work. A tremendous amount of work had been done in the last four months. This was an opportunity for Council to see what the Task Force had been able to accomplish and also to hear the recommendations from the Task Force. They were also looking for impute from the Council and the Public. She introduced Ms. Linda Weiland.

Ms. Weiland said that she was a Bisbee resident and the Co-Chair of the Bisbee Homeless Task Force. She thanked Mayor and Council for this Work Session. She went on to present a slide show regarding the Homeless Task Force that informed the Council of the process that had been taken (slideshow is attached as Exhibit A). She gave statistics for the homeless population within Bisbee and Cochise County. She listed the different groups that worked on various tasks. Ms. Weiland said that at the next Council Meeting the Homeless Task Force would be formally presenting their recommendations for approval.

Councilmember Sullivan asked what services were available in Bisbee and which were not. She also asked if there were any goals proposed towards getting those services instead of coordinating with Sierra Vista and Douglas.

Ms. Weiland stated that some of the services that were lacking in Bisbee were provided by the Wellness Connection in Sierra Vista and Douglas. She listed the many different functions that the Wellness Connection provides.

Ms. Weiland continued with the slideshow presentation. She went over what services are available and what services are needed. She explained projects that had been completed by the Task Force, such as Bisbee's Guide to services. She spoke about the 2015 point in time count along with affordable housing.

Mayor Oertle asked questions regarding the statistics Ms. Weiland had stated and noted the fact that Homelessness was increasing across America.

Ms. Weiland played a video of interviews regarding some of the services being offered to the homeless population. She then continued with her slideshow presentation.

Beth Grady and Amy Devon both from Cempatico explained the many services they offer such as Nurse Wise. She said that they wanted to be involved with the community. She explained the Crisis Mobile Team and said that that team was available to anyone in our eight counties, regardless of the insurance the person has. She explained the process of accessing different services through Cempatico.

Councilmember Sullivan said that the majority of people she talked to didn't have or can't obtain insurance so they are left out on the necessary care they need. Councilmember Sullivan asked if there was anything that could help with that.

Amy Devon replied that there are grants to assist with things like substance abuse, but if the person has no insurance at all Cempatico would be limited. She went on to say that they had staff available to assist people with ACCHS applications.

Jed Henry Witowski asked if services were available to persons who are not in a crisis situation. He also asked if people who observed a crisis situation could call in.

Amy Devon replied that these services are available to anyone who calls in, the person in crisis, witnessing a crisis, police etc. A mobile team would be dispatched once a call came in. This service was available to anyone.

Chief Echave said that there was training scheduled for the police officers regarding mental health training. He said that this was law enforcement specific and other agencies have been invited. He spoke regarding his dealing with Nurse Wise. He said that his officers know that if they are dealing with a person in crisis they need to contact Nurse Wise, once the team responds they are able to leave and return to service. The average wait time for a team to arrive is around 30 minutes.

Ms. Weiland continued with the slideshow presentation. She also played a video interview.

Karen Uhlich, Director of Housing Administration for Cempatico said that the system had developed more in response to the strength of the provider network that existed in the community in different areas and it had been quite spotty. There was a real commitment on the part of Cempatico they are real interested in working with us to find out where the gaps are and to make sure that Cempatico develops a network that was more responsive.

Jed Henry Witowski, stated his experiences dealing with the existing agencies. He said that there were so many hoops to jump through to get any type of assistance.

Ian Dorofey said that the following letter was a product of having attempted to engage the homeless to participate in the Task Force. He talked about some of the programs available in Utah that were successful in providing homes for the homeless. He stated reasons that the homeless did not want to participate in the Homeless Task Force.

Councilmember Sullivan asked if the homeless camp behind Safeway was bulldozed because of the Homeless Task Force.

Linda Weiland requested to address that question. She said that she lives in the San Jose Area and for several years there was a problem on the City property behind Safeway that everyone should be able to enjoy. It came to be that a large homeless encampment was developed and that area became unsafe to walk through because there was broken glass, trash, etc. She went on to say that she contacted the City about enforcement issues and attended the neighborhood watch meetings to state her concerns. At one point the City Manager had the area cleaned up. Then more homeless people showed up. She said that after the shooting happened they wanted to find better ways to approach the homeless problem, to provide services to the homeless while keeping the peace within the community.

Ms. Weiland continued with the slideshow presentation going over the different work groups of the Homeless Task Force. She also played two videos regarding the one stop shops and mandatory mental health training for first responders. Ms. Weiland went over the recommendations made by the Task Force. They recommended the following;

- Consider Adoption of Draft Police Procedure – “Interacting with Persons Experiencing Mental Illness or in Crisis”
- Encourage First Responder Participation in the Cenpatico Cochise County Crisis System quarterly meetings
- Support grant funding partnerships, joining the City, Homeless Task Force, and local nonprofits together to collaborate on grant applications, with the City providing letters of recommendation and possible grant administration assistance
- Establish Strategic Plan priorities including:
 - Economic Development, especially job development, training and small business startup opportunities, and
 - Affordable HousingAnd identify those as priorities for SEAGO grant searches
- Continue to provide the Council Chambers for monthly Bisbee Homeless Task Force meetings

Councilmember Sullivan said that she had hoped that more of the real issues had come up with the Task Force. She said things like showers, washing clothes were very important.

Councilmember Hansen said that this was still very much a work in progress. There was still room to do all these things. This was just the start. She was floored on how much the Task Force was able to accomplish.

Mayor Oertle thanked all involved.

MOTION: Councilmember Sullivan moved to adjourn the meeting.

SECOND: Councilmember Hansen

MOTION PASSED: UNANIMOUSLY

ADJOURNMENT: 7:53pm

Ronald Oertle, Mayor



City Council Work Session – November 10, 2015

Task Force Participants

- NAMI
- SEAGO
- Chiricahua Comm Health Centers
- City of Bisbee
- Cochise County
- Sierra Vista Good Neighbor Alliance
- Bisbee Coalition for the Homeless
- Cenpatico
- ACTS
- CIA
- Community Bridges
- Wellness Connections
- Local Media
- Community Members
- American Red Cross
- Many Others

Mission Statement

- Seeking Out Solutions (SOS) to Prevent and End Homelessness* in Bisbee

*Our definition of Homeless: Anyone who is, was, or is at risk of becoming homeless

Guides

- Department of Justice - Community Oriented Policing Guides
- Other Cities' Experiences
- SARA decision making model
 - Scanning
 - Analysis
 - Response
 - Assessment

Brainstorming

- What services available?
- What services needed?

- What is going well?
- Where are the Gaps?

Strengths / Weaknesses

- Lots of Services
- Bisbee Coalition for the Homeless
- Local service providers
- Found Gaps Existed

Work Groups

- Brochure
- First Responder
- Mental Health
- Housing
- Justice System / Courts
- One Stop Shop

Projects Completed

- Bisbee's Guide to Services
- Draft Police Procedure
- Mental Health First Aid training
- One Stop Shop - information and services
- Network to Bring People Together

Causes of Homelessness

- Lack of Employment
- Lack of Affordable Housing

- Mental Illness
- Substance Abuse
- Domestic Violence
- Disability
- Incarceration

2015 Point in Time Count

- Sheltered: 31 Bisbee/ 316 County
- UnSheltered: 37 Bisbee/ 90 County
 - Single Male Adult (over 24 yr.)
 - Living Alone
- How Long Homeless
 - Less than 6 mo – 14%
 - Over 24 months – 54%

2015 Point in Time Count

- Reason for Being Homeless:
 - Unemployed: 46%
 - Not sufficient Employment: 6%
 - Substance Abuse: 14%
 - By Choice: 8%
 - Housing costs: 6%
- Employed:
 - P/T: 10%
 - Full: 2%

2015 Point in Time Count

- Time in AZ
 - All my Life 26%
 - 2+ yrs: 43%
 - Year Round 90%
- Conditions
 - Mental Health
 - Substance Abuse
 - SMI
 - Injury

Affordable Housing

- 26% in Bisbee under Poverty Level
- Less than 200 rental units under \$500/mo
- Almost 300 on waiting list for Section 8 housing

Work Groups

- Brochure
- Mental Health
- First Responders
- Housing
- Justice System / Courts
- One Stop Shop

Brochure work group

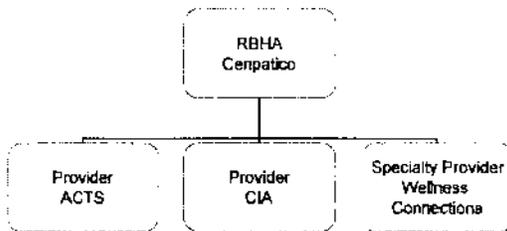
- Pocket sized guide for people needing services
- Bisbee's Guide to Services

Brochure work group Goals

- Print and distribute Bisbee's Guide to Services
- Update every 6 months

Mental Health work group

AZ Behavioral Health System



Mental Health work group

- Cenpatico is RBHA for So. Arizona
- Cenpatico contracts with CIA, ACTS for services

- Identified gaps
- Wrote Letter to Cenpatico

Cenpatico's Response

- Mental Health First Aid

- Community Educational Speaker Series

- Improve Grievance and Appeal process

- Grant writing assistance

Mental Health work group Goals

- Participate in Cenpatico Community Advisory Council meetings

- Community Mental Health education to reduce stigma of Mental Illness

First Responders work group

- First Responder work group**
- Identified gaps
 - Need procedure for interacting with people experiencing Mental Illness
 - Officers need Mental Health First Aid training
 - Need more effective Mobile Crisis Team (Nursewise)

- First Responder work group
Research**
- Surveyed current literature
 - President's Task Force on 21st Century Policing
 - International Chiefs of Police
 - Police Executive Research Forum

First Responder - Current Theory

- Officer Safety is first priority
- Traditional police training is not effective with mentally ill
- Skills required - de-escalation, patience

First Responder work group Process

- Researched police procedures
- Selected the best
- Blended the best to create
Draft Procedure

First Responders work group Goals

- Have City of Bisbee adopt the draft Police Procedure for interacting with people who are experiencing mental illness or in crisis
- Provide Mental Health First Aid Training for First Responders

Housing work group

Current Housing Theory

- Prevent homelessness
- Rapid Re-housing
- Permanent Supportive Housing
- Housing First Model

Housing work group Findings

- Lack of Permanent Supportive Housing
- Lack of Affordable Housing
- Cenpatico provides housing for SMI

Housing work group Goals

- Cenpatico to purchase 2 houses for SMI
- Obtain grants for permanent housing for chronically homeless (Housing First)
- Low Income Housing in City Strategic Plan

Justice System / Courts work group

Current Justice System theory

- Nationwide – Jail Diversion programs for Mentally Ill and Substance Abuse
- AZ Plan – prevent inmate release to Homelessness by 12/2015

**Justice System / Courts work group
Findings**

- Need for more coordination of services
- Need more resources at the Jail
- Need more funding/staff for mental health court in JP1

Jail Diversion

- JP5 CARE Court in Sierra Vista
- JP1 Developing a Mental Health Court

**Justice System / Courts work group
Goals**

- Provide Bisbee's Guide to Services
- Support Mental Health or CARE Court - Jail Diversion program for JP1
- Improve Jail intake / release process
- Integrate Cenpatico to help develop and fund CARE Court for JP1 in Bisbee

One Stop Shop work group

Definition: A place to coordinate service providers in one location

**USICH recommends –
Build Capacity in Community to**

- Identify and engage people
- Intervene to prevent loss of housing
- Quickly connect people to housing assistance and services
- Provide immediate access to shelter and crisis services without barriers
- While permanent stable housing and appropriate support is being secured

One Stop Shop Goals

- Provide Schedule of services at Shelter
- Expand services – add more agencies

**Recommendations
for City Council Approval**

- Adopt Police Procedure - Interactions with persons experiencing Mental Illness

**Recommendations
for City Council Approval**

- Implement Mental Health First Aid Training for First Responders

**Recommendations
for City Council Approval**

- Encourage First Responder participation in Genpatico Cochise County Crisis System quarterly meetings

**Recommendations
for City Council Approval**

- Support Partnerships - City, Task Force, local nonprofits for grant applications

**Recommendations
for City Council Approval**

- SEAGO grant service – Top 3 Priorities
- Economic Development strategies – especially
 - Employment
 - Training
 - Small business Startups
- Affordable Housing

**Recommendations
for City Council Approval**

- Continue to provide Council Chambers as meeting place for Homeless Task Force

Recommendations

- Adopt Police Procedure - Interactions with persons experiencing Mental Illness
- Participate in Cenpatco Cochise County Crisis System quarterly meetings
- Support Partnerships - City, Task Force, local nonprofits for grant applications
- SEAGO priorities Economic Development, Affordable Housing
- Continue to provide Council Chambers for Bisbee Homeless Task Force meetings

Questions and Comments

Thank you for your support

THE
BISBEE
HOMELESS
TASK FORCE





REQUEST FOR MAYOR & COUNCIL ACTION

Session of: February 2, 2016

Regular Special

DATE ACTION SUBMITTED: <u>January 27, 2016</u>	
REGULAR <input type="checkbox"/>	CONSENT <input checked="" type="checkbox"/>
TYPE OF ACTION:	
RESOLUTION <input type="checkbox"/>	ORDINANCE <input type="checkbox"/>
FORMAL ACTION <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>
SUBJECT: APPROVAL OF THE MINUTES OF THE REGULAR SESSION OF MAYOR AND COUNCIL HELD ON JANUARY 5, 2016 AT 7:00PM	

FROM: Ashlee Coronado, City Clerk

RECOMMENDATION: Approve Minutes

PROPOSED MOTION: I move to approve the Minutes of the Regular Session of Mayor and Council held on January 5, 2016 at 7:00PM

DISCUSSION:

FISCAL IMPACT: No Impact.

DEPARTMENT LINE ITEM ACCOUNT: NA

BALANCE IN LINE ITEM IF APPROVED: NA

Prepared by: Ashlee Coronado
Ashlee Coronado, City Clerk

Reviewed by: Ron Oertle
Ron Oertle, Mayor

MINUTES

MINUTES OF THE REGULAR SESSION OF THE MAYOR AND COUNCIL OF THE CITY OF BISBEE, COUNTY OF COCHISE, AND STATE OF ARIZONA, HELD ON TUESDAY, JANUARY 5, 2016, AT 7:00 PM IN THE BISBEE MUNICIPAL BUILDING, 118 ARIZONA STREET, BISBEE, ARIZONA.

THE MEETING WAS CALLED TO ORDER BY MAYOR OERTLE AT 7:03PM.

ROLL CALL

COUNCIL

Councilmember Eugene Conners, Ward I
Councilmember Joan Hansen, Ward II
Councilmember Shirley Doughty, Ward III Excused
Mayor Ronald Oertle
Councilmember Anna Cline, Ward III, Mayor Pro Tempore
Councilmember Douglas Dunn, Ward II
Councilmember Serena Sullivan, Ward I

STAFF

Jestin Johnson, City Manager
Ashlee Coronado, City Clerk
Sharon Buono, Finance Director
Marc Burneleit, Fire Chief
Andy Haratyk, Interim Public Works Director

CITY ATTORNEY

Elda Orduno

INVOCATION: Mayor Oertle asked for a moment of silence for the people we have known that have passed away over the past year.

PLEDGE OF ALLEGIANCE

MAYOR'S PROCLAMATIONS AND ANNOUNCEMENTS:

- Mayor Oertle wished the City of Bisbee a Happy Birthday; we were incorporated on January 9, 1902.
- Mayor Oertle handed out extraordinary service awards to; Joy Timbers, Charlene "Snoody" Borowiec and Audrey "Luche" Giacomino for their dedication and service to the City of Bisbee.

CALL TO THE PUBLIC

- Richard Green, Bisbee resident spoke about the petition he was working on for divesting in Wall Street and investing in Main Street.
- Karen Schumacher, Bisbee resident spoke regarding the time limits on call to the public. She gave a timer to Council. Mayor Oertle felt he was very liberal with the time for call to the public.
- McKenzie Musick, Bisbee resident spoke in opposition in forming a fire district. He talked about the double taxation and the increasing of property tax and insurance tax.
- Susan Blackford, Bisbee resident spoke about the firing of the Public Works Director and the Library Director. She asked if everyone knew both sides of the story. She also, asked the City Manager to cut his pay. She spoke about the previous Council wanting the incoming City Manager to be paid around the \$65,000 mark. She questioned if Andy Haratyk and the City Manager had the knowledge of a city engineer and to manage grants.

THE FOLLOWING ITEMS WERE DISCUSSED, CONSIDERED AND/OR DECIDED UPON AT THIS MEETING:

GENERAL BUSINESS:

1. ACCOUNTS PAYABLE: Subject to availability of funds.

MOTION: Councilmember Cline moved to approve Accounts Payable in the amount of \$341,399.74.

SECOND: Councilmember Connors

MOTION PASSED: UNANIMOUSLY

2. Approval of the Consent Agenda

- A. Approval of the Minutes of the Regular Session of Mayor and Council held on November 17, 2015 at 7:00PM.
Ashlee Coronado, City Clerk
- B. Approval of the Minutes of the Regular Session of Mayor and Council held on December 1, 2015 at 7:00PM.
Ashlee Coronado, City Clerk
- C. Approval of the Minutes of the Regular Session of Mayor and Council held on December 15, 2015 at 7:00PM.
Ashlee Coronado, City Clerk
- D. Approval of the Resignation of Faye Hoese from the Library Advisory Board.
Ashlee Coronado, City Clerk
- E. Approval of the Re-Appointment of Charles Perry and Richard Soto to the Airport Advisory Committee.
Ashlee Coronado, City Clerk
- F. Approval of the Re-Appointment of Charlene "Snoody" Borowiec and Audrey Giacomino to the Evergreen Cemetery Committee.
Ashlee Coronado, City Clerk
- G. Approval of the Re-Appointment of Jennifer Johnson, Karen Justice and Cinda Combs to the Library Advisory Board.
Ashlee Coronado, City Clerk
- H. Approval of the Re-Appointment of Jennifer Graeme and Kenneth Wallace to the Civil Service Commission.
Ashlee Coronado, City Clerk
- I. Approval of the Re-Appointment of Kay Lynn Cummins, Lawrence Cummins and Audrey Giacomino to the Parks and Recreation Committee.
Ashlee Coronado, City Clerk
- J. Approval of the Re-Appointment of Carrie Gustavson to the iBisbee Committee.
Ashlee Coronado, City Clerk

- K. Approval of the Re-Appointment of Stanley Stern to the Municipal Property Commission.

Ashlee Coronado, City Clerk

- L. Approval of the Re-Appointment William Bagby to the Public Safety Personnel Retirement Board.

Ashlee Coronado, City Clerk

- M. Approval of the Re-Appointment of Judy Anderson to the Planning and Zoning Commission.

Ashlee Coronado, City Clerk

MOTION: Councilmember Cline moved to approve the Consent Agenda items 2A-2M.

SECOND: Councilmember Sullivan

ROLL CALL VOTE:

AYES: Councilmember Conners, Hansen, Cline, Dunn, Sullivan and Mayor Oertle

NAYS: 0

MOTION PASSED: AYES-5; NAYS-0

OLD BUSINESS

NEW BUSINESS

- 3. Discussion and Possible Approval of a Formal Letter to Freeport McMoRan, Inc. regarding a possible Land Donation.

Ronald Oertle, Mayor

Mayor Oertle said that Freeport McMoRan requested a formal letter from the City of Bisbee regarding the possibility of a land donation to the City of Bisbee for the construction of housing units for the low income elderly.

Stanley Stern, Chairperson for the iBisbee Committee, spoke regarding the meeting with Michael Traylor from the Housing Authority. He also spoke about the plans that would include the park that will be built and the timeline regarding this project.

Councilmember Sullivan asked if the park being built would be owned and ran by the Foundation for Senior Living or would that be a separate development. Mr. Stern said that it would be owned by the City as part of the agreement the Foundation would provide maintenance for the park for a ten (10) year period. Councilmember Sullivan also asked about those chosen to receive the units would there be a special preference for people that have been living in Bisbee. Mr. Stern gave some statics, but said that there objective was to have senior living accommodations for the City of Bisbee.

Councilmember Cline thanked Mr. Stern and Mayor Oertle for all their hard work on this. She felt this was a great thing and very needed and the park was just the icing on the cake.

Councilmember Hansen also thanked Mr. Stern and Mayor Oertle. She said that this was very exciting to be one step further and to know that this was going to happen.

Mayor Oertle said that one person had been left out; Fred Miller had also been involved in this. He explained were the park might be and the building. He read the formal letter that was attached to the agenda item.

MOTION: Councilmember Dunn moved the approval of the Mayor's signature on this formal letter that Freeport McMoRan regarding possible land donation.

SECOND: Councilmember Hansen

MOTION PASSED: UNANIMOUSLY

4. Discussion and Possible Approval of a Contract with Emergency Vehicle Group, Inc. for the Purchase of an Ambulance.

March Burneleit, Fire Chief

Marc Burneleit, Fire Chief said they were asking for approval of the purchase of a new ambulance. He explained that the City of Bisbee was awarded a FEMA grant for this year and that \$140,000.00 of that grant was earmarked for an ambulance. They received four (4) bids and that EVG (Emergency Vehicle Group, Inc.) came in at the closets price to the bid price. The total cost would be \$139,171.37. There are some stipulations that the vehicle needs to be in service, registered and running calls no later than August 5th of this year that eliminated some of the other bids.

Audrey "Luche" Giacomino said we are in need of this ambulance. She thanked the Fire Department for seeking out the grant.

Mayor Oertle stated that the grant was for about \$350,000.00 so the other part would be going to a new fire truck.

Councilmember Cline said that the Fire Department works extremely hard every day all day and they are still out there looking for grants. She was so thankful that we were chosen this year and that we were able to get an ambulance and fire truck.

MOTION: Councilmember Hansen moved to approve the Contract with Emergency Vehicle Group Inc. for the purchase of an ambulance.

SECOND: Councilmember Connors

MOTION PASSED: UNANIMOUSLY

5. Discussion and Possible Direction to Staff regarding preparing a Report describing the specific Circumstances that would force and Arizona Charter City into Bankruptcy and/or Dissolution as an Incorporated Municipality as Requested by Petitioner Eric Fahrner.

Ronald Oertle, Mayor

Mayor Oertle stated that Mr. Fahrner had turned in two (2) petitions and the second petition requesting a Work Session regarding a financial discussion was held on December the 8th. He stated that Mr. Fahrner's petition regarding what would happen if an Arizona Charter City would be forced into Bankruptcy and/or dissolution as an incorporated municipality. He said that the City was not in bankruptcy we are paying our bills, money was still rolling in. It was referred over the City Attorney's office, but it was not urgent because we are not anywhere near bankruptcy and that our economic situation did need to be addressed. Mayor Oertle referred over to the City Attorney Ms. Elda Orduno.

Ms. Orduno stated that the City Attorney's office looked into this and explained what would qualify for a City to file bankruptcy and the requirements. She said that the City was paying their bills there was no suggestions that the City won't continue to pay their bills. So at this point the City Attorney's office felt that they didn't need to take it any further than that.

Mayor Oertle said that the petition would be filed.

6. Discussion and Possible Approval Directing the City Manager to look at Fire District as to Feasibility of Implementation.

Joan Hansen, Councilmember Ward II

Douglas Dunn, Councilmember Ward II

Councilmember Hansen said that she knew this was a very hot topic. She said that her purpose was to find out the facts.

Councilmember Dunn modified the motion; I move to direct the City Manager to look at a fire district and explore other funding alternatives for fire and related services as to feasibility of implementation. Councilmember Connors second the motion.

Audrey "Luche" Giacomino, Bisbee resident said that it was important to have a good fire department. She spoke about the increase to property taxes. Properties would increase by 5%. Right now they are assessed at 10% of the value. It would change to 15% of the assessed value. She also spoke about the historic district increasing by 2.5%. She said that a fire district to her was ridiculous in this town because this fire department and there ambulance service has brought in over a million dollars a year and to just dismiss that it was horrendous to her.

Ken Budge, Bisbee resident shared some of his experiences and gave handouts with information to the clerk regarding a Fire District, Budget and the Public Safety Personnel Retirement System. He discussed all of his findings in detail.

Ms. Buono, Finance Director pointed out that property tax funds all public safety not just fire.

Mr. Budge continued discussing his findings. He felt that we had a debt problem not a Fire Department problem or a service problem. If somehow we could start paying down the debt which will take real money to do that and it will take some time. He explained his idea to help the situation of paying down the debt.

Councilmember Sullivan asked about the special taxing district for the public service improvement. Mr. Budge said there was a long list of different kinds of special taxing districts. Councilmember Sullivan asked if that was something we could do temporarily until the debt was paid off. Mr. Budge said sure if you could use this district to improve and enhance services you could disband it once the debt was paid it could go away. He said that it would need to be laid out so that people are clear about it.

Mayor Oertle wanted to clarify for the public that a Fire Board would be completely autonomous from the City, completely separated. Mayor Oertle said that we are doing the inter-facility transfers from Douglas right now and asked the City Manager if that was correct. Mr. Johnson said that if there was a transfer coming from Douglas that particular transfer comes up to Copper Queen Hospital and we take the transfer from there. Mayor Oertle said that we have to look at this on the business side that it was a revenue enhancer

Councilmember Hansen commented that as soon as Copper Queen Hospital opens there emergency room/ urgent care that the inter-facilities would stop.

Councilmember Cline said that she didn't believe that would stop. The emergency room would be a standalone emergency room. She said that we have so many transfers right now from the hospital that we would still have transfers from a standalone emergency room. Councilmember Hansen said that we would not have the numbers that we have right now.

Councilmember Hansen said that she appreciated all the information Mr. Budge had given. She said that the whole purpose of this being on the agenda was not to debate whether or not it was a good idea it was to find out the facts, to get what it would take and it maybe that there are too many hurdles, but that was what she would like to know. She would like the City Manager to take a look at the entire situation and taking into account alternatives.

Councilmember Cline thanked Mr. Budge for the information that he has brought forward. She said that how this came up on the agenda was really kind of vague and that this discussion had been done before. She also said that Police and Fire need to know that they are supported by the City and the Council.

Councilmember Hansen said that she does support them and she was looking at all alternatives. She said all she was asking for was a study of what would it take.

Joni Giacomino, Bisbee resident stated that she already paid a whole lot in property taxes. She asked what would happen to the elderly people on fixed incomes. She felt we had one of the best Fire Departments in the state.

Susan Blackford, Bisbee resident thanked Councilmember Hansen for wanting to get the facts. She spoke regarding the dangers of a fire district. She listed her concerns. Felt it would be a violation of the City Code by going into a fire district. She also spoke about home owners insurance and property value rates. She felt that the City of Bisbee would lose control. She went over some of the rules of a fire district.

Councilmember Dunn reiterated the motion that he had made earlier. He spoke regarding the earlier session regarding looking for funding alternatives where he presented three (3) pages of ideas. He still felt that a Fire District would be extremely challenging if at all possible. He said that what could be done in a creative manner to look at all options, what would be possible in terms of utilizing a fire district to finance our existing Fire Department. He said that our current budget was unsustainable and public safety needs to know that this Council was working diligently to show them that they are supported by ensuring that this department was sustainable over the long term. We need to look at all the options.

Councilmember Sullivan suggested an amendment to the motion. She would like to have a panel of people looking at this not just the City Manager. Councilmember Dunn stated that was what City Managers do.

Councilmember Cline thought that the City Manager had probably taken note of what is being requested and he does have information. He will be working with the Fire Chief very closely and those that are in the know.

Councilmember Hansen wanted to thank Councilmember Dunn for being so eloquent on the subject. She stated that was the whole thing in getting the facts so that we could make an intelligent decision.

Councilmember Conners stated that the people wanting the City Manager to look into the feasibility and try to get to the facts. He felt that they were being distracted by words like destroy, true facts, correct facts, you are not from here, you don't support us, we have tried it and said that these are different times the economy was different, the population was different everything was different except for the people that are afraid that things are going to change and things are going to change. We will have fire personnel to put out fires. The City Manager was asking for direction and we are trying to give him direction. He said that they do support the fire and the police.

MOTION: Councilmember Dunn moved to direct the City Manager to look at a Fire District and explore other funding alternatives for Fire and related services as to feasibility of implementation.

SECOND: Councilmember Conners

ROLL CALL VOTE:

AYES: Councilmember Conners, Hansen, Dunn, Sullivan.

NAYS: Councilmember Cline and Mayor Oertle.

MOTION PASSED: AYES-4; NAYS-2

7. City Manager's Report:

- Other current events
- Mr. Johnson spoke regarding a \$20,000 donation to the Copper Queen Library coming from the estate of Charles Angus.
- Mr. Johnson said that there had been an increase in Building Permits issued in 2015.
- Mr. Johnson stated that the Cochise Animal Hospital donated some refurbished cat cages to the City of Bisbee by way of the Friends of Bisbee Animal Shelter.
- Mr. Johnson said that the Visitor Center for the Calendar year 2015 the Queen Mine served 38,498 visitors.
- Mr. Johnson said that we may be able to pull employees off of Furlough.
- Mr. Johnson spoke regarding Eric Vega in Sanitation who had reached his first milestone he completed his 6months probationary period with the City. He also spoke regarding having the public works department evaluating all the street signs in the City.

COUNCIL COMMENTS OR FUTURE AGENDA ITEM SUGGESTIONS: (Council members may suggest topics for future meeting agendas, but Council will not here discuss, deliberate or take any action on these topics.):

MOTION: Councilmember Conners moved to adjourn the meeting.

SECOND: Councilmember Cline

MOTION PASSED: UNANIMOUSLY

ADJOURNMENT: 8:55PM

Ronald Oertle, Mayor



REQUEST FOR MAYOR & COUNCIL ACTION

Session of: February 2, 2016

Regular Special

DATE ACTION SUBMITTED: <u>January 14, 2016</u>	
REGULAR <input type="checkbox"/>	CONSENT <input checked="" type="checkbox"/>
TYPE OF ACTION:	
RESOLUTION <input type="checkbox"/>	ORDINANCE <input type="checkbox"/>
FORMAL ACTION <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>
SUBJECT: APPROVAL OF THE APPOINTMENT OF PETER VON GUNDLACH TO THE AIRPORT ADVISORY COMMITTEE WITH A WAIVER OF NUMBER OF COMMISSIONS SERVED	

FROM: Ashlee Coronado, City Clerk

RECOMMENDATION: Approve

PROPOSED MOTION: I move to approve the Appointment of Peter Von Gundlach to the Airport Advisory Committee with a Waiver of number of Commissions Served.

DISCUSSION:

Mr. Von Gundlach has submitted his application to serve on the Airport Advisory Committee.

If approved, Mr. Von Gundlach will serve on the board until January 2019.

FISCAL IMPACT: NA

DEPARTMENT LINE ITEM ACCOUNT: NA

BALANCE IN LINE ITEM IF APPROVED: NA

Prepared by: Ashlee Coronado
Ashlee Coronado, City Clerk

Reviewed by: Ronald Oertle
Ronald Oertle, Mayor

Nina Williams

From: Peter von Gundlach <prepostsuris@gmail.com>
Sent: Thursday, January 14, 2016 11:50 AM
To: Nina Williams
Subject: Fwd: 2013 Board Committee Membership Application 032613.doc

----- Forwarded message -----

From: Peter von Gundlach (via Google Docs) <prepostsuris@gmail.com>
Date: Mon, Jan 4, 2016 at 8:53 PM
Subject: 2013 Board Committee Membership Application 032613.doc
To: prepostsuris@gmail.com
Cc: ACoronado@bisbeeaz.gov

RECEIVED

JAN 14 2016

CITY CLERK'S OFFICE
CITY OF BISBEE

Peter von Gundlach has attached the following document:

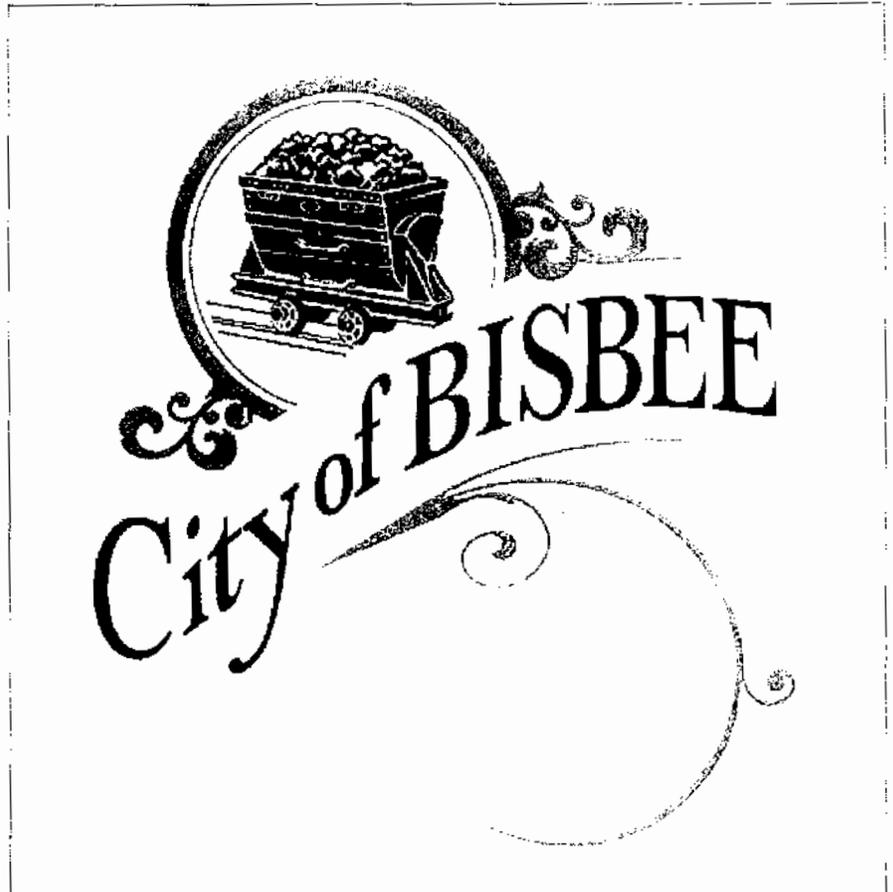


2013 Board Committee Membership Application 032613.doc



Thank you Ashlee

Snapshot of the item below:



BOARD / COMMISSION MEMBERSHIP APPLICATION
PLEASE PRINT CLEARLY IN INK OR TYPE

I hereby certify and affirm that all the information contained in this application is true, complete and correct. I understand that false or misleading statements or the omission of important information made on this application or any time during the process may disqualify me from volunteer work with the City of Bisbee. I understand that the Mayor and Members of the Council must approve any waiver request.

Signature: Peter von Gundlach

Date: 01/04/2016

When complete, please return to:

City Clerk Office 118 Arizona Street Bisbee, Arizona 85603 Fax 520.432.6069 E-mail: acoronado@cityofbisbee.com
nwilliams@cityofbisbee.com

Rev 03/2013

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Google



REQUEST FOR MAYOR & COUNCIL ACTION
Session of: February 2, 2016

Regular Special

DATE ACTION SUBMITTED: <u>January 26, 2016</u>	
REGULAR <input checked="" type="checkbox"/>	CONSENT <input type="checkbox"/>
TYPE OF ACTION:	
RESOLUTION <input type="checkbox"/>	ORDINANCE <input type="checkbox"/>
FORMAL ACTION <input type="checkbox"/>	OTHER <input checked="" type="checkbox"/>
SUBJECT: PRESENTATION ON THE BISBEE UNIFIED SCHOOL DISTRICT BY KIM KENNEDY.	

FROM: Joan Hansen, Councilmember WARD II

RECOMMENDATION: N/A

PROPOSED MOTION: Presentation Only

DISCUSSION:

This presentation is an update on the status of the school district and what lies ahead.

FISCAL IMPACT: N/A

DEPARTMENT LINE ITEM ACCOUNT: N/A

BALANCE IN LINE ITEM IF APPROVED: N/A

Prepared by: *Joan C. Hansen*
Joan Hansen
Councilmember WARD II

Reviewed by: *Ashlee Coronado*
Ashlee Coronado
City Clerk



REQUEST FOR MAYOR & COUNCIL ACTION
Session of: February 2, 2016

Regular Special

DATE ACTION SUBMITTED: <u>January 26, 2016</u>	
REGULAR <input checked="" type="checkbox"/>	CONSENT <input type="checkbox"/>
TYPE OF ACTION:	
RESOLUTION <input type="checkbox"/>	ORDINANCE <input type="checkbox"/>
FORMAL ACTION <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>
SUBJECT: DISCUSSION AND POSSIBLE APPROVAL OF REDUCING THE NUMBER OF COMMITTEE MEMBERS ON THE AIRPORT ADVISORY COMMITTEE FROM SEVEN TO FIVE	

FROM: Joan Hansen, Councilmember WARD II

RECOMMENDATION: Approval

PROPOSED MOTION: I move to approve reducing the number of Committee members on the Airport Advisory Committee from Seven to Five.

DISCUSSION:

The Airport Advisory Committee would like to have the number of committee members reduced from seven to five. The Committee is having difficulty obtaining and retaining members making it very difficult to have a quorum at meetings.

FISCAL IMPACT: N/A

DEPARTMENT LINE ITEM ACCOUNT: N/A

BALANCE IN LINE ITEM IF APPROVED: N/A

Prepared by: *Joan Hansen*
Joan Hansen
Councilmember WARD II

Reviewed by: *Ashlee Coronado*
Ashlee Coronado
City Clerk



REQUEST FOR MAYOR & COUNCIL ACTION
Session of: February 2, 2016

Regular Special

DATE ACTION SUBMITTED: <u>January 26, 2016</u>	
REGULAR <input checked="" type="checkbox"/>	CONSENT <input type="checkbox"/>
TYPE OF ACTION:	
RESOLUTION <input type="checkbox"/>	ORDINANCE <input type="checkbox"/>
FORMAL ACTION <input checked="" type="checkbox"/>	OTHER <input type="checkbox"/>
SUBJECT: DISCUSSION AND POSSIBLE APPROVAL OF A CONTRACT WITH WESTERN STATES FIRE EQUIPMENT FOR THE PURCHASE OF A FIRE TRUCK	

FROM: **Marc Burneleit, Fire Chief**

RECOMMENDATION: **Approve Purchase Contract**

PROPOSED MOTION: **I move to approve the Contract with Western States Fire Equipment for the Purchase of a Fire Truck**

DISCUSSION:

Pursuant to a Notice of Solicitation issued by the City for an Fire Truck, Western States Fire Equipment submitted the bid recommended by staff as the lowest, responsible bidder who has demonstrated the ability to perform as required, in the amount of \$178,780.00 plus tax and title in the amount of \$11,620.00 for estimated total purchase price of \$190,400.00

FISCAL IMPACT: **\$190,400**

DEPARTMENT LINE ITEM ACCOUNT: **FEMA Grant**

BALANCE IN LINE ITEM IF APPROVED:

Prepared by: *Marc Burneleit*
Marc Burneleit, Fire Chief

Reviewed by: *Justin Johnson*
Justin Johnson, City Manager

**PURCHASE CONTRACT
CITY OF BISBEE**

THIS PURCHASE CONTRACT ("Contract") is made this 2nd day of February, 2016, by and between the CITY OF BISBEE, an Arizona municipal corporation ("City") and Western States Fire Equipment, a(n) LLC ("Vendor").

WHEREAS, the City is in need of certain materials, supplies and/or equipment (hereinafter "Equipment") as more particularly specified in the Notice of Solicitation for an Ambulance and as incorporated herein by reference; and

WHEREAS, the Vendor has offered to provide the requested Equipment in accordance with the terms of this Contract.

NOW, THEREFORE, in consideration of the foregoing recitals, which are incorporated herein by reference, the following mutual covenants and conditions, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the City and the Vendor hereby agree as follows:

1. Equipment. The Vendor promises and agrees to provide the Equipment as described in the Specifications, Scope of Work or Requirements and the Vendor's Proposal each of which is incorporated herein by reference.

2. Warranty. The Vendor further agrees to provide all of the Equipment required by this Contract free from defects in material or workmanship and shall warrant against such defects for a periods stated in the Vendor's Bid Proposal starting from the date of acceptance by the City, and shall transfer to the City any other applicable manufacturers' warranties. The City shall have 60 days from delivery of the Equipment to determine whether to accept it.

3. Term. This Contract shall remain in effect until delivery and acceptance, provided, however, that terms such as the warranty and conflict provisions shall survive the termination of the Contract. It may be renewed for an additional period upon the mutual agreement of the parties.

4. Purchase Price. The City will pay the Vendor, and the Vendor agrees to accept as complete payment for the Equipment, the sum of \$178,780.00. The City shall have the right to reject all or any Equipment provided under this Contract which does not meet the required specifications. In the event of any such rejection, the Vendor agrees to promptly remedy any and all deficiencies. No payment shall be due for any rejected Equipment until such deficiencies have been corrected to the City's satisfaction at the Vendor's sole cost and expense.

5. Delivery and Payment. Vendor shall deliver the Equipment on or before June 1, 2016. Payment shall be made by the City to the Vendor on the basis of an invoice following delivery and acceptance of the Equipment. If the Equipment is not delivered on or before June 1, 2016, the City will deduct from the purchase price \$100 for each day after June 1, 2016 until the Equipment is delivered by the Vendor and accepted by the City. Risk of loss shall

remain with the Vendor until delivery and acceptance by the City.

6. Conflict of Interest. This Contract is subject to the provisions of ARIZ. REV. STAT. § 38-511. The City may cancel this Contract without penalty or further obligations by the City or any of its departments or agencies if any person significantly involved in initiating, negotiating, securing, drafting or creating this Contract on behalf of the City or any of its departments or agencies is, at any time while the Contract or any extension of the Contract is in effect, an employee of any other party to the Contract in any capacity or a consultant to any other party of the Contract with respect to the subject matter of the Contract.

7. Gratuities. The City may, by written notice to the Vendor, cancel this Contract if it is found by the City that gratuities, in the form of economic opportunity, future employment, entertainment, gifts or otherwise, were offered or given by the Vendor or any agent or representative of the Vendor to any officer, agent or employee of the City for the purpose of securing this Contract. In the event this Contract is cancelled by the City pursuant to this provision, the City shall be entitled, in addition to any other rights and remedies, to recover or withhold from the Vendor an amount equal to 150% of the gratuity.

8. Contract Subject to Appropriation. The provisions of this Contract for payment of funds by the City shall be effective when funds are appropriated for purposes of this Contract and are actually available for payment. The City shall be the sole judge and authority in determining the availability of funds under this Contract and the City shall keep the Vendor fully informed as to the availability of funds for the Contract. The obligation of the City to make any payment pursuant to this Contract is a current expense of the City, payable exclusively from such annual appropriations, and is not a general obligation or indebtedness of the City. If the City Council fails to appropriate money sufficient to pay the amounts as set forth in this Contract during any immediately succeeding fiscal year, this Contract shall terminate at the end of then-current fiscal year and the City and the Vendor shall be relieved of any subsequent obligation under this Contract.

9. Termination.

9.1 For City's Convenience. This Contract is for the convenience of the City and, as such, may be terminated without cause after receipt by Vendor of written notice by the City.

9.2 For Cause. This Contract may be terminated by either party upon 30 days' written notice should the other party fail to substantially perform in accordance with this Contract's terms, through no fault of the party initiating the termination.

10. Amendment. This Contract may be modified only by a written amendment signed by persons duly authorized to enter into contracts on behalf of the City and the Vendor.

11. Provisions Required by Law. Each and every provision of law and any clause required by law to be in the Contract will be read and enforced as though it were included herein and, if through mistake or otherwise any such provision is not inserted, or is not correctly inserted, then upon the application of either party, the Contract will promptly be physically amended to make such insertion or correction.

12. Entire Contract; Interpretation; Parol Evidence. This Contract represents the entire agreement of the parties with respect to its subject matter, and all previous agreements, whether oral or written, entered into prior to this Contract are hereby revoked and superseded by this Contract. No representations, warranties, inducements or oral agreements have been made by any of the parties except as expressly set forth herein, or in any other contemporaneous written agreement executed for the purposes of carrying out the provisions of this Contract. This Contract shall be construed and interpreted according to its plain meaning, and no presumption shall be deemed to apply in favor of, or against the party drafting the Contract. The parties acknowledge and agree that each has had the opportunity to seek and utilize legal counsel in the drafting of, review of, and entry into this Contract.

13. Assignment. No right or interest in this Contract shall be assigned by Vendor without prior, written permission of the City signed by the City Manager and no delegation of any duty of Vendor shall be made without prior, written permission of the City signed by the City Manager. Any attempted assignment or delegation by Vendor in violation of this provision shall be a breach of this Contract by Vendor.

14. Subcontracts. No subcontract shall be entered into by the Vendor with any other party to furnish any of the material or services specified herein without the prior written approval of the City. The Vendor is responsible for performance under this Contract whether or not subcontractors are used.

15. Rights and Remedies. No provision in this Contract shall be construed, expressly or by implication, as waiver by the City of any existing or future right and/or remedy available by law in the event of any claim of default or breach of this Contract. The failure of the City to insist upon the strict performance of any term or condition of this Contract or to exercise or delay the exercise of any right or remedy provided in this Contract, or by law, or the City's acceptance of and payment for services, shall not release the Vendor from any responsibilities or obligations imposed by this Contract or by law, and shall not be deemed a waiver of any right of the City to insist upon the strict performance of this Contract.

16. Attorneys' Fees. In the event either party brings any action for any relief, declaratory or otherwise, arising out of this Contract or on account of any breach or default hereof, the prevailing party shall be entitled to receive from the other party reasonable attorneys' fees and reasonable costs and expenses, determined by the court sitting without a jury, which shall be deemed to have accrued on the commencement of such action and shall be enforced whether or not such action is prosecuted through judgment.

17. Liens. All materials or services shall be free of all liens and, if the City requests, a formal release of all liens shall be delivered to the City.

18. Offset.

18.1 Offset for Damages. In addition to all other remedies at law or equity, the City may offset from any money due to the Vendor any amounts Vendor owes to the City for damages resulting from breach or deficiencies in performance or breach of any obligation under this Contract.

18.2 Offset for Delinquent Fees or Taxes. The City may offset from any money due to the Vendor any amounts Vendor owes to the City for delinquent fees, transaction privilege taxes and property taxes, including any interest or penalties.

19. Notices and Requests. Any notice or other communication required or permitted to be given under this Contract shall be in writing and shall be deemed to have been duly given if (a) delivered to the party at the address set forth below, (b) deposited in the U.S. Mail, registered or certified, return receipt requested, to the address set forth below, (c) given to a recognized and reputable overnight delivery service, to the address set forth below or (d) delivered by facsimile transmission to the number set forth below:

If to the City: City of Bisbee
 118 Arizona Street
 Bisbee, Arizona 85603
 Facsimile: (520) 432-6069
 Attn: _____

With copy to: Britt Hanson
 City Attorney
 118 Arizona Street
 Bisbee, Arizona 85603
 Facsimile: (520) 432-8778

If to Vendor: Western States Fire Equipment
 9899 W. Roosevelt Street
 Tolleson, AZ 85353
 Facsimile: 623-907-6403
 Attn: Chad Horne

or at such other address, and to the attention of such other person or officer, as any party may designate in writing by notice duly given pursuant to this subsection. Notices shall be deemed received (a) when delivered to the party, (b) three business days after being placed in the U.S. Mail, properly addressed, with sufficient postage, (c) the following business day after being given to a recognized overnight delivery service, with the person giving the notice paying all required charges and instructing the delivery service to deliver on the following business day, or (d) when received by facsimile transmission during the normal business hours of the recipient. If a copy of a notice is also given to a party's counsel or other recipient, the provisions above governing the date on which a notice is deemed to have been received by a party shall mean and refer to the date on which the party, and not its counsel or other recipient to which a copy of the notice may be sent, is deemed to have received the notice.

20. E-verify Requirements. To the extent applicable under ARIZ. REV. STAT. § 41-4401, the Vendor and its subcontractors warrant compliance with all federal immigration laws and regulations that relate to their employees and compliance with the E-verify requirements

under ARIZ. REV. STAT. § 23-214(A). Vendor's or its subcontractor's failure to comply with such warranty shall be deemed a material breach of this Contract and may result in the termination of this Contract by the City.

21. Conflicting Terms. In the event of any inconsistency, conflict or ambiguity among the Contract, the Specifications, Scope of Work or Requirements and the Vendor's Proposal, the documents shall govern in the order listed herein.

IN WITNESS WHEREOF, the parties hereto have executed this instrument as of the date and year first set forth above.

"City"

CITY OF BISBEE, an Arizona
municipal corporation

Ron Oertle, Mayor

ATTEST:

Ashlee Coronado, City Clerk

APPROVED AS TO FORM:

Britt Hanson, City Attorney

"Vendor"

a(n) _____

By: _____

Name: _____

Title: _____

**NOTICE OF SOLICITATION
UNIFORM INSTRUCTIONS FOR PROPOSALS
CITY OF BISBEE**

FIRE TRUCK/ PUMPER

1. Introduction

The City of Bisbee is seeking sealed bids and proposals ("Proposals") in the manner specified herein from qualified vendors ("Vendor") capable of providing the following goods and/or services:

The City of Bisbee is accepting sealed bids and proposals for a Fire Truck/Pumper

2. SCHEDULE OF EVENTS

Submittal Due Date: December 15, 2015 at 4:00 P.M.
(Arizona, MST)

Submittal Location: City Clerk, City of Bisbee
118 Arizona Street
Bisbee, AZ 85603

Inquires may be directed to: Marc Burneleit
Fire Chief
192 Highway 92
Bisbee, AZ 85603
(520) 432-4110

3. Nature of the Purchase

The specifications and descriptions of the work and/or materials required are described in the attached "Specifications, Scope of Work or Requirements" that accompanies this Notice.

4. Preparation of Proposal

4.1 It is the responsibility of the Vendor to examine the entirety of this Notice of Solicitation and to seek clarification of any requirement that may not be clear. This Notice of Solicitation includes the City of Bisbee's standard Purchase Contract, which the successful bidder will be required to execute.

4.2 The City will not reimburse any costs incurred in developing, presenting or providing the Proposal. All materials and documents submitted in response become the property of the City and will not be returned.

4.3 All Proposals submitted to the City become a public record. If the Vendor believes that any information included in a Proposal should remain confidential, the Vendor must specifically identify that information and its reasons. In the event of any public request for this

information, the City will use its best reasonable efforts to provide the Vendor with notice of this request and an opportunity to obtain a court order, at the Vendor's sole expense, protecting this information from release prior to making it available.

4.4 The specifications included in this Notice of Solicitation are the minimum level required. All Proposals submitted must be for products or services that meet or exceed the minimum level of all such specifications.

4.5 If brand names or specific products are identified in the specifications, the Vendor may propose substantially equivalent alternatives. For any such Proposal, the Vendor must submit technical literature or detailed production information sufficient to allow the City to evaluate the nature of the proposed product.

4.6 Prices shall be submitted on a per unit basis, by line item, when applicable. The prices offered should not include applicable state and local taxes. The City will reimburse the Vendor for applicable transaction or sales taxes, provided that they are separately identified in any invoice. The Vendor will be responsible for the payment of all applicable taxes.

4.7 Any exceptions that are included with the Proposal shall be submitted in a clearly identified separate statement by which the Vendor specifically identifies the precise terms to which any exception is made and describes any alternative offer, if applicable. Any exception that is not clearly identified will be without force and effect. An attached preprinted form of contract or the Vendor's standard terms will not be considered to be a specific statement of exception.

5. Submission of the Proposal

5.1 **Two copies** of the Sealed Proposals must be in the actual possession of the City Clerk on or prior to the exact time and date indicated in the Schedule of Events. Late proposals will not be considered.

5.2 Sealed Proposals must be submitted in a sealed envelope or container with the following information clearly indicated on the outside:

- a. Name of the Solicitation, as indicated by the City.
- b. Name and address of the Vendor

5.3 Proposals shall be submitted in writing, by a paper document that is printed, typed or in ink. Proposals submitted directly to the City by electronic means, by facsimile, electronic mail, or otherwise, shall not be accepted. Any substitute for any document forms provided with this Notice of Solicitation must be legible and must contain the same information requested by any such form.

5.4 Proposals may be withdrawn upon the submission of written, signed request submitted by the Vendor prior to the due date and time. Proposals may not be amended or withdrawn after the due date and time.

6. Award of the Contract

6.1 The City reserves the right to waive any immaterial defect or informality in a Proposal; to reject any or all Proposals or portions thereof; to reissue this Notice of Solicitation; and to accept a Proposal on a partial basis, if in the best interests of the City.

6.2 Unless otherwise stated, the Contract will be awarded to the lowest responsive, responsible bidder who has demonstrated the ability to perform as required. Factors that will be considered in making this award include technical capability of the Vendor, performance history, demonstrated availability of the necessary people and equipment, price and timeliness of the performance.

7. Certification

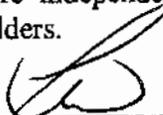
7.1 By signing and submitting a Proposal, the Vendor certifies that the Proposal did not involve any collusion or other anti-competitive practice; that the Vendor will not discriminate against any employee, applicant, or customer in violation of applicable state and federal law; and that the Vendor has not given, offered to give and will not give any economic opportunity, future employment, gift, loan, gratuity, trip, favor or discount to any City employee or official in connection with the Proposal.

7.2 The Vendor further certifies that the individual signing the Proposal has the authority to make a binding legal commitment on behalf of the Vendor to perform and deliver everything that is required in connection with the Proposal. Unless otherwise stated herein, the Proposal shall be effective for a period of thirty (30) days.

PROPOSAL

TO THE CITY OF BISBEE:

The undersigned hereby offers the following Proposal and agrees to furnish the materials and/ or services requested in compliance with all of the terms, conditions, specifications, and other descriptions of the work associated with this Notice of Solicitation. The Vendor certifies that he or she has read, understands and will fully and faithfully comply with the Notice of Solicitation, its attachments and any referenced documents. The Vendor also certifies that the prices offered were independently developed without consultation with any of the other bids or potential bidders.



Authorized Signature

12/9/15

Date

CHRIS HORNE / SALES ENGINEER

Printed Name and Title

Company Name WESTERN STATES FIRE EQUIPMENT

Address 6899 W ROOSEVELT ST.

City, State and Zip Code TOLLESON, AZ 85353

Telephone Number(s) 602-705-5101

Company's Fax Number 623-907-6403

Email Address CHORNE@WSFIREEQUP.COM

[ATTACH PROPOSAL TO THIS PAGE]

**ACCEPTANCE OF PROPOSAL
NOTICE OF AWARD**

The Proposal is hereby accepted by the City of Bisbee. This document shall also constitute notice of award of the Contract to the Vendor.

The Vendor is bound to provide the materials and/or services identified in the Proposal, subject to all terms, conditions, specifications, amendments, and other requirements set forth in this Notice of Solicitation and the Contract.

The Vendor shall not commence any billable work or provide any materials or services under this document until the Vendor and the City execute the Contract and the Vendor receives a formal notice to proceed from the City of Bisbee.

City of Bisbee

By _____

Date: _____

Its: _____

SPECIFICATIONS, SCOPE OF WORK OR REQUIREMENTS

See following page.

The City of Bisbee is accepting bids for a 1250 GPM 750 gallon tank fire truck/pumper. This truck can be either a new or a demo model.

The City of Bisbee reserves the right to reject any or all bids and to accept any bid presented which meets or exceeds these specifications and which the City deems to be in the best interest of the Bisbee Fire Department.

The Fire Truck Pumper shall not exceed a maximum length of 24 feet. * PLEASE SEE EXCEPTION LETTER

The Fire Truck Pumper shall include the following:

- 1. Roll Up Compartment Doors**
- 2. Monitor/Deck Gun**
- 3. 2- 1 ¼ Inch Cross Lays**

Add alternates:

- 1. 12 Volt Scene Lighting**
- 2. Stortz Intake Valves**
- 3. Paint the entire unit red to match existing color, add a 4" blue reflective hettline stripe and a ¾" white reflective pinstripe.**
- 4. Bisbee Fire Department identification lettering**

Any bid must warrant the Fire Truck Pumper. The Fire Truck Pumper must be delivered on or before June 1, 2016. Failure to deliver by that date shall result in a penalty of \$100/day, to be deducted from the purchase price.



Bid Price and Delivery Schedule For
******* City of Bisbee Fire Department *******

Rosenbauer South Dakota LLC is pleased to provide this bid proposal. The proposed apparatus has been tailored around the requirements of the fire service industry and we are confident that our proposal will meet and exceed the needs of the department. The proposed apparatus will be constructed utilizing only the highest quality materials and workmanship available in the industry. The apparatus will provide the upmost firefighter safety and efficiency on the fire ground along with extended life and lower maintenance cost throughout the life of the vehicle.

**One (1) Rosenbauer Top-Mount Pumper job #17037: \$178,780.00 plus tax
On a Freightliner M2-106 2-door chassis**

**** Please note the unit proposed is a “stock” unit and subject to prior sale**

***** Price includes a final inspection trip to the factory for one department representative**

The specifications herein contained shall form a part of the final contract, and are subject to changes desired by the purchaser, provided such alterations are interlined prior to the acceptance by the company of the order to purchase, and are provided such alterations do not materially affect the cost of the construction of the apparatus.

The proposal for fire apparatus conforms with all Federal Department of Transportation (DOT) rules and regulations in effect at the time of bid, and with all National Fire Protection Association (NFPA) guidelines for automotive fire apparatus as published at the time of bid, except as modified by customer specifications. Any increased costs incurred by the first party because of future changes in or additions to said DOT or NFPA standards will be passed along to the customers as an addition to the price set forth above.

Contract Terms

Delivery:

The proposed stock unit is due to be completed March 2016. If an award is made quickly there is an opportunity to make some changes to the unit if any are desired/needed.

Price Terms:

This offer shall remain valid for thirty, (30) calendar days from the quotation submittal date of December 15, 2105

Options:

Add (1) pair Focus FCA-D15, 150-watt pull-up scene lights = \$1,800.00

Add (2) Akron Black Max 7980 PIV intake valves = \$3,600.00

Add 1" pinstripes to 4" stripe = \$209.00 (4" stripe already included in price)

Add (75) letters for department verbiage = \$863.00

If the department chooses they have the option to drive the unit back themselves. A \$2,500.00 credit would be applied to the final sell price of the unit. This option would require that the unit be paid in full before leaving the plant and insured by the department.

Payment:

Contract payment of one-hundred percent (100%) of the purchase price shall be paid upon delivery and acceptance of the completed unit.

I want to thank the City of Bisbee for the opportunity to serve the needs of the department.

Sincerely

Chad Horne

Chad Horne

Rosenbauer America

(602) 705-5101



01-06-0500

CENTER OF GRAVITY

The apparatus, prior to acceptance, will be required to meet the vehicle stability of the applicable NFPA Automotive Fire Apparatus Standard.

A calculated center of gravity shall be provided. The calculated or measured center of gravity (CG) shall be no higher than 80-percent of the rear axle track width.

01-16-0150

BUMPER TO BUMPER WARRANTY

We warrant each new motorized fire apparatus manufactured by ROSENBAUER AMERICA, LLC for a period of ONE YEAR from the date of delivery, except for chassis and other components noted herein.

Under this warranty we agree to furnish any parts to replace those that have failed due to defective material or workmanship where there is no indication of abuse, neglect, unusual or other than normal service providing that such parts are, at the option of ROSENBAUER AMERICA, LLC, made available for our inspection at our request, returned to our factory or other location designated by us with transportation prepaid within thirty days after the date of failure or within one year from the date of delivery of the apparatus to the original purchaser, whichever occurs first, and inspection indicates the failure was attributed to defective material or workmanship.

The warranty on the chassis and chassis supplied components, storage batteries, generators, electrical lamps and other devices subject to deterioration is limited to the warranty of the manufacturer thereof and adjustments for the same are to be made directly with the manufacturer by the customer.

This warranty will not apply to any fire apparatus that has been repaired or altered outside our factory in any way, which in our opinion might affect its stability or reliability.

This warranty shall not apply to those items that are usually considered normal maintenance and upkeep services: including, but not limited to, normal lubrication or proper adjustment of minor auxiliary pumps or reels.

This warranty is in lieu of all other warranties, expressed or implied, and all other obligations or liabilities on our part. We neither assume nor authorize any person to assume for us any liability in connection with the sales of our apparatus unless made in writing by ROSENBAUER AMERICA, LLC.



01-19-0250

ALUMINUM BODY WARRANTY - FIVE YEAR

Rosenbauer America, LLC warrants to the original purchaser only, that the all aluminum body, fabricated by Rosenbauer America, LLC, under normal use and with reasonable maintenance, be structurally sound and will remain free from corrosion perforation for a period of FIVE (5) years.

This warranty does not apply to the following items that are covered by a separate warranty: paint finish, hardware, moldings, and other accessories attached to this body. In addition, this warranty does not apply to any part or accessory manufactured by others and attached to this body.

ROSENBAUER AMERICA, LLC MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO THE ALUMINUM BODY AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND HEREBY DISCLAIMED.

Rosenbauer America, LLC will replace without charge, repair or make a fair allowance for any defect in material or workmanship demonstrated to its satisfaction to have existed at the time of delivery or not due to misuse, negligence, or accident. If Rosenbauer America, LLC elects to repair this body, the extent of such repair shall be determined solely by Rosenbauer America, LLC, and shall be performed solely at the Rosenbauer America, LLC factory, or at an approved facility. The expense of any transportation to or from such repair facility shall be borne by the purchaser and is not an item covered under this warranty.

Rosenbauer America, LLC will not be liable for damages and under no circumstances will its liability exceed the price for a defective body. The remedies set forth herein are exclusive and in substitution for all other remedies to which the purchaser would otherwise be entitled.

Rosenbauer America, LLC will be given a reasonable opportunity to investigate all claims. The purchaser must commence any action arising out of, based upon or relating to agreement or the breach hereof, within twelve months from the date the cause of the action occurred.

Note: Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.

01-20-0250

PAINT WARRANTY FIVE YEAR

The PPG paint performance guarantee will cover the areas of the vehicle finished with the specified product for a period of FIVE (5) years beginning the day the vehicle is delivered to the purchaser.



The full apparatus body, manufactured and painted by Rosenbauer America, LLC, shall be covered for the following paint failures as outlined on the guarantee certificate:

- Peeling or delaminating of the topcoat and/or other layers of paint.
- Cracking or checking.
- Loss of gloss caused by cracking, checking, or hazing.
- Any paint failure caused by defective PPG Fleet Finishes, which are covered by this guarantee.

All guarantee exclusions, limitations, and methods of claims are covered in the full certificate provided to the original purchaser.

Note: Surety bond, if required, will cover standard one year warranty period only and will not cover any extended warranties allowed by seller or other component manufacturers.

09-01-0210

FREIGHTLINER M2 CONVENTIONAL CHASSIS

A Freightliner chassis shall be supplied per attached specifications.

09-01-4200

Chassis Cab Step Trim Pkg 2-Dr Comm Chassis

09-01-4202

CAB STEPS

The existing cab steps on the left side of the commercial 2 door chassis shall be covered with slip resistant aluminum tread plate for compliance to applicable NFPA standards.

09-01-4204

CAB STEPS

The existing cab steps on the right side of the commercial 2 door chassis shall be covered with slip resistant aluminum tread plate for compliance to applicable NFPA standards.

09-01-6100

HORIZONTAL CHASSIS EXHAUST

The chassis exhaust system shall be extended to the front of the right rear wheel.

10-02-1100 10

FLUID DATA PLAQUE

One (1) fluid data plaque containing required information shall be provided based on the applicable components for this apparatus, compliant with NFPA Standards:

- Engine oil
- Engine coolant
- Chassis transmission fluid



- Drive axle lubricant
- Power steering fluid
- Pump transmission lubrication fluid
- Other NFPA applicable fluid levels or data as required

Location shall be in the driver's compartment or on driver's door.

10-02-1200 10

DATA & WARNING LABELS

HEIGHT LENGTH & WEIGHT

A highly visible label indicating the overall height, length, and weight of the vehicle shall be installed in the cab dash area.

CAB SEATING POSITION LIMITS

The label shall also include the seating positions for firefighters. A weight allowance of 250 pounds for each shall be factored into the gross vehicle weight rating of the chassis.

10-02-1300 10

NO RIDE LABEL

One (1) "NO RIDERS" label shall be applied on the vehicle at the rear step area or other applicable areas. The label shall warn personnel that riding in or on these areas, while the vehicle is in motion is prohibited.

10-02-2100 10

CAB SEATING POSITION LIMITS

One (1) label shall be installed in the cab to indicate seating positions for firefighters. A weight allowance of 250 pounds for each shall be factored into the gross vehicle weight rating of the chassis.

10-02-2500 10

HELMET WARNING TAG

One (1) label shall be installed in the cab, visible from each seating position. The label shall read "CAUTION: DO NOT WEAR HELMET WHILE SEATED." Helmets must be properly stowed while the vehicle is in motion according to the current edition of NFPA 1901.

10-03-6010

REAR TOWING PROVISIONS

There shall be two tow eyes furnished under the rear of the body and attached directly to each chassis frame rail. There shall be a reinforcement spreader bar connecting the two tow eyes. Tow eyes are to be constructed of 3/8" plate steel with a 4" I.D. hole, large enough for passing through a tow chain end hook.



80-43-2400

The tow plates shall be painted black.

10-06-1600 10

TIRE PRESSURE INDICATOR

There shall be a tire pressure indicator at each tire's valve stem on the vehicle that shall indicate if there is insufficient pressure in the specific tire.

19-03-1000

DARLEY PSM SINGLE STAGE PUMP

A Darley model PSM single stage split-drive shaft driven fire pump shall be provided and installed.

The pump shall be midship mounted and designed to operate through an integral transmission, including a means for power selectivity to the driving axle or to the pump. The pump shall be driven by a driveline from the chassis transmission. The engine, transmission and driveline components shall provide sufficient horsepower and RPM to enable the pump to meet and exceed its rated performance.

The pump shall contain a cored heating jacket feature that, if selected, can be connected into the vehicle antifreeze system to protect the pump from freezing in cold climates, and to help reject engine heat from engine coolant, providing longer life for the engine.

Pump Shaft

The pump shaft shall be precision ground stainless steel with long wearing Chromium Oxide hard coating under the packing glands with a hardness level of Rockwell C72. The shaft shall be splined to receive broached impeller hubs, for greater resistance to wear, torsion vibration, and torque imposed by engine, as well as ease of maintenance and repair.

The bearings provided shall be heavy duty, deep groove, radial type ball bearings. Sleeve bearings on any portion of the pump or transmission shall be prohibited due to wear, deflection, and alignment concerns. The bearings shall be protected at all openings from road dirt and water splash with oil seals and water slingers.

Impeller

The impeller shall be a high strength bronze alloy of mixed flow design, splined to the pump shaft for precision fit, durability, and ease of maintenance. Impeller shall be vacuum cast designed for maximum lift and highest capacity. The seal rings shall be renewable, double labyrinth, wrap around bronze type.



Impeller shaft oil seals shall be constructed to be free from steel components except for the internal lip spring. The impeller shaft oil seals shall carry a lifetime warranty against damage from corrosion from water and other fire-fighting fluids.

Pump Transmission

The transmission case shall be heavy duty cast iron. A magnetic drain plug shall be provided. Transmission case shall include a dip stick for checking oil level. Transmission case interior shall be powder coated to reduce oil contamination. Transmission case shall be equipped with a removable plate for quick inspection of gears, shafts, and bearings inside the transmission.

The pump drive shaft shall be precision ground, heat treated alloy steel, with a minimum 2-1/2" x 10" spline. The net through-torque rating of the gearbox shall exceed 19,000 foot pounds. Gears shall be helical design, and shall be precision ground for quiet operation and extended life. The gears shall be manufactured from alloy steel and carburized for surface hardness and strength.

The pump clutch gear shall be a heat treated alloy-steel splined spur gear to engage either the pump drive gear or the truck drive shaft gear, and shall have bullet-nosed teeth to reduce the possibility of a butt-tooth condition. The pump clutch gear shall be separate from the main drive gear in order to maintain the greatest precision for driving the pump gear train. The pump transmission shall require no further lubrication beyond that provided by the intrinsic action of the gears, to reduce the likelihood of failure due to loss of auxiliary lubrication.

Driveline Installation

The chassis drivelines shall be sized for intended application and torque requirements. The installation shall comply with driveline manufacturer's guidelines.

Manuals

Two (2) manuals covering the fire pump transmission and fire pump shall be provided with the apparatus.

01-17-0150

FIRE PUMP WARRANTY

A six (6) year warranty for the Darley fire pump shall be provided.



19-03-1050

1250 GPM FIRE PUMP SPECIFICATIONS

The centrifugal type fire pump shall be a Darley model PSM midship mounted with a rated capacity of 1250 GPM. The pump shall meet NFPA 1901 requirements.

The pump shall be certified to meet the following deliveries:

- 250 GPM @ 150 PSI
- 1250 GPM @ 165 PSI
- 875 GPM @ 200 PSI
- 625 GPM @ 250 PSI

22-03-1650

LEFT SIDE -- 6" UNGATED INTAKE

One (1) 6" un gated suction intake shall be installed on the left side pump panel to supply the fire pump from an external water supply. The threads shall be 6" NST. The intake shall be provided with a removable screen.

22-41-6000

One (1) 6" chrome plated cap shall be provided. The threads shall be NST and the cap shall be equipped long handles.

22-03-2650

RIGHT SIDE -- 6" UNGATED INTAKE

One (1) 6" un gated suction intake shall be installed on the right side pump panel to supply the fire pump from an external water supply. The intake shall be provided with a removable screen.

22-41-6000

One (1) 6" chrome plated cap shall be provided. The threads shall be NST and the cap shall be equipped long handles.

27-10-6000

PRESSURE GOVERNOR AND ENGINE-PUMP MONITORING

One (1) Fire Research InControl series TGA300 pressure governor and monitoring display kit shall be installed. The kit shall include a control module, intake pressure sensor, discharge pressure sensor, and cables. The control module case shall be waterproof and have dimensions not to exceed 5 1/2" high by 10 1/2" wide by 2" deep. Inputs for monitored information shall be from a J1939 databus or independent sensors. Outputs for engine control shall be on the J1939 databus or engine specific wiring.

The following continuous displays shall be provided:

- Pump discharge; shown with four daylight bright LED digits more than 1/2" high
- Pump Intake; shown with four daylight bright LED digits more than 1/2" high
- Pressure / RPM setting; shown on a dot matrix message display
- Pressure and RPM operating mode LEDs
- Throttle ready LED

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- Engine RPM; shown with four daylight bright LED digits more than 1/2" high
- Check engine and stop engine warning LEDs
- Oil pressure; shown on a dual color (green/red) LED bar graph display
- Engine coolant temperature; shown on a dual color (green/red) LED bar graph display
- Transmission Temperature; shown on a dual color (green/red) LED bar graph display
- Battery voltage; shown on a dual color (green/red) LED bar graph display.

The dot-matrix message display shall show diagnostic and warning messages as they occur. It shall show monitored apparatus information, stored data, and program options when selected by the operator. All LED intensity shall be automatically adjusted for day and night time operation.

The program shall store the accumulated operating hours for the pump and engine to be displayed with the push of a button. It shall monitor inputs and support audible and visual warning alarms for the following conditions:

- High Battery Voltage
- Low Battery Voltage (Engine Off)
- Low Battery Voltage (Engine Running)
- High Transmission Temperature
- Low Engine Oil Pressure
- High Engine Coolant Temperature
- Out of Water (visual alarm only)
- No Engine Response (visual alarm only).

The program features shall be accessed via push buttons located on the front of the control panel. There shall be an USB port located at the rear of the control module to upload future firmware enhancements.

Inputs to the control panel from the pump discharge and intake pressure sensors shall be electrical. The discharge pressure display shall show pressures from 0 to 600 psi. The intake pressure display shall show pressures from -30 in. Hg to 600 psi.

The governor shall operate in two control modes, pressure and RPM. No discharge pressure or engine RPM variation shall occur when switching between modes. A throttle ready LED shall light when the interlock signal is recognized. The governor shall start in pressure mode and set the engine RPM to idle. In pressure mode the governor shall automatically regulate the discharge pressure at the level set by the operator. In RPM mode the governor shall maintain the engine RPM at the level set by the operator except in the event of a discharge pressure increase. The governor shall limit a discharge pressure increase in RPM mode to a maximum of 30 psi. Other safety features shall include recognition of no water conditions with an automatic programmed response and a push button to return the engine to idle.



The pressure governor, monitoring and master pressure display shall be programmed to interface with a specific engine.

20-05-2100

ADJUSTABLE INJECTION STYLE PACKING SPECIFICATION

The stuffing box is to be a single-plunger injection style, utilizing a plastallic, graphite composite packing that equalizes pressure around the shaft.

Packing renewal is performed by removing the plunger and inserting a pellet form of packing as needed.

Replacement of packing, or adjustment, should be able to be made within 15 minutes. This type of packing gland is desired in order to minimize friction, heat generation and apparatus downtime. Shaft seals or rope/braid-type packing gland design do not meet this requirement.

20-05-3150

ELECTRIC/PNEUMATIC PUMP SHIFT SPECIFICATIONS

An air powered pump shift shall be installed in the cab driver's area where not subject to accidental engagement. The pump shift shall be air operated and shall incorporate an air cylinder with an electric actuated switch to shift from road to pump and back. The apparatus pump shift shall be engaged only when apparatus is in a stationary position and the parking brake is engaged.

The following indicator lights shall be included with pump shift.

1. A green indicator light, labeled "PUMP ENGAGED" shall indicate pump shift has successfully been completed.
2. A green indicator light, labeled "OK TO PUMP" shall indicate the chassis transmission is in pump gear and parking brake is engaged.
3. Pump shift and interlocks shall comply with applicable sections of NFPA standards.
4. The pump shift shall have an instruction label and nameplate to indicate function and proper operation.

20-05-5150

ELECTRIC PRIMER SPECIFICATIONS

A 12 volt electrically driven positive displacement fire pump primer system shall be installed. The priming pump shall be constructed of heat treated aluminum and hard coat anodized and shall not use oil in the operation. The system shall perform in compliance to applicable NFPA standards.



A single, push-pull control shall be located on the pump operator's panel with a "Pull to Prime - Push to Close" label.

20-30-5100

FIRE PUMP SPLIT SHAFT DRIVESHAFTS AND INSTALLATION

The mid-ship split shaft fire pump shall be installed and shall include installation of the fire pump, modification and/or fabrication of new drivelines and all pump-mounting brackets. The drive shaft(s) shall be spin balanced prior to final installation.

20-31-6100

FIRE PUMP COOLING

The fire pump shall be equipped with 3/8" cooling line from the pump to the water tank. This re-circulation line shall be controlled by a pump panel control valve with nameplate label noting it as the "fire pump bypass cooler".

20-31-6200

CHASSIS ENGINE HEAT EXCHANGER COOLING SYSTEM

The apparatus shall be equipped with a heat exchanger for supplementary chassis engine cooling during fire pump operations. A manually opened valve, mounted at the operator's panel, shall direct water from the fire pump to the heat exchanger that is mounted in the engine radiator cooling hose. The system shall provide cooling water from the fire pump to circulate around the engine radiator coolant without mixing or coming in direct contact with the engine coolant. The complete installation shall be done by the fire apparatus manufacturer.

A nameplate label shall be installed on the pump panel noting "engine cooling system" with "on-off" opening directions noted.

20-31-1600

UNDERWRITERS LABORATORIES FIRE PUMP TEST

The pump shall undergo an Underwriters Laboratories Incorporated test per applicable sections of NFPA standards, prior to delivery of the completed apparatus.

The UL acceptance certificate shall be furnished with the apparatus on delivery.

20-31-1550

FIRE PUMP TEST LABEL

A fire pump performance and rating label shall be installed on the fire apparatus pump panel. The label shall denote levels of pump performance and testing completed at factory. These shall include GPM at net pump pressure, RPM at such level, and other pertinent data as required by applicable NFPA standards. In addition, the pressure control device, tank to pump flow tests, and other required testing shall be completed.

In addition, the entire pump, suction and discharge passages shall be hydrostatically tested to a pressure as required by applicable NFPA standards. The pump shall be fully tested at the pump



manufacturer's factory to the performance specifications as outlined by applicable NFPA standards. Pump shall be free from objectionable pulsation and vibration.

If applicable, the fire pump shall be tested and rated as follows:

- 100% of rated capacity at 150 pounds net pressure.
- 70% of rated capacity at 200 pounds net pressure.
- 50% of rated capacity at 250 pounds net pressure.
- 100% or rated capacity at 165 pounds net pressure.

21-00-0250

STAINLESS STEEL PUMP PLUMBING

01-17-1100

STAINLESS STEEL PLUMBING WARRANTY

Subject to the provisions, limitations and conditions set forth in this warranty, Rosenbauer America, LLC (hereby referred to as "seller"), hereby warrants to each original purchaser only that stainless steel plumbing components and ancillary brass fittings used in the construction of the water/foam plumbing system shall be warranted for a period of ten (10) years. This covers structural failures caused by defective design or workmanship, or perforation caused by corrosion, provided the apparatus is used in a normal and reasonable manner. This warranty is extended only to the original purchaser for a period of ten years from the date of the delivery and shall terminate upon the transfer of possession or ownership by original purchaser.

This warranty is conditioned upon normal use and reasonable maintenance of such plumbing; prompt written notice of all defects to seller or one of the seller's then authorized dealers in the area; no repair or additions there to except by seller or authorized by it; said defect not resulting from misuse, negligence, accident, remount, overloading beyond applicable weight rating by customer or third parties. If any such conditions are not complied with, this warranty shall become void and unenforceable.

Should repairs become necessary under the terms or the warranty, the extent of that repair shall be determined solely by the seller and shall be performed solely at Rosenbauer America, LLC or a repair facility designated by the seller. The expense of any transportation to or from such repair facility shall be that of the purchaser and is not an item covered by this warranty.

Seller reserves the unrestricted right at any time from time to time to make changes in the design of and/or improvements on its products without thereby imposing any obligation on itself to make corresponding changes or improvements in or on its products theretofore manufactured.

EXCLUSIONS AND LIMITATIONS: THIS MANUFACTURER'S WARRANTY IS PROVIDED IN PLACE OF ANY AND ALL OTHER REPRESENTATIONS OR IMPLIED WARRANTIES. NO PERSON IS AUTHORIZED TO MAKE ANY REPRESENTATIONS OR WARRANTY ON BEHALF OF ROSENBAUER AMERICA, LLC OR ANY OF ITS



DISTRIBUTORS OTHER THAN SET FORTH IN THIS MANUFACTURER'S WARRANTY. YOUR RIGHT TO SERVICE AND REPLACEMENT OF PARTS ON THE TERMS EXPRESSLY SET FORTH HERIN ARE YOUR EXCLUSIVE REMEDIES AND NEITHER THE MANUFACTURER NOR ANY OF ITS DISTRIBUTORS SHALL BE LIABLE FOR DAMAGES, WHETHER ORDINARY, INCIDENTAL OR CONSEQUENTIAL.

21-00-1100

PUMP PLUMBING SYSTEM

The fire pump plumbing system shall be of rigid or flexible piping with stainless steel fittings. Victaulic couplings shall be installed to permit flexing of the plumbing system and allow for quick removal of piping or valves for service. Flexible hose couplings shall be threaded stainless steel or Victaulic connections.

The fire pump and plumbing shall be hydrostatically tested in compliance to applicable sections of NFPA standards, with test results submit with the delivery documentation.

21-01-5650

STAINLESS STEEL INTAKE MANIFOLD

The suction manifold assembly shall be fabricated with Schedule #10 type 304 stainless steel. All threaded fittings shall be a minimum of Schedule 10 stainless steel. The suction manifold assembly shall have radiused sweep elbows to minimize water turbulence into the suction volute. The suction manifold shall be welded and pressure tested prior to installation. The stainless steel manifold assembly shall be attached to the pump intake volute with a heavy-duty, flexible Victaulic coupling.

The stainless steel manifold assembly shall have a ten (10) year warranty.

21-01-6650

STAINLESS STEEL DISCHARGE MANIFOLD

The discharge manifold assembly shall be fabricated with minimum of Schedule #10 Type 304 stainless steel. All threaded fittings shall be a minimum of Schedule #40 stainless steel. The discharge manifold assembly shall have radiused sweep elbows to minimize water turbulence. The manifold shall be welded and pressure tested prior to installation. The stainless steel manifold inlet shall be attached to the pump discharge and have additional brackets as required to support the discharge manifold, valves and related components.

The stainless steel manifold assembly shall have a ten (10) year warranty.

21-00-2050

PUMP ANODES

There shall be sacrificial, zinc anodes in the pump steamer ports which shall protect the pump and piping from electrolysis. These anodes shall also act as screens.

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21-01-0250

FIRE PUMP MASTER DRAIN

The fire pump plumbing system and fire pump shall be piped to a single push-pull type master pump drain assembly.

ADDITIONAL LOW POINT DRAINS

The plumbing system shall be equipped with additional low point manually operated drain valves to allow total draining of the fire pump plumbing system. These valves shall be accessible from the side of the vehicle and labeled.

21-01-7300

PLUMBING SYSTEM

The plumbing system shall be unpainted.

21-01-8100

HOSE THREADS

The hose threads shall be National Standard Thread (NST) on all base threads on the apparatus intakes and discharges.

22-52-0100

WATER TANK TO PUMP LINE

One (1) 3" water tank to fire pump line shall be provided with a full flow quarter turn ball valve, 4" piping, and with flex hose and stainless steel hose clamps. The tank to pump line shall be equipped with a check valve to prevent pressurization of the water tank.

The line shall be flow tested during the fire pump testing and shall meet applicable requirements of NFPA standards.

22-55-2360

The valve shall be equipped with one (1) manually operated, swing-type control at the top mount pump panel console. The control handle shall be equipped with quarter-turn locking feature. The valve shall be equipped with a color-coded name plate.

24-61-1860

The specified valve shall be a three-inch (3") valve with a stainless ball.

23-02-2300

FIRE PUMP TO WATER TANK FILL LINE

One (1) 2" fire pump to water tank refill and pump bypass cooler line shall be provided. The valve shall be a full flow quarter turn ball valve with 2" piping and flex hose to tank. The valve control handle shall have a nameplate located near the valve control.

24-51-1250

One (1) manually operated swing type valve, with control at the top mount pump panel console shall be installed on the specified discharge. The up and down movement control handle shall be

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equipped with quarter turn locking feature. The valve shall be equipped color-coded nameplate label.

24-61-1820

The specified valve shall be a two-inch (2") valve with a stainless ball.

22-09-1100

LEFT SIDE -- 2-1/2" GATED INTAKE

One (1) 2-1/2" gated suction intake shall be installed on the left side of the pump panel to supply the fire pump from an external water supply. The control valve shall be a quarter turn ball valve and shall have 2-1/2" NST female thread of chrome plated brass.

21-01-2502

An Innovative Controls 3/4" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift to open and push down to close.

22-41-1150

One (1) 2-1/2" chrome plated plug shall be provided. The threads shall be NST and the plug shall be equipped rocker lugs and chain or cable securement.

22-55-2150

The valve shall be equipped with one (1) manually operated swing type manual control located adjacent the intake. The valve shall be equipped a color-coded name plate.

23-06-2250

TWO (2) 1-1/2" CROSSLAY DISCHARGES

Two (2) pre-connect 1-3/4" hose crosslays shall be installed over pump enclosure, with quarter turn 2" diameter ball valves. The outlets shall be a 2" NPT female swivel x 1-1/2" male NST hose threads.

The crosslay hosebeds shall have smooth aluminum sides. The hosebed decking shall be constructed with slots integrated into the hosebed floor.

Each hosebed shall provide for a minimum capacity of 200 feet of 1-3/4" diameter double jacket hose with nozzle, for hose provided by the fire department.

21-01-2550

An Innovative Controls 3/4" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift, to open and push down, to close.

24-51-1250

Two (2) manually operated swing type valve, with control at the top mount pump panel console shall be installed on the specified discharge. The up and down movement control handle shall be

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equipped with quarter turn locking feature. The valve shall be equipped color-coded nameplate label.

24-61-1820

The specified valve shall be a two-inch (2") valve with a stainless ball.

27-02-1150

Two (2) 2-1/2" discharge pressure gauge (30"-0-400 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

23-08-3150

CROSSLAY HINGED COVER

The crosslay hosebed shall be equipped with a single aluminum diamond plate hinged cover. The cover shall have rubber bumpers, latching devices, and lift up handle on each end of the cover.

23-08-4150

ROLLERS FOR CROSSLAY HOSE BED

The crosslay hosebed shall be equipped stainless steel "U" shaped roller system, one on each end of the hosebed.

23-09-4200

LEFT SIDE PUMP PANEL -- 2-1/2" DISCHARGE

One (1) 2-1/2" discharge shall be installed on the left side pump panel area and shall be controlled by a quarter turn ball valve. The discharge shall have 2-1/2" NST male hose threads and a chrome plated elbow with rocker lugs with 2-1/2" NST swivel female x 2-1/2" NST male hose threads. A color coded nameplate label shall be provided adjacent the control handle.

21-01-2550

An Innovative Controls 3/4" cast bronze quarter-turu drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift, to open and push down, to close.

24-02-3200

One (1) chrome plated elbow with rocker lugs shall be provided with 2-1/2" NST swivel female x 2-1/2" NST male hose threads.

24-03-3400

One (1) 2-1/2" NST rocker lug chrome plated vented cap and cable or chain securement shall be provided.

24-51-1250

One (1) manually operated swing type valve, with control at the top mount pump panel console shall be installed on the specified discharge. The up and down movement control handle shall be equipped with quarter turn locking feature. The valve shall be equipped color-coded nameplate label.

24-61-1850

The specified valve shall be a two and one half-inch (2-1/2") valve with a stainless ball.

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27-02-1150

One (1) 2-1/2" discharge pressure gauge (30"-0-400 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

23-10-4200

RIGHT SIDE PUMP PANEL -- 2-1/2" DISCHARGE

One (1) 2-1/2" discharge shall be installed on the right side pump panel area and shall be controlled by a quarter turn ball valve. The outlet shall have 2-1/2" NH male hose threads. A chrome plated elbow with rocker lugs shall be provided with 2-1/2" NST swivel female x 2-1/2" NH male hose threads. A color coded nameplate label shall be provided adjacent the control handle.

21-01-2550

An Innovative Controls 3/4" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift, to open and push down, to close.

24-02-3200

One (1) chrome plated elbow with rocker lugs shall be provided with 2-1/2" NST swivel female x 2-1/2" NST male hose threads.

24-03-3400

One (1) 2-1/2" NST rocker lug chrome plated vented cap and cable or chain securement shall be provided.

24-51-1250

One (1) manually operated swing type valve, with control at the top mount pump panel console shall be installed on the specified discharge. The up and down movement control handle shall be equipped with quarter turn locking feature. The valve shall be equipped color-coded nameplate label.

24-61-1850

The specified valve shall be a two and one half-inch (2-1/2") valve with a stainless ball.

27-02-1150

One (1) 2-1/2" discharge pressure gauge (30"-0-400 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

23-10-5400

RIGHT SIDE PUMP PANEL -- 3" DISCHARGE

One (1) 3" discharge shall be installed on the right side pump panel area and shall be controlled by a quarter turn ball valve. The discharge shall have 3" NST male hose threads. A color coded nameplate label shall be provided adjacent the control handle.

21-01-2550

An Innovative Controls 3/4" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve

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complete with a recessed ID label provision. The handle shall lift, to open and push down, to close.

24-02-3400

One (1) chrome plated elbow with rocker lugs shall be provided with 3" NST swivel female x 3" NST male hose threads.

24-03-3500

One (1) 3" NST rocker lug chrome plated vented cap and cable or chain securement shall be provided.

24-53-0710

One (1) Akron valve with a manually operated swing type and control at the top mount pump panel console shall be provided on the specified discharge. The up and down movement control handle shall be equipped with quarter-turn locking feature. The discharge shall be equipped with a slow-close device. The valve shall be equipped color-coded name plate.

24-61-1860

The specified valve shall be a three-inch (3") valve with a stainless ball.

27-02-1150

One (1) 2-1/2" discharge pressure gauge (30"-0-400 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

23-13-3250

REAR RIGHT SIDE -- 2-1/2" DISCHARGE

One (1) 2-1/2" discharge shall be installed on the right side rear panel of the apparatus body and shall be controlled by a quarter turn ball valve on the pump panel. The discharge shall have 2-1/2" NPT x 2-1/2" NST male hose threads adapter with 30 degree slant. The outlet shall be equipped with an engraved nameplate label shall be installed adjacent the valve control handle.

21-01-2550

An Innovative Controls 3/4" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift, to open and push down, to close.

24-02-3200

One (1) chrome plated elbow with rocker lugs shall be provided with 2-1/2" NST swivel female x 2-1/2" NST male hose threads.

24-03-3400

One (1) 2-1/2" NST rocker lug chrome plated vented cap and cable or chain securement shall be provided.

24-51-1250

One (1) manually operated swing type valve, with control at the top mount pump panel console shall be installed on the specified discharge. The up and down movement control handle shall be equipped with quarter turn locking feature. The valve shall be equipped color-coded nameplate label.

24-61-1850

The specified valve shall be a two and one half-inch (2-1/2") valve with a stainless ball.

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27-02-1150

One (1) 2-1/2" discharge pressure gauge (30"-0-400 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

24-11-6200

3" MONITOR DISCHARGE

One (1) 3" discharge shall be piped to the area over the pump enclosure with 3" NPT male threads provided. The pipe shall be equipped with Victaulic couplings (if necessary) and shall be properly secured to prevent movement when a monitor or deck gun is attached. The quarter turn ball valve shall be controlled on pump panel.

A color coded nameplate label shall be provided adjacent the valve control handle.

21-01-2550

An Innovative Controls 3/4" cast bronze quarter-turn drain/bleeder valve shall be installed. The valve shall be complete with a chrome plated bronze ball, reinforced teflon seals, and blow-out proof stem rated to 600 PSI. A chrome plated zinc handle shall be provided on each drain valve complete with a recessed ID label provision. The handle shall lift, to open and push down, to close.

24-53-0710

One (1) Akron valve with a manually operated swing type and control at the top mount pump panel console shall be provided on the specified discharge. The up and down movement control handle shall be equipped with quarter-turn locking feature. The discharge shall be equipped with a slow-close device. The valve shall be equipped color-coded name plate.

24-61-1860

The specified valve shall be a three-inch (3") valve with a stainless ball.

27-02-1150

One (1) 2-1/2" discharge pressure gauge (30"-0-400 PSI) shall be provided. The face of the gauge shall be a WHITE dial with black letters. The gauges will be located on the pump instrument panel.

24-14-1000

PORTABLE MONITOR

One (1) Task Force Tips Crossfire model # XFC-12 portable lightweight monitor package consisting of monitor top and base shall be supplied.

PORTABLE DECK GUN MONITOR TOP

Task Force Tips Crossfire, model # XFT-NJ portable monitor shall be provided. This top only portion with quick release swivel joint shall be designed for use on truck mounted risers and TFT Safe-Tak or Stow-A-Way 800 series portable bases. The monitor shall include safety devices that include a locking button which locks the quick release lever when monitor is pressurized, and a 1/4 turn rotational lever lock that secures the horizontal rotation and provides a visual indication that the monitor rotation is locked.



The monitor shall have a 3-1/4" waterway for delivery of up to 1250 GPM with low friction loss. Vertical elevation shall be controlled through use of a handwheel controlled stainless steel worm gear which allows full travel to the safety stop point of 35 degrees above horizontal with seven rotations of the wheel. When positioned on a truck mounted riser the monitor shall be able to be used below the 35 degree stop point through release of the spring loaded safety pin.

An automatic drain to remove remaining water and avoid freezing shall be included. Integral stainless steel stream straightener and pressure gauge shall be included. The monitor shall be configured with a Crossfire inlet and 2-1/2" male NH outlet.

MONITOR STORAGE BRACKET

Task Force Tips model # XF-B storage bracket and mounting screws shall be supplied. The bracket shall be constructed from stainless steel include a quick release retention strap and be designed for horizontal or vertical installation. The bracket is designed for storage of the Task Force Tips Crossfire SAFE-TAK and STOWAWAY 800 series portable monitor base with or without monitor top attached.

24-14-1800

SAFE-TAK PORTABLE MONITOR BASE

Task Force Tips Safe-Tak 1250, model # XFH-2NJ portable monitor base shall be provided. The monitor shall include a Safe-Tak, spring loaded butterfly valve designed to rapidly reduce the water flow by 90 percent in the event that contact with the ground is lost. The device shall include an integral carrying handle, four folding stainless steel legs with replaceable tungsten carbide spikes and an anchoring strap (attached to a protective cap) designed to be stored inside the waterway. The butterfly valve shall have a reset handle located near the inlet to allow the water flow to be reestablished once the base is properly stabilized.

The base shall be constructed from hardcoat anodized aluminum and have a red powder coat interior and exterior finish. The inlet shall be configured with two (2) 2-1/2" female NH swivel rocker lug couplings with two-way clapper valve.

24-14-2020

MONITOR STORAGE BRACKET

Task Force Tips model # XF-B storage bracket and mounting screws shall be supplied. The bracket shall be constructed from stainless steel include a quick release retention strap and be designed for horizontal or vertical installation. The bracket is designed for storage of the Task Force Tips Crossfire SAFE-TAK and STOWAWAY 800 series portable monitor base with or without monitor top attached.



25-25-0200

WATER TANK - 1000 GALLON

The apparatus shall be equipped with a one-thousand (1000) gallon polypropylene water tank. The tank shall be equipped with a four-inch (4") overflow pipe.

25-44-1300

WATER TANK FILL TOWER

A fill tower measuring approximately 10" x 10" square shall be provided on the water tank up to and including 1500 gallons total capacity.

26-12-0000

PUMP ENCLOSURE - PUMP PANELS - OPTIONS

26-18-1000

TOP MOUNT PUMP ENCLOSURE

The top mount pump enclosure shall be removable and supported from the chassis frame rails. This enclosure will allow independent flexing of the pump enclosure from the body and allow for quick removal. The support structure shall be constructed of extruded aluminum tubing and angle. All pump intake discharge controls are to be mounted above the fire pump at a top mounted operator's control panel to provide around-the-truck visibility.

Access to the top mounted control panel shall be provided from both sides of the truck with a large full width walkway ahead of the control panel. The walkway and running boards shall be bolted in place and shall be constructed of slip-resistant NFPA compliant surfaces. There shall be four (4) rubber shock mounted lights furnished in the lower forward facing panel to illuminate the walkway.

Access to the plumbing area shall be provided from both sides of the truck with a large full width walkway ahead of the control panel. The fire pump, valves and controls shall be accessible for service and maintenance as required by applicable sections of NFPA standards. In addition, a removable aluminum tread plate panel shall be provided on vertical surface on the front surface of the pump enclosure.

Access handrails shall be 1-1/4" in diameter extruded aluminum with chrome plated end brackets shall be provided and installed on each side, for easy access to the walkway.

Engine gauges and master pump gauges shall be mounted on the upper incline plane of the gauge and valve control panel. Both the upper gauge panel and lower valve control panel to be full width and completely removable for access to the pump compartment. The valve controls and individual pressure gauges to be located on the lower flat surface of the valve control panel.

All valves and control handles shall have removable escutcheons for easy valve service without removing the entire panel.



The following controls and equipment shall be provided on the pump panel or within the pump enclosure:

- Electric primer.
- Pump and plumbing area service lights.
- Pressure control device and throttle control.
- Fire pump and engine instruments.
- Pump intakes and discharge controls.
- Master intake and discharge gauges.
- Tank fill control.
- Tank suction control.
- Water tank level gauge.
- Pump panel lights.

Crosslay Installation

The dunnage area atop the pump enclosure shall be notched for the installation of a crosslay hose bed. The hosebed shall have smooth sides and removable grating under the hose area. Provisions shall be provided to secure hose and equipment per requirements of applicable NFPA standards.

26-30-1500

LEFT SIDE RUNNING BOARD

The left pump panels shall be equipped with a side running board. The running board will extend along the width of the pump enclosure from the forward end of the body module to behind the chassis cab.

The running board shall be constructed of aluminum tread plate, bolted in place with stainless steel fasteners. The step surfaces shall be in compliance with applicable sections of NFPA requirements.

26-30-1550

RIGHT SIDE RUNNING BOARD

The right pump panel shall be equipped with a side running board. The running board will extend along the width of the pump enclosure from the forward end of the body module to behind the chassis cab.

The running board shall be constructed of aluminum tread plate, bolted in place with stainless steel fasteners. The step surfaces shall be in compliance to applicable sections of NFPA requirements.



26-31-5200

PUMP ENCLOSURE ACCESS DOOR -- RIGHT SIDE UPPER

A pump panel access door shall be provided on the upper right side of the side mount pump enclosure. The door shall be constructed of aluminum tread plate with push button type latches.

26-35-1100

LEFT SIDE PUMP PANEL -- BOLTED

The pump panel installed on the left hand side of the pump enclosure shall be fastened to the pump enclosure with 1/4" stainless steel bolts.

26-35-1200

RIGHT SIDE PUMP PANEL -- BOLTED

The pump panel installed on the right hand side of the pump enclosure shall be fastened to the pump enclosure with 1/4" stainless steel bolts.

26-35-7100

PUMP PANEL -- TOP MOUNT

The left hand, right hand, and top mount pump panels shall be constructed of black thermoplastic coating aluminum material and be fastened to the pump enclosure with 1/4" stainless steel bolts.

26-35-1100

LEFT SIDE PUMP PANEL -- BOLTED

The pump panel installed on the left hand side of the pump enclosure shall be fastened to the pump enclosure with 1/4" stainless steel bolts.

26-35-1200

RIGHT SIDE PUMP PANEL -- BOLTED

The pump panel installed on the right hand side of the pump enclosure shall be fastened to the pump enclosure with 1/4" stainless steel bolts.

26-55-5000

LABELS

Safety, information, data, and instruction labels for apparatus shall be provided and installed at the operator's instrument panel.

The labels shall include rated capacities, pressure ratings, and engine speeds as determined by the certification tests. The no-load governed speed of the engine, as stated by the engine manufacturer, shall also be included.

The labels shall be provided with all information and be attached to the apparatus prior to delivery.



26-55-5100

COLOR CODED PUMP PANEL LABELING AND NAMEPLATES

Discharge and intake valve controls shall be color coded in compliance to guidelines of applicable sections of NFPA standards.

Permanent type nameplates and instruction panels shall be installed on the pump panel for safe operation of the pumping equipment and controls.

26-56-5105

MIDSHIP PUMP PANEL LIGHTS -- LEFT SIDE

Two (2) Weldon #2025 or equal lights with clear lenses shall be installed under an instrument panel light hood on the left side pump panel. The lights shall be controlled by a switch located on the operator's instrument panel.

26-56-5110

MIDSHIP PUMP PANEL LIGHTS -- RIGHT SIDE

Two (2) Weldon #2025 or equal lights with clear lenses shall be installed under an instrument panel light hood on the right side pump panel. The lights shall be controlled by a switch located on the operator's instrument panel.

26-56-5150

PUMP PANEL LIGHTS -- TOP MOUNT

Three (3) Weldon #2025 or equal lights with clear lenses shall be installed under an instrument panel light hood along the full width of the top mount pump panel. Each side the pump enclosure shall be two (2) lights with light hood, controlled by the switch on pump panel.

26-56-5500

PUMP PANEL LIGHTS

One (1) of the pump panel lights shall be illuminated at the time the fire pump is engaged into operation. The remaining lights shall be controlled by a switch located on the operator's instrument panel.

27-01-4150

TEST TAPS

Test taps for pump intake and pump pressure shall be provided on the pump instrument panel and be properly labeled.

27-35-2050

WATER TANK GAUGE

The apparatus shall be equipped with one (1) Class1 "Intelli-Tank" water tank level gauge and shall be installed on the pump panel. The tank level gauge shall indicate the liquid level on an easy to read LED display and show increments of 1/8 of a tank.

10174-0004



Each tank level gauge system shall include:

- A pressure transducer mounted on the outside of the tank in an easily accessible area. Sealed foam tanks will require zero pressure vacuum vents.
- Super bright LED 4-light display with a visual indication at nine accurate levels.

Weather resistant connectors to connect to the digital display, to the pressure transducer and to the apparatus power.

43-00-4105

HOSEBED WIDTH

The width of the hosebed shall be 70".

43-00-4150

ALUMINUM HOSEBED GRATING SINGLE AXLE

The hose bed compartment deck shall be constructed entirely from maintenance-free, extruded aluminum slats. The slats shall have an anodized, radiused ribbed top surface. The slats shall be of widths approximately 3/4" high x 6" wide and shall be welded into a one-piece grid system to prevent the accumulation of water and allow ventilation to assist in drying hose.

43-00-4300

VINYL HOSEBED COVER SINGLE AXLE

The apparatus shall be equipped with a vinyl hosebed cover with a weighted rear flap.

The cover, approximately 74" wide, shall be secured utilizing a Velcro fastening system at the front and sides of the hosebed body.

The color shall be: red

43-01-1012

MODULAR BODY

The apparatus body shall be designed and built using a computer aided drafting and three dimensional modeling program. This engineering program shall have finite element analysis capability, so the design can be studied and stress points identified. This will allow for a total design review to ensure the strongest and most durable body possible. The use of this engineering system will ensure accuracy and repeatability for service parts in the event of accidental damage. The body components shall be fabricated using CNC equipment to cut and bend the individual body parts.

1/8" ALUMINUM BODY

The compartment modules shall be fabricated using .125 5052H32 aluminum sheets. The individual compartment pieces shall be cut using a CNC high definition plasma or large cutting equipment. The pieces shall incorporate a "notch and tab" design. This design will ensure that

all parts fit accurately. These compartment modules shall bolt to the subframe creating a completely independent modular body.

43-00-0350

SUB-FRAME

The apparatus shall be designed using a structural subframe, designed as an independent assembly, separate of the chassis frame. This will allow for a totally modular body, capable of being remounted to a different chassis if the need arises. Designs which do not use a modular subframe assembly will not be allowed.

This subframe shall be designed using heavy duty 7 gauge steel and 5/8" steel plates to form a subframe capable of carrying the loads designated by the Fire Department. The subframe shall be designed to carry a minimum of 500 lbs per compartment, distributed. The subframe shall be powder coated before assembly to prevent corrosion. Subframes that are painted or undercoated will not be acceptable.

The subframe shall be assembled with "Huck" bolts to ensure maximum tightening and clamping force at all joints. It shall be bolted securely at the rear with a minimum of four (4) 5/8" grade 8 bolts on each side and mounted at the front using four (4) spring loaded assemblies and lateral guides to allow for maximum twist, yet keeping the body aligned on the chassis.

The subframe shall consist of formed 7 gauge cross members, spaced no more than 16-inches apart, to adequately support the water tank. There shall be 1/4" thick hard rubber channel pads covering the cross members, which will help prevent tank damage due to road shock. The tank shall be held in place by four (4) formed angle brackets, at least 3" high. These four brackets will prevent fore and aft and lateral movement of the tank. These cross members shall be attached to two (2) longitudinal 3x3 angles. These angles shall be at the ends of the cross members to allow the compartment to be attached and supported by these pieces. There shall be at least two down and out compartment supports under each compartment, ahead of and behind the rear wheels.

43-00-0352

SUB-FRAME

The subframe shall have a powder coat finish.

43-00-0420

SINGLE AXLE WHEEL WELL AREA

For ease of accessibility and maintenance, wheel well panels shall be double break formed painted smooth plate that is welded in place.

To fully protect the wheel well area from road debris and to aid in cleaning, a full depth (minimum of 25") radius wheel well liner shall be provided. Wheel well liner shall be smooth aluminum to prevent corrosion.

10174-0004



The rear wheel wells shall be radius cut for a streamlined appearance. A polished aluminum fenderette shall be furnished at each rear wheel well opening, held in place with concealed stainless steel fasteners.

43-00-5130

LADDER RACK, LADDERS AND PIKE POLES

An electric ladder rack shall be installed on the right side of the apparatus body, to carry the ladders in a horizontal position above the side compartments. Each electric cylinder shall be 12-volt operated and installed in an area that provides proper protection of the electric components.

Ladder rack shall be of the dual pivot arm design with stabilizing arms at the front and rear. Ladder rack assembly shall be located on the right side of the body, above the compartment area. There shall be an air operated safety lock provided with control switch on the right side pump operator's panel. The ladder rack actuator control switch shall be weatherproof type and located on the right side pump panel in full view of the rack. A safety interlock will be supplied to prevent operation of the rack when the upper compartment doors are open.

Flashing lights facing front and rear shall be installed on the rack and shall be illuminated whenever the rack is in the lowered position. The outward side of the equipment rack that protrudes beyond the body of the apparatus shall be striped or painted with reflective material.

Cast aluminum ladder brackets with chrome plated quick release type mounting clamps shall be provided which hold the ladders to the pivot arm assembly.

A red warning light shall be provided and mounted in the cab to warn the driver when ladder rack is not in the stowed position.

43-08-0512

ROLLUP DOORS

The rollup doors shall be ROM manufacturing roll up doors.

43-10-0000

LEFT SIDE BODY COMPARTMENTS

The left side body compartmentation shall be as follows:

43-10-1200

LEFT FRONT COMPARTMENT

There shall be one (1) full height compartment located ahead of the rear wheels. The compartment shall be equipped with a full height single natural finish roll up door.

The compartment shall be equipped with the following:

10174-0004



55-02-2200

COMPARTMENT LIGHTS

One (1) incandescent light fixture shall be installed in each exterior compartment of the apparatus. The light shall have a clear lens.

55-06-1150

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

43-10-3300

LEFT OVERWHEEL COMPARTMENT

There shall be one (1) compartment above the rear wheels. The compartment shall be equipped with a single natural finish roll up door.

The compartment shall be equipped with the following:

55-02-2200

COMPARTMENT LIGHTS

One (1) incandescent light fixture shall be installed in each exterior compartment of the apparatus. The light shall have a clear lens.

55-06-1150

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

43-10-5000

LEFT REAR COMPARTMENT

There shall be one (1) full height compartment located behind the rear wheels. The compartment shall be equipped with a full height single natural finish roll up door.

The compartment shall be equipped with the following:

55-02-2200

COMPARTMENT LIGHTS

One (1) incandescent light fixture shall be installed in each exterior compartment of the apparatus. The light shall have a clear lens.

55-06-1150

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

43-12-0000

RIGHT SIDE BODY COMPARTMENTS

The right side body compartmentation shall be as follows:



43-12-1300

RIGHT FRONT COMPARTMENT

There shall be one (1) full height compartment located ahead of the rear wheels. The compartment shall be equipped with a full height single natural finish roll up door.

The compartment shall be equipped with the following:

55-02-2200

COMPARTMENT LIGHTS

One (1) incandescent light fixture shall be installed in each exterior compartment of the apparatus. The light shall have a clear lens.

55-06-1150

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

43-12-3300

RIGHT OVERWHEEL COMPARTMENT

There shall be one (1) compartment above the rear wheels. The compartment shall be equipped with a single natural finish roll up door.

The compartment shall be equipped with the following:

55-02-2200

COMPARTMENT LIGHTS

One (1) incandescent light fixture shall be installed in each exterior compartment of the apparatus. The light shall have a clear lens.

55-06-1150

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

43-12-5000

RIGHT REAR COMPARTMENT

There shall be one (1) full height compartment located behind the rear wheels. The compartment shall be equipped with a full height single natural finish roll up door.

The compartment shall be equipped with the following:

55-02-2200

COMPARTMENT LIGHTS

One (1) incandescent light fixture shall be installed in each exterior compartment of the apparatus. The light shall have a clear lens.

55-06-1150

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

10174-0004



43-14-1000

REAR CENTER COMPARTMENT

There shall be one (1) full height compartment located at the rear of the apparatus. The compartment shall be equipped with a full height natural finish roll up door.

The compartment shall be equipped with the following:

55-02-2200

COMPARTMENT LIGHTS

One (1) incandescent light fixture shall be installed in each exterior compartment of the apparatus. The light shall have a clear lens.

55-06-1150

The compartment light will be controlled by an automatic "On-Off" switch located on each compartment door.

43-18-0600

EXTRUDED ALUMINUM RUB RAILS

Full body length polished aluminum rub rails shall be bolted in place on the right and left body sides and in the pump panel area. The rub rails shall extend outward beyond the body sides for protection of the compartments and doors. There shall be a bolt on aluminum corner casting on each rear corner to blend the rear tailboard assembly with the side rub rails.

The side rub rails shall be a heavy extruded aluminum "C" channel.

43-18-0700

SIDE AND REAR OVERLAYS

Overlay panels shall be constructed of 3003 polished aluminum treadplate. Polished aluminum overlay shall be provided and installed in all required areas of the apparatus body.

Overlay shall be installed with "Aluminized" stainless steel bolts to prevent corrosion.

The rear of the apparatus shall be smooth finish, for the installation of chevron striping.

43-18-1000

REAR STEP/TAILBOARD

A single piece .188 rear step/tailboard shall be furnished that is a minimum of 12.00" deep and full width of the apparatus body, from rub rail to rubrail. The tailboard shall be provided with a removable casting on each corner for a pleasing appearance.

43-19-2000

AIR CYLINDER COMPARTMENT IN WHEELWELL

Four (4) breathing air cylinder storage compartments shall be provided and located in the rear wheel well area of the apparatus body.



The cylinder storage compartment shall be constructed entirely of aluminum. The door assemblies shall be provided with a gasket between door and body side, bolted in-place and removable for repair or replacement.

Compartment shall be provided with SCBA cylinder scuff protection. A brushed aluminum door with push button trigger latch shall be provided.

43-19-3100

HANDRAIL REAR STEP

Two (2) extruded aluminum non-slip handrails, approximately 48" in length, shall be provided and mounted on the rear of the apparatus, one (1) on each side of the body.

43-19-4100

FOLDING STEP REAR

Three (3) 8" square folding steps of chrome plated die cast aluminum shall be provided. The step shall comply to NFPA #1901 non-slip standards and shall be installed on the rear left side of the body.

50-00-5000

12-VOLT ELECTRICAL SYSTEM

50-03-1050

LOW VOLTAGE ELECTRICAL SYSTEM SPECIFICATIONS

The electrical system shall include all panels, electrical components, switches and relays, wiring harnesses and other electrical components. The electrical equipment installed by the apparatus manufacturer shall conform to current automotive electrical system standards, the latest Federal DOT standards, and the requirements of the applicable NFPA standards.

All wiring shall be stranded copper or copper alloy conductors of a gauge rated to carry 125 percent of the maximum current for the protected circuit. Voltage drops in all wiring from the power source to the using device shall not exceed 10 percent. The wiring and wiring harness and insulation shall be in conformance to applicable SAE and NFPA standards. The wiring harness shall conform to SAE J-1128 with GXL temperature properties. All exposed wiring shall be protected in a loom with a minimum 289 degree Fahrenheit rating. All wiring looms shall be properly supported and attached to body members. The electrical conductors shall be constructed in accordance with applicable SAE standards, except when good engineering practice requires special construction.

The wiring connections and terminations shall use a method that provides a positive mechanical and electrical connection and shall be installed in accordance with the device manufacturer's instructions. Electrical connections shall be with mechanical type fasteners and large rubber grommets where wiring passes through metal panels.



Top-Mount Pumper Specifications Stock unit #17037

The wiring between the cab and body shall be joined using Deutsche type connectors or an enclosed in a terminal junction panel area. This system will permit body removal with minimal impact on the apparatus electrical system. All connections shall be crimp-type with insulated shanks to resist moisture and foreign debris such as grease and road grime. Weather-resistant connectors shall be provided throughout to ensure the integrity of the electrical system.

Any electrical junction or terminal boxes shall be weather resistant and located away from water spray conditions. In addition, the main body junction panel shall house the automatic reset breakers and relays where required.

There shall be no exposed electrical cabling, harnesses, or terminal connections located in compartments, unless they are enclosed in a junction box or covered with a removable electrical panel. The wiring shall be secured in place and protected against heat, liquid contaminants and damage. Wiring shall be uniquely identified every three-inches (3") by color coding or permanent marking with a circuit function code and identified on a reference chart or electrical wiring schematic per requirements of applicable NFPA #1901 standards.

The electrical circuits shall be provided with low voltage overcurrent protective devices. Such devices shall be accessible and located in required terminal connection locations or weather resistant enclosures. The overcurrent protection shall be suitable for electrical equipment and shall be automatic reset type and meet SAE standards. All electrical equipment, switches, relays, terminals, and connectors shall have a direct current rating of 125 percent of maximum current for which the circuit is protected. The system shall have electro-magnetic interference suppression provided as required in applicable SAE standards.

The electrical system shall include the following:

- Electrical terminals in weather exposed areas shall have a non-conductive grease or spray applied. A corrosion preventative compound shall be applicable to all terminal plugs located outside of the cab or body.
- The electrical wiring shall be harnessed or be placed in a protective loom.
- Holes made in the roof shall be caulked with silicone. Large fender washers shall be used when fastening equipment to the underside of the cab roof.
- Any electrical component that is installed in an exposed area shall be mounted in a manner that will not allow moisture to accumulate in it.
- A coil of wire must be provided behind an electrical appliance to allow them to be pulled away from mounting area for inspection and service work.
- All lights that have their sockets in a weather exposed area shall have corrosion preventative compound added to the socket terminal area.



The warning lights shall be switched in the chassis cab with labeled switches in an accessible location. Individual rocker switches shall be provided only for warning lights provided over the minimum level of warning lights in either the stationary or moving modes. All electrical equipment switches shall be mounted on a switch panel mounted in the cab convenient to the operator. The warning light switches shall be of the rocker type. For easy nighttime operation, an integral indicator light shall be provided to indicate when the circuit is energized. All switches shall be appropriately identified as to their function.

A single warning light switch shall activate all required warning lights. This switch will allow the vehicle to respond to an emergency and "call for the right of way". When the parking brake is applied, a "blocking right of way" system shall automatically activate per requirements of the applicable NFPA standards. All "clear" warning lights shall be automatically turned off upon application of the parking brake.

NFPA REQUIRED TESTING OF ELECTRICAL SYSTEM

The apparatus shall be electrically tested upon completion of the vehicle and prior to delivery. The electrical testing, certifications, and test results shall be submitted with delivery documentation per requirements of the applicable NFPA standards. The following minimum testing shall be completed by the apparatus manufacturer:

1. Reserve capacity test:

The engine shall be started and kept running until the engine and engine compartment temperatures are stabilized at normal operating temperatures and the battery system is fully charged. The engine shall be shut off and the minimum continuous electrical load shall be activated for ten (10) minutes. All electrical loads shall be turned off prior to attempting to restart the engine. The battery system shall then be capable of restarting the engine. Failure to restart the engine shall be considered a failed test.

2. Alternator performance test at idle:

The minimum continuous electrical load shall be activated with the engine running at idle speed. The engine temperature shall be stabilized at normal operating temperature. The battery system shall be tested to detect the presence of battery discharge current. The detection of battery discharge current shall be considered a test failure.

3. Alternator performance test at full load:

The total continuous electrical load shall be activated with the engine running up to the engine manufacturer's governed speed. The test duration shall be a minimum of two (2) hours.



Activation of the load management system is permitted during this test. However, if an alarm sounds due to excessive battery discharge, as detected by the system requirements in the NFPA standards, or a system voltage of less than 11.7 volts dc for more than 120 seconds is present, the test has failed.

4. Low voltage alarm test:

Following the completion of the above tests, the engine shall be shut off. The total continuous electrical load shall be activated and shall continue to be applied until the excessive battery discharge alarm activates. The battery voltage shall be measured at the battery terminals. With the load still applied, a reading of less than 11.7 volts dc for a 12 volt system shall be considered a test failure. The battery system shall then be able to restart the engine. Failure to restart the engine shall be considered a test failure.

NFPA REQUIRED DOCUMENTATION

The following documentation shall be provided on delivery of the apparatus:

- a. Documentation of the electrical system performance tests required above.
- b. A written load analysis, including:
 - 1. The nameplate rating of the alternator.
 - 2. The alternator rating under the conditions.
 - 3. Each specified component load.
 - 4. Individual intermittent loads.

50-12-5200

ROCKER SWITCH CONSOLE

One (1) switch console with individual rocker switches to control electrical equipment and emergency lighting shall be installed in the chassis cab dash area.

50-15-3500

MASTER ELECTRIC SWITCH

One (1) master battery disconnect switch shall be located conveniently to the driver of the apparatus. The switch shall disconnect the 12 volt power supply from the battery system.

A green "Master On" light shall be provided. This light shall illuminate anytime the master switch is in the "ON" position.



51-05-7100

ENGINE COMPARTMENT LIGHT

One (1) 12 volt incandescent light with switch shall be mounted in the engine enclosure.

51-05-7200

PUMP ENCLOSURE LIGHTS

One (1) incandescent work light shall be provided in the pump enclosure. The control switch shall be mounted on the light head.

52-01-1800

BACK-UP ALARM

One (1) an automatic electric back-up alarm shall be wired to the back-up light circuit, and mounted under the rear of the apparatus body.

53-01-1500

MARKER LIGHTS

Incandescent marker lights shall be installed on the vehicle in conformance to the Department of Transportation requirements.

53-02-1500

LICENSE PLATE BRACKET

One (1) stainless steel license plate bracket shall be provided at the rear bumper. The bracket shall have a LED light.

54-02-1700

CAB GROUND LIGHTS

Incandescent ground lights shall be installed under the cab doors.

54-03-1150

PUMP PANEL GROUND LIGHTS

Two (2) incandescent ground lights shall be installed under the pump panel running boards. One (1) light shall be located on the driver's side and one (1) light located on the officer's side of the apparatus.

54-03-1550

REAR STEP GROUND LIGHTS

Two (2) incandescent ground lights shall be installed under rear step of the apparatus.

54-04-1999

The ground lights shall automatically activate when the parking brake is applied.

54-10-1600

STEP LIGHT

One (1) incandescent step light with clear lens shall be installed on the rear step of the apparatus body.



54-11-2100

The step/walkway light switch shall be installed and wired to the parking brake.

54-12-2000

DECK LIGHTS

One (1) Unity Model #AG spotlight and one (1) Unity Model #AG floodlight, with 50 watt bulbs shall be installed. The lights shall have an "on-off" switch.

54-12-2020

DECK LIGHT MOUNTING

The deck lights shall be installed at the rear of the hose bed.

55-11-2000

DOOR OPEN/HAZARD WARNING LIGHT

A red flashing, warning light shall be provided and installed in the driver's compartment to indicate an open passenger or apparatus compartment door. The warning light shall also be attached to folding equipment racks and light towers as specified. The light shall be a flashing rectangular incandescent marker light with a red lens and shall be properly marked and identified.

53-03-2650

TAIL LIGHTS

One (1) pair of Whelen LED tail/brake lights shall be provided. The rectangular 4"x6" lights shall be red.

53-04-2450

TURN SIGNALS

One (1) pair of Whelen turn signals shall be provided. The rectangular LED lights shall be 4"x 6" in dimension.

53-06-3350

BACKUP LIGHTS

One (1) pair of Whelen LED backup lights shall be installed on the rear of the apparatus body. The dimensions shall be 4" x 6" and the lens color shall be clear.

56-01-3000

ELECTRIC SIREN AND CONTROL

One (1) Whelen model #295SLSA1 electronic siren shall be mounted in the cab. This unit shall feature an electronic air horn, wail, yelp, hi-lo and shall have a hard wired PA microphone.

56-01-3010

SPEAKER

One (1) Whelen Model #SA315P, speaker, with a non-corrosive nylon composite housing, shall be installed. The speaker shall be wired to the electric siren located in the cab.



57-02-7000

LIGHTBAR

One (1) Whelen Justice series light bar shall be included with the apparatus cab. The light bar shall be a model JE2NFPA and shall be mounted on the roof of the cab, towards the front, above the windshield.

The light bar shall feature:

- A 56" light bar designed for high performance
- Four (4) red Linear Super LED corner modules
- Four (4) red CON3 LED hinged modules
- Two (2) white CON3 LED hinged modules with exterior clear optic lenses
- Clear hard coated lenses to provide extended life/luster protection against UV & chemical stresses
- Designed in accordance with NFPA Zone A requirements

58-03-4000

LOWER FRONT WARNING LIGHTS

One (1) pair of Whelen model LINZ6 LED warning lights shall be installed, one each side one the front of the chassis cab. The dimensions of the lights shall be 2" x 4".

58-01-1300

There shall be chrome bezels supplied and installed on the warning lights.

58-09-4000

INTERSECTION WARNING LIGHTS

One (1) pair of Whelen model LINZ6 LED warning lights shall be installed one each side of the chassis cab. The dimensions of the lights shall be 2" x 4".

58-01-1300

There shall be chrome bezels supplied and installed on the warning lights.

58-36-4000

LOWER REAR SIDE WARNING LIGHTS

One (1) pair of Whelen model LINZ6 LED warning lights shall be installed, one each side of the apparatus body, towards the rear of the body. The dimensions of the lights shall be 2" x 4".

58-01-1300

There shall be chrome bezels supplied and installed on the warning lights.

58-71-3000

UPPER REAR WARNING LIGHTS

One (1) pair of Whelen model #RB6T Rota-Beam warning lights shall be installed, one each side on the upper rear of the apparatus body. The unit shall have dual rotators with total dimensions of 7" high x 8" deep and shall have red lenses.

10174-0004



58-74-5300

REAR WARNING LIGHT MOUNTING

The upper rear lights shall be mounted on cast aluminum stanchions attached to the apparatus body, one on each side.

58-81-4000

LOWER REAR WARNING LIGHTS

One (1) pair of Whelen model LINZ6 LED warning lights shall be installed, one each side on the lower rear of the apparatus body. The dimensions of the lights shall be 2" x 4".

58-01-1300

There shall be chrome bezels supplied and installed on the warning lights.

80-06-1000

BODY PAINT PROCESS

All bright metal fittings, if unavailable in stainless steel shall be heavily chrome plated. Iron fittings shall be copper plated prior to chrome plating.

All seams shall be caulked both inside and along the exterior edges with a urethane automotive sealant to prevent moisture from entering between any body panel.

The body and all parts shall be thoroughly washed with a grease cutting solvent (PPG DX330) prior to any sanding. After the body has been sanded and the weld marks and minor imperfections are filled and sanded, the body shall be washed again with (PPG DX330) to remove any contaminants on the surface.

The first coating to be applied is a pre-treat self etching primer (PPG DX1787) (.5 to 1.0 dry film build) for maximum adhesion to the body material. The next two to four coats (depending on need) shall be an acrylic urethane primer surfacer (PPG K36). The film build shall be 4-6 mils when dry. The primer surfacer coat, after appropriate dry time, shall be sanded with 320-600 grit sandpaper to ensure maximum gloss of the paint. The last step is the application of at least three coats of PPG Delfleet polyurethane two-component color (single stage). The film build being 2-3 mils dry. The single stage polyurethane, when mixed with corresponding catalyst shall provide a UV barrier to prevent fading and chalking.

All products and technicians are certified by PPG every two (2) years.

80-06-1100

APPARATUS COLOR

The apparatus body shall be painted red to match the chassis.

10174-0004



80-30-5000

INTERIOR COMPARTMENT FINISH

The apparatus side compartment interiors are to be painted with a spatter finish material. The compartments shall be cleaned with a grease remover, and then the surface sanded and prepared for painting. The compartment shall be provided with two (2) coats of white epoxy. The compartments are then coated with a splatter paint top coat.

Compartment interiors that are wrinkle finished or are topcoat web painted do not meet the intent nor durability of this requirement and are not acceptable.

80-40-2000

WHEEL PAINTING

The front and rear wheels shall be finish painted to match the apparatus body. Wheels shall be properly prepared and finished with primer coats and top coats as specified.

80-44-1600

UNDERCOATING

The entire underside of the single axle apparatus body is to be cleaned and properly prepared for application of a sprayed on automotive type undercoating for added corrosion resistance. Undercoating is to be a solvent based, rubberized coating, black in color.

80-51-2000

CAB AND BODY STRIPE

A straight Scotchlite reflective stripe, 4" minimum in width, shall be applied horizontally around the cab and body in compliance with applicable NFPA 1901 standards. The purchaser shall specify the color and location of the stripe.

80-51-3000

CHEVRON STRIPING

The entire rear portion of the body shall have a 3M red/amber reflective chevron style striping, applied at a 45-degree upward angle pointing towards the center upper portion of the rear panel.

City of Bisbee - Fire Truck / Pumper Bid

Bid due 12/15/15 by 4:00 p.m.

City of Bisbee

City Clerk

118 Arizona St.

Bisbee, AZ 85603

Exceptions / Clarification

The specifications state a maximum overall length of 24'.

Due to the June 1, 2016 deadline, Rosenbauer can only provide a stock/demo unit currently in production. We have supplied information on the shortest overall unit and we are outside the maximum 24'.

Additional Bids Received



December 15, 2015

City of Bisbee
118 Arizona Street
Bisbee, AZ 85603

Re: Proposal for Fire Truck/Pumper

Gentlemen:

We hereby propose and agree to provide, after your acceptance of this proposal and the proper execution and approval of a contract acceptable to both parties, the following apparatus:

One (1) HME Pumper Fire Engine Pumper
Built on an International 7400 Two Door Cab and Chassis

The apparatus and equipment shall be in accordance with the attached HME specifications. The apparatus shall be delivered approximately 240 calendar days after receipt and acceptance of a clean order.

The apparatus is offered for the sum of:

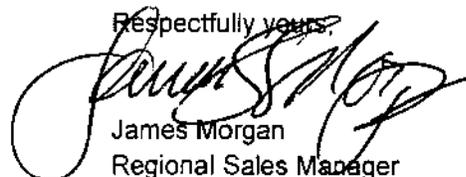
TWO-HUNDRED AND SEVENTEEN THOUSAND, FOUR HUNDRED AND THIRTY-FOUR dollars
(\$217,434.00), F.O.B. Wyoming, Michigan

Terms of payment shall be net on delivery of the completed apparatus. No pre-payments or progress payments of any kind are required. Sales tax is not included in the bid price and shall be paid by the Fire District direct to the State of Arizona DMV.

All orders are subject to final approval by the Company. Prices quoted are exclusive of any applicable Federal, State, or local taxes. Delivery times are quoted subject to delays incurred by causes beyond our control.

Please review this proposal and contact us if you have any questions. Hoping to be of further service, we remain

Respectfully yours,



James Morgan
Regional Sales Manager



INTRODUCTION

QUALIFICATIONS – HME, Incorporated is located in Wyoming, Michigan, where it manufactures a complete line of fire apparatus, including cabs and chassis, pumpers, rescue apparatus, water tenders, aerials, etc. The company operates in a modern facility which features computer controlled fabricating equipment, down-stream paint booths, and CAD system. Production currently averages over 200 units per year.

HME, Inc. was established in 1913 as a manufacturer of truck components, and has manufactured fire apparatus since the 1930's. A totally custom manufacturer, the company specializes in stainless steel construction with a design that has been that has been finite element analysis proven.

REGIONAL FACTORY REPRESENTATIVE - The authorized regional HME representative is James S. Morgan; telephone (503) 472-3621.

SERVICE AND PARTS - Authorized service is available through various independent repair shops, with coordination through HME and your local sales representative.

ESTIMATED DELIVERY DATE - The estimated delivery date quoted is based upon our contract backlog at time of bid, and is subject to delays due to strikes, international conflict, acts of God, supplier non-performance, or any other cause beyond the control of HME, Inc.

EXCEPTIONS AND CLARIFICATIONS – Please note the following exceptions and clarifications:

- HME is taking is that the delivery of this apparatus will exceed the June 1, 2016 date.
- As there are a multitude of deck guns available, we have priced in a deck gun discharge, but no deck gun. A sample deck gun price is listed in the options below.
- HME cannot meet your delivery requirement of June 1st with this order; however, we believe that FEMA will grant you an extension if requested by the City.

OPTIONS – The following options are offered for this apparatus:

- Delivery to the City of Bisbee – add \$3,647.00.
- LED scene lights on both sides and the rear of the body - \$2,977.00.
- A TFT model XFC-42 deck gun kit – 3,900.00.
- A TFT model AB1ST-NX ball intake valve - \$1,400.00.
- A 6" blue Scotchlite stripe is included in the base bid. Top and bottom white pinstripe accent striping is an additional \$200.00.
- A base lettering package would cost an additional \$1,500.00.
- Four adjustable shelves would cost an additional \$800.00.

STANDARD ITEMS INCLUDED – The following items are included in our proposal; they exceed your specifications:

- Three ladders are included in the base bid; 14' roof, 24' extension, and 10' folding.
- A 6" blue Scotchlite stripe.
- Wheel chocks and mount.



- SCBA bottle storage for 7 bottles in wheel wells.
- Hose bed cover.
- Hose bed divider.

HME CommFox Specifications for the City of Bisbee



NFPA 1901-2009

The National Fire Protection Association "Standard for Automotive Fire Apparatus, 2009 Edition, is hereby adopted and made a part of these specifications, the same as if it were written out in full detail, with the exception of the section dealing with "Equipment Recommended for Various Types of Apparatus". Bidders shall provide the equipment specifically requested herein and the buyer shall supply the rest before the apparatus is put into service.

PAINT COLOR

The color of the cab and painted body panels shall be PPG 74048

CAB AND CHASSIS

Base Chassis, Model 7400 SBA 4X2

TOW HOOK, FRONT (2) Frame Mounted

FRAME RAILS Heat Treated Alloy Steel (120,000 PSI Yield); 10.250" x 3.610" x 0.375" (260.4mm x 91.7mm x 9.5mm); 456.0" (11582mm) Maximum OAL

BUMPER, FRONT Full Width, Aerodynamic, Chrome Plated Steel; 0.189" Material Thickness

AXLE, FRONT NON-DRIVING {Meritor MFS-12-143A} Wide Track, I-Beam Type, 12,000-lb Capacity

SUSPENSION, FRONT, SPRING Parabolic, Taper Leaf; 12,000-lb Capacity; With Shock Absorbers

Includes

: SPRING PINS Rubber Bushings, Maintenance-Free

BRAKE SYSTEM, AIR Dual System for Straight Truck Applications

Includes

: BRAKE LINES Color and Size Coded Nylon

: DRAIN VALVE Twist-Type

: DUST SHIELDS, FRONT BRAKE

: DUST SHIELDS, REAR BRAKE

: GAUGE, AIR PRESSURE (2) Air 1 and Air 2 Gauges; Located in Instrument Cluster

: PARKING BRAKE CONTROL Yellow Knob, Located on Instrument Panel

: PARKING BRAKE VALVE For Truck

: QUICK RELEASE VALVE Bendix On Rear Axle for Spring Brake Release: 1 for 4x2, 2 for 6x4

: SLACK ADJUSTERS, FRONT Automatic

: SLACK ADJUSTERS, REAR Automatic

: SPRING BRAKE MODULATOR VALVE R-7 for 4x2, SR-7 with relay valve for 6x4

Notes

: Rear Axle is Limited to 23,000-lb GAWR with Code 04091 BRAKE SYSTEM, AIR and Standard Rear Air Cam Brakes Regardless of Axle/Suspension Ordered.

DRAIN VALVE {Bendix DV-2} Automatic; With Heater; for Air Tank

Includes

: DRAIN VALVE Mounted in Wet Tank

HME CommFox Specifications for the City of Bisbee



AIR BRAKE ABS {Bendix AntiLock Brake System} With Electronic Stability Program (4-Channel) With Automatic Traction Control

AIR DRYER {Bendix AD-9} With Heater

Includes

: AIR DRYER LOCATION Inside Left Rail, Back of Cab

BRAKE CHAMBERS, SPRING Relocated To Rear Of Rear Axle For Maximum Ground Clearance

BRAKE CHAMBERS, FRONT AXLE {Haldex} 20 Sq. In.

BRAKE CHAMBERS, REAR AXLE {Haldex GC3030LHDHO} 30/30 Spring Brake

Includes

: BRAKE CHAMBERS, SPRING (2) Rear Parking; WITH TRUCK BRAKES: All 4x2,

BRAKES, FRONT, AIR CAM S-Cam; 16.5" x 5.0"; Includes 20 Sq. In. Long Stroke Brake Chambers

Notes

: The following features should be considered when calculating Front GAWR: Front Axles; Front Suspension; Brake System; Brakes, Front Air Cam; Wheels; Tires.

BRAKES, REAR, AIR CAM S-Cam; 16.5" x 7.0"; Includes 30/30 Sq. In. Long Stroke Brake Chamber and Spring Actuated Parking Brake

AIR COMPRESSOR {Bendix Tu-Flo 750} 16.5 CFM Capacity

STEERING COLUMN Stationary

STEERING WHEEL 2-Spoke, 18" Diam., Black

STEERING GEAR {Sheppard M-100} Power

EXHAUST SYSTEM Single, Horizontal, After-treatment Device Frame Mounted Right Side Back of Cab, Includes Horizontal Tail Pipe

Includes

: EXHAUST HEIGHT 10' Exhaust Height - Based on Empty Chassis with Standard Components (+ or - 1" Height)

: NOTE: The Horizontal Tailpipe Includes a Temperature Control Device

ENGINE EXHAUST BRAKE for MaxxFoRce I6 Engines, Electronically Activated

SWITCH, FOR EXHAUST 3 Position, Momentary, Lighted Momentary, ON/ CANCEL, Center Stable, INHIBIT

REGEN, Mounted in IP Inhibits Diesel Particulate Filter Regeneration When Switch is Moved to ON While Engine is Running, Resets When Ignition is Turned OFF

ELECTRICAL SYSTEM 12-Volt, Standard Equipment

Includes

: BATTERY BOX Steel with Plastic Lid

HME CommFox Specifications for the City of Bisbee



- : DATA LINK CONNECTOR For Vehicle Programming and Diagnostics In Cab
- : FUSES, ELECTRICAL SAE Blade-Type
- : HAZARD SWITCH Push On/Push Off, Located on Top of Steering Column Cover
- : HEADLIGHT DIMMER SWITCH Integral with Turn Signal Lever
- : HEADLIGHTS (2) Sealed Beam, Round, with Chrome Plated Bezels
 - : HORN, ELECTRIC Single
- : JUMP START STUD Located on Positive Terminal of Outermost Battery
- : PARKING LIGHT Integral with Front Turn Signal and Rear Tail Light
- : RUNNING LIGHT (2) Daytime, Included With Headlights
- : STARTER SWITCH Electric, Key Operated
- : STOP, TURN, TAIL & B/U LIGHTS Dual, Rear, Combination with Reflector
- : TURN SIGNAL SWITCH Self-Cancelling for Trucks, Manual Cancelling for Tractors, with Lane Change Feature
- : TURN SIGNALS, FRONT Includes Reflectors and Auxiliary Side Turn Signals, Solid State Flashers; Flush Mounted
- : WINDSHIELD WIPER SWITCH 2-Speed with Wash and Intermittent Feature (5 Pre-Set Delays), Integral with Turn Signal Lever
- : WINDSHIELD WIPERS Single Motor, Electric, Cowl Mounted
- : WIRING, CHASSIS Color Coded and Continuously Numbered

HORN, ELECTRIC (2)

IGNITION SWITCH Keyless

POWER SOURCE Cigar Type Receptacle without Plug and Cord

ALTERNATOR {Leece-Neville 14931PAH} Brush Type, 12 Volt 320 Amp Capacity, Pad Mount

BODY BUILDER WIRING Back of Standard Cab at Left Frame or Under Extended or Crew Cab at Left Frame; Includes Sealed Connectors for Tail/Amber Turn/ Marker/ Backup/Accessory Power/Ground and Sealed Connector for Stop/Turn

TAIL LIGHT WIRING MODIFIED Includes: Wiring for Standard Lt & Rt Tail Lights; Separate 8.0' of Extra Cable Wiring for Lt & Rt Body Mounted Tail Lights

BATTERY SYSTEM {JCI} Maintenance-Free (3) 12-Volt 2100CCA Total

TURN SIGNAL SWITCH With Hazard Flasher Overrides Brake, To be Done With Programming System Controller

HORN, AIR ACCOMMODATION PACKAGE; less Horn

BATTERY DISCONNECT SWITCH {Joseph Pollak} for Cab Power Disconnect Switch; Lever Operated, Disconnects Power to PDC, Does Not Disconnect Charging Circuits, Cab Mounted

STARTING MOTOR {Delco Remy 39MT} 12 Volt; Gear Reduced, With Thermal Over-Crank Protection

INDICATOR, LOW COOLANT LEVEL With Audible Alarm

HME CommFox Specifications for the City of Bisbee



GRILLE Stationary, Chrome

INTERNATIONAL LOGOS Ship Loose International Door Badges in Cab for Installation after Customer Graphics

BUG SCREEN Front End; Mounted Behind Grille

FRONT END Tilting, Fiberglass, With Three Piece Construction; for 2007 & 2010 Emissions

GRILLE EMBER SCREEN Mounted to Grille and Cowl Tray to Keep Hot Embers out of Engine and HVAC Air Intake System

KEYS - ALL ALIKE, ID Z-001

OIL FILTER, ENGINE {Hudgins Model 960 Spinner}

BLOCK HEATER, ENGINE {Phillips} 120 Volt/1250 Watt

Includes

: BLOCK HEATER SOCKET Receptacle Type; Mounted below Drivers Door

ENGINE, DIESEL {MaxxForce 9} EPA 10, 330 HP @ 2000 RPM, 950 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed

Includes

: AIR COMPRESSOR AIR SUPPLY LINE Naturally-Aspirated (Air Brake Chassis Only)

: ANTI-FREEZE Red Shell Rotella Extended Life Coolant; -40 Degrees F/ -40 Degrees C; for MaxxForce Engines

: COLD STARTING EQUIPMENT Intake Manifold Electric Grid Heater with Engine ECM Control

: CRUISE CONTROL Electronic; Controls Integral to Steering Wheel

: ENGINE OIL DRAIN PLUG Magnetic

: ENGINE SHUTDOWN Electric, Key Operated

: FUEL FILTER Included with Fuel/Water Separator

: FUEL/WATER SEPARATOR Fuel/Water Separator and Fuel Filter in a Single Assembly; With Water-in-Fuel Sensor; Engine Mounted

: GOVERNOR Electronic

: OIL FILTER, ENGINE Spin-On Type

: WET TYPE CYLINDER SLEEVES

FAN DRIVE {Horton Drivemaster Polar Extreme} Direct Drive Type, Two Speed. With Residual Torque Device for Disengaged Fan Speed

Includes

: FAN Nylon

RADIATOR Aluminum, Front to Back Cross Flow, Series System; 1663 Sq. In. Core and 885 Sq. In. Charge Air Cooler and 470 Sq. In. Low Temperature Radiator Down Flow

Includes

: DEAERATION SYSTEM with Surge Tank

: HOSE CLAMPS, RADIATOR HOSES Gates Shrink Band Type; Thermoplastic Coolant Hose Clamps

: RADIATOR HOSES Premium, Rubber

FEDERAL EMISSIONS for 2010; MaxxForce 9 & 10 Engines

HME CommFox Specifications for the City of Bisbee



AIR CLEANER Single Element

Includes

: GAUGE, AIR CLEANER RESTRICTION Air Cleaner Mounted

THROTTLE, HAND CONTROL Engine Speed Control; Electronic, Stationary, Variable Speed; Mounted on Steering Wheel

ENGINE CONTROL, REMOTE MOUNTED Provision for; Includes Wiring for Body Builder Installation of PTO Controls; With Ignition Switch Control for MaxxFox post 2007 Emissions Electronic Engines

FAN OVERRIDE Manual; With Electric Switch on Instrument Panel, (Fan On With Switch On)

ENGINE WATER COOLER {Sen-Dure} Auxiliary, For Use With Fire Trucks

EMISSION COMPLIANCE Engine Shutdown System Exempt Vehicles, Complies With California Clean Air Regulations

OBD COMPLIANCE for 2013 OBD (On Board Diagnostics)

TRANSMISSION, AUTOMATIC {Allison 3000EVS_P} 4th Generation Controls; Close Ratio, 5-Speed; With Overdrive, Includes Oil Level Sensor, With Provision for PTO, Less Retarder, Max. GVW N/A

Includes

: OIL FILTER, TRANSMISSION Mounted on Transmission

: TRANSMISSION OIL PAN Magnet in Oil Pan

OIL COOLER, AUTO TRANSMISSION {Modine} Water to Oil, for Allison Transmission

TRANSMISSION SHIFT CONTROL {Allison} Push-Button Type; for Allison 3000 & 4000 Series Transmission

TRANSMISSION OIL Synthetic; 29 thru 42 Pints

ALLISON SPARE INPUT/OUTPUT for Emergency Vehicle Series (EVS), 127/198 Includes J1939 Based Auto Neutral; Fire/Pumper, Tank, Aerial/Ladder

SHIFT CONTROL PARAMETERS Allison Performance Programming in Primary and Allison Economy Programming in Secondary

AXLE, REAR, SINGLE {Meritor RS-23-160} Single Reduction, 23,000-lb Capacity, With 200 Wheel Ends. Gear Ratio: 5.63

Includes

: REAR AXLE DRAIN PLUG (1) Magnetic, For Single Rear Axle

Notes

: The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.

: When Specifying Axle Ratio, Check Performance Guidelines and TCAPE for Startability and Performance

SUSPENSION, RR, SPRING, SINGLE Vari-Rate; 23,500-lb Capacity

HME CommFox Specifications for the City of Bisbee



Notes

: The following features should be considered when calculating Rear GAWR: Rear Axles; Rear Suspension; Brake System; Brakes, Rear Air Cam; Brake Shoes, Rear; Special Rating, GAWR; Wheels; Tires.

SPRINGS, REAR AUXILIARY Multileaf; 4,500-lb Capacity

AXLE, REAR, LUBE {EmGard 75W-90} Synthetic Oil; 30 thru 39.99 Pints

FUEL/WATER SEPARATOR with Filter Restriction/Change Indicator, Includes Standard Equipment Water-in-Fuel Sensor

FUEL TANK Top Draw; D Style, Non Polished Aluminum, 50 U.S. Gal., 189 L capacity, 16" Deep, with Quick Connect Outlet, Mounted Right Side, Under Cab

AUXILIARY FUEL DRAW TUBE Located at Auxiliary Port on Fuel Tank

CAB Conventional

Includes

- : ARM REST (2) Molded Plastic; One Each Door
- : CLEARANCE/MARKER LIGHTS (5) Flush Mounted
- : COAT HOOK, CAB Located on Rear Wall, Centered Above Rear Window
- : CUP HOLDERS Two Cup Holders, Located in Lower Center of Instrument Panel
- : DOME LIGHT, CAB Rectangular, Door Activated and Push On-Off at Light Lens. Timed Theater Dimming, Integral to Console, Center Mounted
- : GLASS, ALL WINDOWS Tinted
- : GRAB HANDLE, CAB INTERIOR (1) "A" Pillar Mounted, Passenger Side
- : GRAB HANDLE, CAB INTERIOR (2) Front of "B" Pillar Mounted, One Each Side
- : INTERIOR SHEET METAL Upper Door (Above Window Ledge) Painted Exterior Color
- : STEP (4) Two Steps Per Door

GAUGE CLUSTER English With English Electronic Speedometer

Includes

- : GAUGE CLUSTER (6) Engine Oil Pressure (Electronic), Water Temperature (Electronic), Fuel (Electronic), Tachometer (Electronic), Voltmeter, Washer Fluid Level
- : ODOMETER DISPLAY, Miles, Trip Miles, Engine Hours, Trip Hours, Fault Code Readout
- : WARNING SYSTEM Low Fuel, Low Oil Pressure, High Engine Coolant Temp, and Low Battery Voltage (Visual and Audible)

SEATBELT WARNING PREWIRE Includes Seat Belt Switches and Seat Sensors for all Belted Positions in the Cab and a Harness Routed to the Center of the Dash for the Aftermarket Installation of the Data Recorder and Seatbelt Indicator Systems, for 1 to 3 Seat Belts

GAUGE, OIL TEMP, ALLISON TRAN

IP CLUSTER DISPLAY On Board Diagnostics Display of Fault Codes in Gauge Cluster

SEAT, DRIVER {Seats, Inc. Universal Series} 911, NFPA Compliant, Air Suspension, High Back Vinyl with Covered Back and International Logo on Head Rest

Includes

- : SEAT BELT 3-Point, Lap and Shoulder Belt Type

HME CommFox Specifications for the City of Bisbee



SEAT, TWO-MAN PASSENGER {Gra-Mag} Fixed Back, Two Integral Headrest, Vinyl, Less Under Seat Storage Compartment

Includes

: SEAT BELT (2) One 3-Point Shoulder Belt and One 2-Point Lap Belt (Center Position)

GRAB HANDLE (2) Chrome Towel Bar Type With Anti-Slip Rubber Inserts; for Cab Entry, Mounted Left and Right, Each Side at "B" Pillar

MIRRORS (2) {Lang Mekra} Styled; Rectangular, 7.09" x 15.75" & Integral Convex Both Sides, 102" Inside Spacing, Breakaway Type, Heated Heads Thermostatically Controlled, Power Both Sides, Clearance Lights LED, Bright Finish Heads & Brackets

SEAT BELT All Red; 1 to 3

CAB MOUNTING HEIGHT EFFECTS High Cab in Lieu of Mid High Cab Mounting (Approx. 4.5")

AIR CONDITIONER {Blend-Air} With Integral Heater & Defroster

Includes

: HEATER HOSES Premium

: HOSE CLAMPS, HEATER HOSE Mubea Constant Tension Clamps

: REFRIGERANT Hydrofluorocarbon HFC-134A

CAB SOUND INSULATION Includes Dash Insulator and Engine Cover Insulator

Notes

: Feature included with CAB INTERIOR TRIM, Premium

HOSE CLAMPS, HEATER HOSE {Breeze} Belleville Washer Type

INSTRUMENT PANEL Center Section, Flat Panel

HVAC FRESH AIR FILTER

STORAGE POCKET, DOOR Molded Plastic, Full Width; Mounted on Passenger Door

CAB INTERIOR TRIM Deluxe

Includes

: "A" PILLAR COVER Molded Plastic

: CAB INTERIOR TRIM PANELS Cloth Covered Molded Plastic, Full Height; All Exposed Interior Sheet Metal is Covered Except for the Following: with a Two-Man Passenger Seat or with a Full Bench Seat the Back Panel is Completely Void of Covering

: CONSOLE, OVERHEAD Molded Plastic; With Dual Storage Pockets with Retainer Nets and CB Radio Pocket

: DOOR TRIM PANELS Molded Plastic; Driver and Passenger Doors

: FLOOR COVERING Rubber, Black

: HEADLINER Soft Padded Cloth

: INSTRUMENT PANEL TRIM Molded Plastic with Black Center Section

: STORAGE POCKET, DOOR (1) Molded Plastic, Full-Length; Driver Door

: SUN VISOR (2) Padded Vinyl with Driver Side Toll Ticket Strap, Integral to Console

CAB REAR SUSPENSION Air Bag Type

HME CommFox Specifications for the City of Bisbee



Notes WHEEL BEARING, FRONT, LUBE {EmGard 50W} Synthetic Oil

: Compatible Tire Sizes: 11R22.5, 12R22.5, 255/70R22.5, 255/80R22.5, 265/75R22.5, 275/70R22.5, 275/80R22.5, 295/75R22.5, 295/80R22.5

WHEEL BEARING, FRONT, LUBE {EmGard 50W} Synthetic Oil

CAB GROUND LIGHTING

One (1) 4" round LED light shall be mounted beneath each door. These lights shall be designed to provide illumination on areas under the driver and officer area entry/egress. All cab ground lights shall automatically activate when any cab exit door is opened and the parking brake is set.

A single switch shall be provided in the cab to activate all of the apparatus ground lights manually.

AUXILIARY ENGINE COOLER

The cooling system shall have one (1) auxiliary engine cooler mounted in the radiator water piping. The apparatus shall have the fire pump water circulated to the cooler from a valve located on the apparatus pump panel.

REFLECTIVE MATERIAL - INTERIOR CAB DOOR

The front cab doors shall have a minimum of 96 square inches of reflective material affixed to the inside of each door.

STEEL WHEELS

Hub piloted, painted steel disc wheels shall be supplied on the chassis.

The wheels shall be painted one (1) color by the chassis manufacturer. The wheel color shall match the lower color of the exterior of the cab.

REAR STEEL RIMS

Hub piloted, painted steel disc wheels shall be supplied on the rear axle.

The wheels shall be painted one (1) color by the chassis manufacturer. The wheel color shall match the lower color of the exterior of the cab.

ELECTRONIC SIREN

A Whelen electronic siren control, model 295SLSA1 full feature with 17 Scan-Lock siren tones including Radio Rebroadcast, Public Address, Manual, Wail, Yelp, Air Horn, Electronic Mechanical Siren tones and Piercer tones and hard wired microphone, shall be provided.

SIREN SPEAKER

There shall be one (1) Cast Products polished aluminum 100 watt speaker provided. The speaker shall be recessed into the left (driver's) side of the front bumper immediately outboard of the chassis frame rails.



HYDRA TECHNOLOGY

The pump module must employ Hydra Technology. Due to the design a pump module manufactured with Hydra Technology is compact in size; massive in performance.

Each component in the module must undergo a selection and placement analysis staff engineers. Utilizing advanced 3D software the engineers goals must provide component placements for ergonomics with a completed module that produces maximum water flow with optimum versatility. Only after the complete analysis and build of the module in the computer can the build of the hardware in the shop begin.

Pump module design beginning with a foundation; cage framework assemblies that are precision manufactured from strong corrosion free heavy wall stainless steel tubing. This framework mounts to the truck frame through a mounting design complimented with iso-mount elastomer cushions. The result shall be a mounting system that allows for the twisting movement of the truck frame without undue stress loading of the pump module.

Next assembled shall be the stainless side panels. Brushed, mirror polished or power coated the stainless steel side panels provide strength and durability. Precise engineering allows each panel to be laser machined before assembly; instead of drilling holes technicians shall spend their time on assembly techniques that provide installations that breeze through strict quality assurance.

A thorough review of the valve control placements on a control module shall result in a neat and orderly layout. Open the access door on a side control module and peer inside. The horizontal control rods appear neat and orderly. The appearance is only a portion of the requirement. The same neat and orderly appearance after countless hours of engineering design and ergonomic study provide a smooth trouble free linkage for valve operation. Another by product of the low profile control rod placement is the ability to offer ladder through the tank storage designs.

The gauge panel door shall be an expansive double wall stainless door supported by a 3/8 inch diameter hinge pin. The double wall door provides unsurpassed strength and gauge protection while thwarting the casual attempt of tinkering. Authorized servicing of the components within the door is simplified with a bolt on access panel.

Inside the access door; there shall be a clean well build appearance. Stainless steel piping, stainless steel panels, and a stainless steel framework all to provide years of trouble free service. Pipe threads are not allowed on plumbing larger than 1-1/2 inch in diameter. The pump module design shall employ Victaulic coupling connections in the pump module to save time when servicing a component. Installation of components without the use of pipe threads allows for "drop-out" maintenance of critical components without disassembly of entire piping systems. Drop in valves and manifolds with Victaulic couplings are only the start of the serviceability designed into this pump module.

PUMP COMPARTMENT

The pump compartment shall be separate from the hose body and compartments so that each may flex independently of the other. It shall be a fabricated assembly of stainless steel tubing, angles and channels, which does not support the fire pump and or running boards. The pump compartment shall be mounted onto the chassis through rubber biscuits in a four point pattern to allow for a chassis frame twist.

Pump compartment, pump, plumbing and gauge panels shall be removable from the chassis in a single

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assembly and shall have an approximate width of 47". The pump compartment shall be a modular design.

A stainless steel framework shall provide the support for the mounting of the pump lower panels. Stainless steel structure shall be provided as a support behind all control push-pull handles enabling a firm foundation for operation of the valve control.

An upper framework shall encompass the crosslay hose bed and walk way area for operation of the deck gun. The floor of this section shall be a bolt-on design to provide access for major repairs and or service.

RUNNING BOARDS

The running boards shall be separate from the hose body, compartments, and pump compartment so that each may flex independently of the other and to allow water to flow freely away from the running board area. Separation of the running boards and support structure from the hose body, compartments and pump compartment is desired to provide field service of the running board without major repairs to the pump compartment in the event of an accident.

The steel running board supports shall be bolted directly to the chassis frame rails to provide proper support. The running board step surface shall be covered in Laser Grip stainless steel meeting the current revision of NFPA 1901 for step requirements.

DUNNAGE COMPARTMENT OVER PUMP

There shall be a dunnage compartment furnished on top of the pump module. The floor shall be bolted in place and removable for access to the fire pump components for major service.

DUNNAGE COMPARTMENT GRABRAILS

Two (2) bright anodized extruded aluminum grab rails shall be provided, one (1) each side of the pump house on the side of the dunnage compartment just below the top edge mounted horizontal to provide easy access to the dunnage compartment. Molded rubber gaskets shall be installed under the grab handles to protect the surface of the compartment.

PUMP COMPARTMENT WORK LIGHT

The pump compartment shall have one (1) 4" round white LED work light to provide illumination of the pump compartment. The light shall have a weather resistant, toggle style on/off switch located inside the pump compartment adjacent to the door hinge area. The power for the pump module light shall be switched thru the battery master switch.

PUMP SERVICE ACCESS REQUIREMENTS

It is the opinion that service access to the pump, valves, gauges and controls are of the utmost importance. Special consideration shall be taken when evaluating the pump module design of the offerer. Pump panels that offer little to no access without the use of tools shall not be considered compliant with this requirement.

PUMP CONTROL PANELS

All pump controls and gauges shall be located at the left (street) side of the apparatus and properly

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identified. The layout of the pump control panel shall be ergonomically efficient and systematically organized. The pump operator's panel shall be removable in two (2) main sections for ease of maintenance. The pump and gauge panels shall be constructed of 12-gauge stainless steel. The gauge panel shall contain a panel for mounting of all instruments, engine monitoring system, and pressure control system.

The gauge panel shall be a double panel door design to protect in the enclosed door all gauge tubing, switch, and control wiring. The gauge panel exterior shall be made of 12-gauge stainless steel. The inner pan shall bolt onto the stainless exterior panel. There shall be an access panel in the inner panel easily removable for control or gauge service or replacement.

The gauge panel door shall be designed as an opening pump house service door on the street (left) side of the pump house. This gauge panel door shall provide an opening minimum size of 41 inches wide by 14 inches in height.

The lower section of the panel shall contain all inlets, outlets, and drains. All push-pull valve controls shall have quarter turn locking control rods with chrome plated zinc tee handles. Guides for the push-pull control rods shall be chrome plated zinc castings securely mounted to the pump panel. Push-pull valve controls shall be capable of locking in any position. The control rods shall pull straight out of the panel and shall be equipped with universal joints to eliminate binding.

There shall be an opening pump house service door on the curb (right) side of the pump house. This door shall provide an opening minimum size of 41 inches wide by 14 inches in height.

PUMP PANEL IDENTIFICATION TAGS

The identification tag for each valve shall be recessed in the face of the control handle. All discharges shall have color-coded plastic identification tags, with each discharge having its own unique color. Color-coding shall include the labeling of the outlet and the drain for each corresponding discharge.

PUMP PANEL FINISH

All stainless panels used in the construction of the pump house shall have a brushed finish.

CONTROLS AND GAUGES

The following shall be provided on the pump and gauge panels in a neat and orderly fashion. The gauge panel shall include the following:

PRESSURE GOVERNOR, MONITORING, and MASTER PRESSURE DISPLAY

Fire Research InControl series TGA400-A00 pressure governor and monitoring display kit shall be installed. The kit shall include a control module, intake pressure sensor, discharge pressure sensor, and cables. The control knob shall be 2" in diameter with no mechanical stops, have a serrated grip, and a red idle push button in the center. It shall not extend more than 1-3/4" from the front of the control module. Inputs for monitored information shall be from a J1939 databus or independent sensors. Outputs for engine control shall be on the J1939 databus or engine specific wiring.

The following continuous displays shall be provided:

- Pump discharge; shown with four daylight bright LED digits more than 1/2" high
- Pump Intake; shown with four daylight bright LED digits more than 1/2" high

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Pressure / RPM setting; shown on a dot matrix message display
Pressure and RPM operating mode LEDs
Throttle ready LED
Engine RPM; shown with four daylight bright LED digits more than 1/2" high
Check engine and stop engine warning LEDs
Oil pressure; shown on a dual color (green/red) LED bar graph display
Engine coolant temperature; shown on a dual color (green/red) LED bar graph display
Transmission Temperature; shown on a dual color (green/red) LED bar graph display
Battery voltage; shown on a dual color (green/red) LED bar graph display.

The dot-matrix message display shall show diagnostic and warning messages as they occur. It shall show monitored apparatus information, stored data, and program options when selected by the operator. All LED intensity shall be automatically adjusted for day and night time operation.

The program shall store the accumulated operating hours for the pump and engine to be displayed with the push of a button. It shall monitor inputs and support audible and visual warning alarms for the following conditions:

- High Battery Voltage
- Low Battery Voltage (Engine Off)
- Low Battery Voltage (Engine Running)
- High Transmission Temperature
- Low Engine Oil Pressure
- High Engine Coolant Temperature
- Out of Water (visual alarm only)
- No Engine Response (visual alarm only)

The program features shall be accessed via push buttons and a control knob located on the front of the control panel. There shall be a USB port located at the rear of the control module to upload future firmware enhancements.

Inputs to the control panel from the pump discharge and intake pressure sensors shall be electrical. The discharge pressure display shall show pressures from 0 to 600 psi. The intake pressure display shall show pressures from -30 in. Hg to 600 psi.

The governor shall operate in two control modes, pressure and RPM. No discharge pressure or engine RPM variation shall occur when switching between modes. A throttle ready LED shall light when the interlock signal is recognized. The governor shall start in pressure mode and set the engine RPM to idle. In pressure mode the governor shall automatically regulate the discharge pressure at the level set by the operator. In RPM mode the governor shall maintain the engine RPM at the level set by the operator except in the event of a discharge pressure increase. The governor shall limit a discharge pressure increase in RPM mode to a maximum of 30 psi. Other safety features shall include recognition of no water conditions with an automatic programmed response and a push button to return the engine to idle.

The pressure governor, monitoring and master pressure display shall be programmed to interface with a specific engine.

PRESSURE GAUGES

Each line pressure gauge shall be mounted immediately above the control for the corresponding valve. The individual line pressure gauges for the discharges shall be 2-1/2" in diameter with white dial face gauges with black lettering and markings. The gauges shall be a compound style gauge with a



vacuum/pressure range of 0 - 400 psig.

The gauges shall be fluid filled with pulse and vibration dampening Interlube to lubricate the internal mechanisms to prevent lens condensation and to ensure proper operation to -40 degrees F. The cases shall be temperature compensated with an internal breathing diaphragm to permit fully filled cases and to allow a rigid lens with a distortion free viewing area. The gauge accuracy for the gauge shall be plus or minus 2% mid-scale, plus or minus 3% balance, per ANSI B40.1, Grade 1A.

To prevent internal freezing and to keep contaminants from entering the gauge, the stem and bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem. A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage.

All line pressure gauges shall be mounted adjacent to the corresponding discharge control tee handles.

LED GUAGE LIGHTING

The 2-1/2" pressure gauges shall be equipped with LED back lighting.

PUMP PANEL LIGHTING

The pump operator's panel shall be supplied with a LED light system. LED strip lights with a stainless steel hood shall be mounted across the top of the pump panel gauges and controls.

LED strip lights with a stainless steel hood shall be provided on each side of the pump module above the side panels.

All pump module lighting shall illuminate when the parking brake is engaged.

DRAIN DISCHARGES

The 3/4 inch drain valves shall be equipped with 90-degree fittings to direct the discharge water beneath the pump module away from the pump operator's panel.

AIR HORN ACTIVATION SWITCH

A switch shall be located on the pump panel to activate the chassis air horn. The switch shall be a momentary pushbutton type switch with a red cover. The switch shall be supplied with the proper identification label.

WATER TANK INDICATOR

Fire Research TankVision model WLA200-A00 tank indicator kit shall be installed. 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 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 aluminum, 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, and a data link to connect remote indicators. Low water warnings shall include flashing LEDs at 1/4 tank, down chasing LEDs when the tank is almost

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empty, and an output for an audio alarm.

The indicator shall receive an input signal from an electronic pressure sensor. The sensor shall be mounted from the outside of the water tank near the bottom. No probe shall place on the interior of the tank. Wiring shall be weather resistant and have automotive type plug-in connectors.

PUMP MANUFACTURER AND MODEL

The pump shall be a Hale Q-FLO Plus model midship pump.

PUMP CONSTRUCTION AND ASSEMBLY

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. Pump shall be free from objectionable pulsation and vibration.

The pump body and related parts shall be of fine grain alloy cast iron, with a minimum tensile strength of 30,000 PSI. All moving metal parts in contact with water shall be of high quality bronze or stainless steel. Pump body shall be vertically split on a single plane for easy removal of entire impeller assembly including wear rings and bearings without disturbing piping or the mounting of the pump in chassis. Pump shaft to be rigidly supported by three bearings for minimum deflection. The bearings shall be heavy-duty, deep groove ball bearings in the gearbox and they shall be splash lubricated.

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 of sufficient size and design to provide ample reserve capacity utilizing minimum horsepower.

Removable, non-corrosive material clearance rings shall be provided.

The pump shaft shall be heat-treated, electric furnace, corrosion resistant stainless steel. Pump shaft must be sealed with double-lip oil seal to keep road dirt and water out of gearbox.

PUMP TRANSMISSION

The pump transmission shall be assembled and tested at the pump manufacturer's factory. Pump transmission shall be of sufficient size to withstand up to 16,000 lbs. ft. of torque in road operating conditions. The pump transmission shall be designed with ample capacity for lubrication reserve and to maintain the proper operating temperature.

The transmission drive shafts shall be of heat-treated chrome nickel steel and at least 2-3/4 inches in diameter on both the input and output drive shafts. They shall withstand the full torque of the engine. All gears drive and pump, shall be of highest quality electric furnace chrome nickel steel. Bores shall be ground to size and teeth integrated, shaved, hardened and ground 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 thrust.

The pump ratio shall be selected by the apparatus manufacturer to give maximum performance with the engine and transmission selected. If gearbox 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.

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Three green warning lights shall be provided to indicate to the operator when the pump has completed the shift from Road to Pump position. Two green lights to be located in the truck driving compartment and one green light on pump operator's panel adjacent to the throttle control. All lights to have appropriate identification/instruction plates.

PUMP RATING AND TEST REQUIREMENTS

The pump shall be of a size and design to mount on the chassis rails of commercial and custom truck chassis, and have the capacity of 1250 gallons per minute (U.S. GPM), NFPA1901 rated performance. The pump shall deliver the percentage of rated discharge at pressures indicated below:

- 100 percent of rated capacity at 150 pounds net pressure
- 70 percent of rated capacity at 200 pounds net pressure
- 50 percent of rated capacity at 250 pounds net pressure
- 100 percent of rated capacity at 165 pounds net pressure

The entire pump shall be assembled 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.

ALTITUDE REQUIREMENTS

The apparatus shall be designed to meet the specified rating at 0 to 2000' altitude.

PRIMING PUMP

The priming pump shall be a positive displacement vane type, oil-less, electrically driven, and conform to standards outlined in NFPA 1901. One priming control shall both start the priming motor and open the priming valve.

PNEUMATIC PUMP SHIFT

The pump shift shall be air operated and shall incorporate an air double action piston to shift from road to pump and back. A manual or electric operated pump shift mechanism is not acceptable. The pump shift switch shall be mounted in the cab and identified as "AIR PUMP SHIFT" and include instructions permanently inscribed on the pump shift switch plate. The in-cab operating valve uses a spring loaded locking collar to prevent it from accidentally being moved.

The pump shift control assembly shall incorporate an indicating light system, which will notify the operator when the shift has been completed to PUMP and when the chassis transmission is in correct pumping gear.

The switch that activates the lights must be mounted on the pump transmission and positioned so that the pump shift arm activates the switch only when the shift arm has completed its full travel into PUMP position. An additional indicator light shall be provided adjacent to the throttle control at the pump operator's panel to indicate a completion of the pump shift.

MECHANICAL SEAL

The fire pump shall be provided with a mechanical pump seal. One (1) only required on the suction,

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inboard, side of the pump. The mechanical seal shall be two inches in diameter and shall be spring loaded, maintenance free and self-adjusting. Mechanical seal construction shall be a carbon sealing ring, stainless steel coil spring, Viton rubber boot, and a tungsten carbide seat with Teflon backup seal.

ANODE SYSTEM

To reduce the effect of galvanic action the pump shall be equipped with two alloy (2) anodes. One anode is to be installed on the inlet (suction) side of the system and one anode is to be installed on the pressure (outlet) side of the system.

The anode brass cap is to be drilled with a 1/8" diameter hole to provide an indicator when the anode alloy element is to be replaced.

SUCTION PRESSURE RELIEF VALVE

Task Force Tips model #A1820 pressure relief valve shall be provided. The valve shall have an easy to read adjustment range from 90 to 300 PSI in 90, 125, 150, 200, 250, 300 PSI increments. For corrosion resistance the cast aluminum valve shall be hardcoat anodized with a powder coat interior and exterior finish. The valve shall be configured for a Hale pump, and have a 2" male NPT threaded discharge outlet. The unit shall be covered by a five-year warranty.

The discharge side of the intake relief valve shall be plumbed to the right side below the running boards, away from but, visible to the pump operator, and shall terminate with an unthreaded pipe. The adjustment control shall be located behind the street side pump panel.

MASTER DRAIN

The apparatus shall be equipped with a Class 1 Manual Master Pump Drain for draining of the lower pump cavities, volute and selected water-carrying lines and accessories. The all brass and stainless steel construction allows for operation up to 600 psi.

PUMP CERTIFICATION TEST

The apparatus shall be certified to the requirements of NFPA 1901 prior to delivery of the completed apparatus. The certificate shall be furnished with the apparatus on delivery.

FIRE PUMP WARRANTY

Standard 5 year warranty (Parts and Labor for the first two years, parts only years 3 - 5) See Hale warranty for full details.

ELECTRONIC PUMP MANUALS

Two (2) sets of electronic fire pump service and operation manuals shall be provided with the completed apparatus.

LEFT SIDE STEAMER INLET

There shall be one (1) steamer inlet furnished on the left side pump panel. The suction inlet shall have 6" NST thread. The suction inlet shall have a removable strainer provided inside the external inlet.

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A six (6) inch chrome plated cap with long handles shall be supplied. The cap shall be capable of withstanding 500 PSI and be trimmed with the apparatus manufacturer's logo in the center of the cap.

RIGHT SIDE STEAMER INLET

There shall be one (1) steamer inlet furnished on the right side pump panel. The suction inlet shall have 6" NST thread. The suction inlet shall have a removable strainer provided inside the external inlet.

A six (6) inch chrome plated cap with long handles shall be supplied. The cap shall be capable of withstanding 500 PSI and be trimmed with the apparatus manufacturer's logo in the center of the cap.

LEFT SIDE INTAKE

There shall be an intake located on the left (street) side rear of the pump and shall contain: A 2-1/2" intake shall be provided. The inlet shall have a 2-1/2" quarter-turn swing-out valve. The inlet shall be provided with a 2-1/2" NST female swivel that extends through the pump panel.

The inlet valve shall have a push-pull type control handle located adjacent to the valve.

One (1) 2-1/2" chrome plated rocker lug plug with chain shall be supplied.

LEFT SIDE DISCHARGE #1

The forward discharge on the left (street) side of the pump panel shall contain: A 2-1/2" discharge shall be provided. The discharge outlet shall have a 2-1/2" quarter-turn swing-out valve. The discharge shall be provided with chrome plated 30-degree discharge elbow with 2-1/2" NST male threads that extends through the pump panel.

One (1) chrome plated, Class 1, 2-1/2" rocker lug cap with lug vent and chain shall be furnished.

LEFT SIDE DISCHARGE #2

The second from the forward discharge on the left (street) side of the pump panel shall contain: A 2-1/2" discharge shall be provided. The discharge outlet shall have a 2-1/2" quarter-turn swing-out valve. The discharge shall be provided with chrome plated 30-degree discharge elbow with 2-1/2" NST male threads that extends through the pump panel.

One (1) chrome plated, Class 1, 2-1/2" rocker lug cap with lug vent and chain shall be furnished.

RIGHT SIDE DISCHARGE #3

The forward discharge on the right (curb) side of the pump panel shall contain: A 2-1/2" discharge shall be provided. The discharge outlet shall have a 2-1/2" quarter-turn swing-out valve. The discharge shall be provided with chrome plated 30-degree discharge elbow with 2-1/2" NST male threads that extends through the pump panel.

One (1) chrome plated, Class 1, 2-1/2" rocker lug cap with lug vent and chain shall be furnished.

RIGHT SIDE DISCHARGE #4

The second from the forward discharge on the right (curb) side of the pump panel shall contain:

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A 3" discharge shall be provided. The discharge outlet shall have a 3" quarter-turn swing-out valve. The discharge shall be provided with chrome plated 30-degree discharge elbow with 3" NST male threads that extends through the pump panel.

One (1) chrome plated, Class 1, 3" rocker lug cap with lug vent and chain shall be furnished.

REAR PRECONNECT - RIGHT SIDE

There shall be one (1) 2-1/2" discharge outlet located on the passenger side rear of the body below the hose bed. The discharge outlet shall be plumbed with 2-1/2" ID, Schedule 40 stainless steel pipe and high pressure hose and have a 2-1/2" quarter-turn, swing out valve with control on pump operator's panel. There shall be a chrome plated 2-1/2" NST adapter that extends through the rear of the body. The discharge shall be provided with a chrome plated 30-degree discharge elbow.

The water tank shall be provided with one (1) 4" sleeve from the front of the tank to the rear of the tank. The sleeve shall provide access for either rear intake or rear discharge piping.

One (1) chrome plated, Class 1, 2-1/2" rocker lug cap with lug vent and chain shall be furnished.

DELUGE RISER

A 3" diameter deluge riser shall be installed above the pump. The deluge outlet shall be plumbed with a 3" quarter-turn, swing out valve and 3" ID, Schedule 40 stainless steel piping. Deluge outlet shall have control on pump operator's panel.

A 1/4 turn drain valve shall be installed. The valve shall be brass with 3/4" NPT female inlet and outlet thread.

The deluge piping shall terminate with an NPT male thread. A cap plug is to be provided on the end of the piping to protect the threads if no deck gun is installed at the factory.

The 3" discharge outlet shall have a 3" slow close quarter-turn swing out valve. The discharge shall be plumbed with 3" Schedule 40 stainless steel piping with 3" NPT male thread. Control of outlet shall be accomplished using a manual, locking control on pump operator's panel.

PUMP DUNNAGE AREA DIMENSIONS

The area behind of the crosslays shall be the dunnage area of the pump house. This area is where the deckgun riser if so equipped protrudes above the pump module. This area shall be enclosed with approximate dimensions of 68" wide x 19" deep x 32.25" front to back.

DOUBLE CROSSLAY HOSEBED

The crosslays shall be arranged on top of the pump module with the #1 crosslay toward the front of the pump house and the #2 crosslay immediately behind the first.

#1 CROSSLAY - DOUBLE STACK

The #1 crosslay shall be equipped with a 1-1/2" male NST outlet. The crosslay shall be plumbed with 2" Schedule 40 stainless steel high pressure pipe. A 2" quarter turn ball valve shall be used to control water

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flow. The outlet shall be equipped with a 2" polished stainless steel 90 degree swivel with 1-1/2" male NST thread located in the hosebed.

This crosslay bed shall be capable of carrying a minimum of two hundred feet (200') of 1-3/4" double jacketed hose. The double stack crosslay hosebed shall have inside dimensions of 8" wide x 19" tall x 72" wide.

The crosslay valve control shall be mounted on the operator's panel.

A 1/4 turn drain valve shall be installed. The valve shall be brass with 3/4" NPT female inlet and outlet thread.

CROSSLAY DIVIDER

A crosslay divider shall be provided between the #1 and #2 crosslay. The divider shall be constructed from 1/4" thick abraded aluminum plate mounted on a base T-extrusion that provides lower support the length of the divider. There shall be a hand hole on each side of the divider to assist the firefighter.

#2 CROSSLAY - DOUBLE STACK

The #2 crosslay shall be equipped with a 1-1/2" male NST outlet. The crosslay shall be plumbed with 2" Schedule 40 stainless steel high pressure pipe. A 2" quarter turn ball valve shall be used to control water flow. The outlet shall be equipped with a 2" polished stainless steel 90 degree swivel with 1-1/2" male NST thread located in the hosebed.

This crosslay bed shall be capable of carrying a minimum of two hundred feet (200') of 1-3/4" double jacketed hose. The double stack crosslay hosebed shall have inside dimensions of 8" wide x 19" tall x 72" wide.

The crosslay valve control shall be mounted on the operator's panel.

DRAIN VALVE

A 1/4 turn drain valve shall be installed. The valve shall be brass with 3/4" NPT female inlet and outlet thread.

CROSSLAY HOSE GUIDES

Brushed stainless steel hose guides shall be provided on the left and right side of the crosslays.

CROSSLAY HOSEBED COVER

A vinyl coated nylon hosebed cover shall be provided over the crosslay hosebeds. The vinyl crosslay cover shall be Midnight Black in color.

ELKHART BALL VALVES

All discharge ball valves shall be manual control 1/4 turn Elkhart heavy duty swing out valve with stainless

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steel ball unless specified otherwise.

TANK TO PUMP

The tank to pump piping shall be capable of delivering water to the pump at a rate of five hundred (500) gallons per minute. This flow shall be sustained while pumping to a minimum of 80% of the certified tank capacity with the apparatus on level ground.

The tank to pump line shall run from the pump to the front face of the water tank and down into the tank sump. A rubber coupling shall be included in this line to prevent damage from vibration or chassis flexing. The tank to pump line shall be 3" I.D. piping with a 3" ball valve.

TANK REFILL

A 1-1/2" tank refill line shall be provided using a quarter-turn full flow ball valve controlled from the pump operator's panel with a manual locking handle. The tank refill shall be plumbed with high pressure flexible piping and high pressure flexible piping stainless steel couplings.

HEAT EXCHANGER DISCHARGE

A gated discharge line shall be installed to provide water from the fire pump to the chassis supplied heat exchanger to assist in engine cooling during pumping operations. The heat exchanger line shall be controlled at the pump operator's panel with a Class 1 valve.

WATER TANK CONSTRUCTION

The tank shall have a rated capacity in U.S. gallons, complete with lifetime warranty. The tank manufacturer shall mark the tank and furnish notice that indicates proof of warranty. The purpose of the notice is to inform department personnel who store or use the tank that the unit is under warranty.

The tank shall be constructed of 1/2" thick Polyprene & Mac226 sheet stock. This material shall be non-corrosive stress relieved thermoplastic, white in color and UV stabilized for maximum protection. The tank shall be of a special configuration and is so designed to be completely independent of the body and compartments. All exterior tank joints and seems shall be extrusion welded and/or contain the Bent Edge™ and tested for maximum strength and integrity. The top of the tank is fitted with removable lifting eyes designed with a 3-to-1 safety factor to facilitate easy removal.

The transverse and longitudinal swash partitions shall be manufactured of Polyprene & Mac226 material. 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 and meet NFPA rules. All swash partitions interlock with one another and are welded to each other as well as to the walls and floor of the tank.

TANK SUMP AND CONNECTIONS

There shall be one (1) sump standard per tank. The sump shall be constructed of white Polyprene & Mac226 and be located in the left front corner of the tank, unless specified otherwise. On all tanks that require a front suction, a schedule 40 polypropylene pipe shall be installed that will incorporate a dip tube from the front of the tank to the sump location. The sump shall have a minimum 3" FNPT threaded outlet on the bottom for a drain plug. This shall be used as a combination clean out and drain. All tanks shall have an anti-swirl plate located above the dip tube.

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There will be two (2) standard tank outlets: one for tank to sump suction line, and one for a tank fill line. 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 1,000 GPM. The addition of rear suction fittings, nurse valve fittings, dump valve fittings, and through tank sleeves to accommodate rear discharge piping must be specified. All auxiliary outlets and inlets must meet N.F.P.A. 1900 guidelines in effect at the time of manufacture.

TANK MOUNTING

A tank mounting cradle shall be supplied. The tank mounting cradle shall consist of a minimum of seven (7) crossmembers and two (2) full tank length longitudinal members. The tank shall rest on the tank mounting subframe, and shall be insulated from the sub-frame with a 2-1/2" wide rubber insulator. The tank shall sit cradle-mounted using four (4) corner angles of 8" x 8" x 4" x .250" welded directly to the tank sub-frame. The angles shall keep the tank from shifting left to right or front to rear. The tank is designed on the free-floating suspension principal and shall not require the use of hold downs. The tank shall be completely removable without disturbing or dismantling the apparatus body structure. The hosebed cross-braces shall act as water tank retainers. The water tank cradle shall be designed to be completely independent of the apparatus body to eliminate torsional stress loading in the body.

The tank cradle shall be finish painted to match the chassis frame.

PURCHASE INTENT

The entire body design shall be of a laser machined, bolted design to allow for ease of removal for repair or replacement, without cutting welds.

APPARATUS BODY DESIGN AND CONSTRUCTION

The apparatus body shall be built of stainless steel and shall be designed exclusively for Fire Service use. The overall body width shall be 100 inches wide and shall be constructed in accordance with current NFPA requirements. All metal work shall be free of sharp edges, objects or corners.

The body design shall be fully tested with proven engineering and test techniques such as finite element analysis, stress coating, and strain gauging. Engineering and test techniques shall have been performed with special attention given to fatigue life and structural integrity of compartments and body support system.

The apparatus body shall be designed with the use of parametric modeling engineering software to ensure proper design of panel cuts and alignment of holes in mating parts. The entire apparatus body shall be a precision laser machined, bolted construction, properly reinforced with integral flanges eliminating the need for additional structural shapes. Hose body fabrications shall be free of all internal projections which might injure personnel or fire hose.

The pump module is to be completely separate from the main body to prevent damage due to flexing.

MODULAR BODY REQUIREMENTS

The body shall be completely modular in design allowing transfer of body components to a new chassis in the event of an accident or wear. Body components shall be removable from chassis without cutting or bending. The modular design shall also facilitate ease of repair or replacement of major or minor body

HME CommFox Specifications for the City of Bisbee



parts. The mounting of the apparatus body shall be separate and distinct from the water tank mounting and the pump module mounting.

All body panels are to be laser machined on a CAM controlled laser to ensure accuracy (+/- .010"). This shall greatly enhance assembly and matching of repair parts. The body compartment floors, rear walls and roof areas shall be constructed of 12-gauge austenitic stainless steel. The vertical front and rear walls are designed with 14-gauge stainless steel. These front and rear walls are designed as a structural beam with the inclusion of the design encompassing a front and rear design that allows for installation of telescoping lights.

Interior and unexposed stainless steel panels shall be #4B finish to eliminate the need for high maintenance painted surfaces in the compartments. All exterior stainless steel panels shall have #4B finish.

The entire body shall be fabricated using precision holding fixtures to ensure accurate dimensions. Body front and rear vertical flanges shall be triple broken, providing a mounting area for rear hand rails. Major body components shall consist of right and left body sides, and rear facing compartments.

The front and rear vertical corners of the apparatus body shall be recessed to provide a mounting area for vertical hand rails and telescoping light poles. Two (2) handrails shall be provided at the left and right sides of the apparatus body mounted vertically. A full width handrail shall be mounted at the rear of the body below the hosebed.

COMPARTMENT ROOF CONSTRUCTION

Each compartment top shall have a bolt in 12-gauge stainless roof section for supporting roof loads of up to 500 pounds per square foot without permanent roof deformation. The stainless roof sections shall attach the compartment rear wall and compartment vertical sides through a fastened joint creating a full perimeter compartment attachment of the stainless roof section.

REAR FRAME EXTENSION

The rear chassis frame extension system shall consist of a interwoven dual .625" thick steel drop frame extensions with a transverse 4" x 3" x .375" thick structural channel, and dual laminated .188" thick rear compartment and tailboard support tapered angles on each side of apparatus.

The rear frame extension shall be bolted to the chassis frame utilizing Grade 8 bolts and Grade C locknuts with hardened washers. For ease in replacement of damaged components in an accident there shall be no welding of components to the chassis frame.

Two (2) tow eyes with an eye diameter of not less than 3.5" shall be attached directly to the chassis frame extensions. The tow eyes shall be fabricated of .625" thick steel.

BODY MOUNTING SYSTEM

The front body support system shall be an integral design with .250" thick steel deep section crossmember across the top of the chassis frame. The deep section crossmember shall be attached to the right side and the left side lower front compartment weldments with eight (8) grade 8, 3/8 inch diameter bolts on each side of the apparatus. The front crossmember shall be attached to the chassis by means of an elastomer spring mounting system with limited travel.

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The lower portion of this spring mounting system shall be an integral part of the pump module frame mounting system. This design allows for maximum chassis flexing without undue stress transfer to the apparatus body.

The right and left side rear compartments shall be attached to a stainless steel rear body support. The stainless steel support shall be attached to the chassis frame extensions by means of an elastomer spring mounting system to form a modular integral body support system.

The apparatus body shall not rest upon the chassis truck rails and must be separated entirely from the steel frame of the chassis to prevent galvanic action.

COMPARTMENT INTERIOR FINISH

For better interior visibility, to reflect light better, ease of maintenance and prevent the masking of poor welds and questionable workmanship the interior of the body compartments shall remain uncoated.

EXTERIOR ROOF FINISH

The top of the compartments shall be brushed stainless steel. The roof shall contain 'Not a Stepping Surface' labeling.

REAR TAILBOARD

A rear tailboard 12" deep shall be provided at the rear from "Laser Grip" stainless steel meeting NFPA 1901 step requirements. The tailboard shall provide protection for the side body compartments and shall provide mounting for the rear ICC marker lights. It shall be bolted to the rear support structure.

CHASSIS FRAME EXTENSIONS

There shall be a rear chassis drop frame extension to provide frame support for the rear of the apparatus body. This extension is to be bolted to the truck chassis as an integral part of the truck frame assembly and is to include rear tow eyes, crossmember and tailboard reinforcement.

The rear frame extension shall be finish painted to match the chassis frame.

COMPARTMENT DESIGN AND CONSTRUCTION

All compartments shall be manufactured from 12-gauge stainless steel with the vertical front and rear corner walls from 14-gauge, shall be of sweep out design and shall be bolted together. Stainless recessed round head bolts and stainless aircraft style "ESNA" nuts shall be applied with proper torque rating for each fastener. This type of construction shall greatly enhance the strength and ease of parts replacement in the event of damage and future modifications. Wherever possible, body bolts shall be hidden from plain view for appearance and ease of apparatus cleaning.

COMPARTMENT VENTILATION

Each compartment shall be provided with a laser cut louver to provide adequate ventilation.

WATER TANK CAPACITY

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The water tank shall be "T" shaped, with the upper portion of the tank being wider than the base and shall have a capacity of 1000 US gallons.

TANK LID & FILL TOWER

The tank shall have a combination vent and fill tower. The fill tower shall be constructed of 1/2" thick Polyprene & Mac226 and shall be a minimum dimension of 10"x 14" outer perimeter. The tower shall be located in the center front of the tank unless otherwise specified by the purchaser. The tower shall have a 1/4" thick removable Polyprene & Mac226; screen and a Polyprene & Mac226 hinged-type cover. Inside the fill tower, there shall be a combination vent overflow pipe. The vent overflow shall be a minimum of schedule 40 pipe with a minimum ID of 4" that is designed to run through the tank, and shall be piped behind the rear axle beneath the tank.

The tank cover shall be constructed of recessed 1/2" thick Polyprene & Mac226, stress relieved, UV stabilized material. A minimum of two lifting dowels shall be drilled and tapped to accommodate the lifting eyes.

OVERFLOW AND VENT PIPE

The fill tower shall be fitted with an integral 4" ID, Schedule 40 PVC combination overflow/vent pipe running from the fill tower through the tank to a 4" coupling flush mounted into the bottom of the tank to allow water to overflow beneath the chassis.

BODY MODULE CAPACITIES AND HOSEBED HEIGHT

The total capacity of the body module exterior compartments shall be 156 cubic feet.

The total capacity of the body hosebed shall be approximately 72 cubic feet.

The hosebed shall be approximately 63" from the bumper.

The body shall have an overall length of 148".

LADDER STORAGE TANK COMPARTMENT

The water tank shall have a storage opening through the tank for ladder storage inside the apparatus body. This compartment shall extend from the rear of the tank completely through the tank to allow the ladders to extend into the pump house for storage.

The compartment shall store one (1) 24' two-section ladder, one (1) 14' roof ladder, one (1) 10' folding ladder, up to three (3) pike poles.

UPPER THRU TANK COMPARTMENT

There shall be a second thru tank storage area with inside dimensions of 9 inches high x 28 inches wide x through the end of the tank.

The multipurpose storage compartment above the ladders shall be large enough in which to safely store three (3) lengths of 6" suction hose or various long handled tools.

HINGED DOOR LADDER STORAGE - REAR



The rear through the tank compartment shall be provided with a horizontally hinged door with gas shocks and a polished stainless steel 1/4" piano hinge. The hinged compartment door shall be flush style so that the entire door fits flush against the apparatus body rear wall.

The door shall be provided with a turn latch with a chrome "D" ring door handle with a 5-degree bend for easier grasping of the door handle with gloved hands.

ROOF LADDER

One (1) 14' Duo-Safety model 775-A, aluminum channel rail roof ladder with folding roof hooks shall be provided with the apparatus.

ATTIC LADDER

One (1) 10' Duo-Safety model 585-A aluminum folding attic ladder shall be provided with the apparatus.

EXTENSION LADDER

One (1) 24' two-section Duo-Safety model 900A solid beam, aluminum extension ladder shall be provided with the apparatus.

APPARATUS BODY HOSEBED

The hose bed shall be constructed in such a manner that will prevent damage to fire hose. The hosebed shall comply with the current NFPA requirements. The interior of the hosebed shall be free of projections such as nuts, sharp edges or brackets that may damage hose. The hosebed and walls shall be manufactured from stainless steel.

An aluminum extrusion shall be installed over the rear opening of the hosebed to protect the body from wear. The hosebed bottom shall be fitted with removable slatted, ribbed 6" heavy-duty extruded aluminum floorboards.

ADJUSTABLE HOSE BED DIVIDER

One (1) adjustable hosebed divider shall be provided. Each divider shall be fabricated from .250" thick smooth aluminum plate, 5052-H32 alloy. The rear end of each divider shall have a 3" radius corner and shall be sanded and deburred to prevent damage to hose.

There shall be two hand hold openings provided. One (1) at the rear in a vertical position and one (1) approximately 24 inches in from the rear in a horizontal position.

HOSEBED COVER

A black vinyl hosebed cover shall be provided and designed to cover the entire main hosebed area. The cover shall be installed with "stretch cord type" fasteners along each side of the hosebed. A sand filled flap shall be incorporated into the rear edge of the cover.

The hosebed cover rear flap shall have a positive locking device to meet the requirements of NFPA.

LEFT SIDE COMPARTMENT DIMENSIONS



FORWARD OF WHEEL WELL

There shall be one (1) rescue style, full height, and split depth compartment ahead of the rear wheels. It shall have approximate dimensions of 48" wide x 63" high x 12" deep in the upper section and 24" deep in the lower section.

ABOVE WHEEL WELL

There shall be one (1) high side reduced depth compartment centered over the rear wheels. It shall have approximate dimensions of 52" wide x 33" high x 12" deep.

REAR OF WHEEL WELL

There shall be one (1) rescue style, full height, and split depth compartment behind the rear wheels. It shall have approximate dimensions of 43" wide x 63" high x 12" deep in the upper section and 24" deep in the lower section.

ROLLUP DOOR CONSTRUCTION - LEFT SIDE

All left side compartments shall be provided with Gortite roll up doors. The roll up doors shall be constructed of double sided aluminum extrusions connected with a ball and socket joint. The extrusions shall be 1-3/8" wide x 3/8" thick with satin anodized finishing. A flexible EDPM extrusion shall be provided between each slat to insure a weather tight seal. Aluminum extrusions shall be individually replaceable without disassembling the entire door by removing push out clips on each end.

Side channels for each door to ride in shall be provided with santoprene seals to prevent dirt and moisture from entering the exterior compartment. A single piece top drip rail shall be provided with a santoprene seal to prevent dirt and moisture from entering the compartment when the door is fully closed. The bottom of each door shall also be provided with a santoprene seal. All nonmetallic parts shall be glass filled nylon.

The left side door latches shall be non-locking stainless steel lift bars and shall be provided with a magnetic door ajar switch system.

FENDER SIDE SKIRTS

There shall be stainless steel fender side skirts located in the area of the rear wheels. The design of the fender sides shall be a minimal length to provide maximum compartment space in the apparatus.

FUEL FILL - SIDE BODY

The fuel fill shall be located in the rear fender area on the left side of the apparatus body. The spring loaded fuel fill door shall have "Diesel Fuel" laser cut in the face of the door. There shall be a vent line from the fuel tank to beneath the fuel cap to aid in fueling of the truck.

BODY FENDERS - POLISHED

The apparatus body fenders shall be made from 16 gauge polished stainless steel and shall be rolled, die stamped and fully removable. The stainless steel fenders and stainless fender liners shall be fastened with stainless bolts and ESNA nuts to the outer fender panel.



REAR AXLE MUD FLAPS

Two (2) black, anti-sail, mud flaps shall be mounted behind the rear wheels.

SCBA BOTTLE COMPARTMENTS

Seven (7) SCBA bottle tube compartments shall be provided, three (3) in the left side rear wheel well area and four (4) in the right side rear wheel area. Each compartment shall be constructed of gray roto molded storage compartment to provide SCBA scuff protection. A door seal shall be provided at the perimeter of the SCBA compartment. The doors shall be brushed stainless steel with a push button trigger latch.

A one-inch (1") wide loop of red webbing shall be installed in each SCBA compartment to prevent the bottle from sliding out of the compartment in the event the door is not latched for travel. The loop shall be mounted, centered in the compartment and shall hang within one-inch (1") of the compartment floor to allow the bottle to pass by the strap when the bottle is placed in the compartment. The strap shall loop over the valve.

RIGHT SIDE COMPARTMENT DIMENSIONS

FORWARD OF WHEEL WELL

There shall be one (1) rescue style, full height, and split depth compartment ahead of the rear wheels. It shall have approximate dimensions of 48" wide x 63" high x 12" deep in the upper section and 24" deep in the lower section.

ABOVE WHEEL WELL

There shall be one (1) high side reduced depth compartment centered over the rear wheels. It shall have approximate dimensions of 52" wide x 33" high x 12" deep.

REAR OF WHEEL WELL

There shall be one (1) rescue style, full height, and split depth compartment behind the rear wheels. It shall have approximate dimensions of 43" wide x 63" high x 12" deep in the upper section and 24" deep in the lower section.

ROLLUP DOOR CONSTRUCTION - RIGHT SIDE

All right side compartments shall be provided with Gortite roll up doors. The roll up doors shall be constructed of double sided aluminum extrusions connected with a ball and socket joint. The extrusions shall be 1-3/8" wide x 3/8" thick with satin anodized finishing. A flexible EDPM extrusion shall be provided between each slat to insure a weather tight seal. Aluminum extrusions shall be individually replaceable without disassembling the entire door by removing push out clips on each end.

Side channels for each door to ride in shall be provided with santoprene seals to prevent dirt and moisture from entering the exterior compartment. A single piece top drip rail shall be provided with a santoprene seal to prevent dirt and moisture from entering the compartment when the door is fully closed. The bottom of each door shall also be provided with a santoprene seal. All nonmetallic parts shall be glass filled nylon.

The right side door latches shall be non-locking stainless steel lift bars and shall be provided with a

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magnetic door ajar switch system.

REAR COMPARTMENT DIMENSIONS

There shall be one (1) half-height compartment at the rear of the body. It shall have approximate dimensions of 48" wide x 29" high x 22" deep.

HINGED DOOR CONSTRUCTION - REAR COMPARTMENT

The rear compartment shall be provided with hinged doors. The hinged compartment doors shall be the style so that the entire door fits flush against the apparatus body sides. All doors shall be provided with a high quality, double seal type weather stripping to prevent moisture and dust from entering the exterior compartments.

Each door shall be double pan design with the outer door material being aluminum plate with a stainless inner liner that shall have a natural finish to provide reflective qualities during night operations. The body compartment shall have one (1) laser cut, louvered vent to provide the proper airflow inside the compartments.

The rear doors shall have gas shocks. A polished stainless steel 1/4" piano hinge shall be provided for each door.

The right side door latches shall be Hansen slam latches, with a chrome "D" ring with a 5-degree bend for easier grasping of each door handle with gloved hands.

REAR BODY REFLECTIVE CHEVRON STRIPING

The rear-facing vertical surfaces of the rear taillight panels and the area below the horizontal step, visible from the rear of the apparatus, including the rear compartment doors, shall be equipped with six (6) inch wide retroreflective striping in a chevron pattern sloping downward and away from the centerline of the vehicle at an angle of 45 degrees.

Each stripe in the chevron shall be a single color alternating between red (3M #-82) and yellow (3M # - 81).

BODY RUBRAIL - POLISHED STAINLESS STEEL

The apparatus body shall have a bolt on extruded, polished stainless steel rub rail affixed to the side beneath each door area. The rub rail shall provide additional strength and protection and shall be constructed of 3/8" x 1-1/2" stainless steel fastened with stainless steel fasteners. Each rub rail shall be attached to the apparatus body with standoff spacers made from 1" diameter UHMW Polyethylene bar stock.

STAINLESS STEEL APPARATUS BODY PAINTED

The following apparatus body components shall be painted job color.

- The rear wheel fender panels
- The exterior surface of the hosebed side walls
- The exterior surface of the hosebed / coffin compartment front wall



APPARATUS PAINT WARRANTY

The manufacturer shall provide a limited parts and labor warranty to the original purchaser of the custom built apparatus for a period of sixty (60) months. The warranty period shall commence on the date the vehicle is delivered to the end user. The warranty shall include conditional items listed in the detailed warranty document which shall be provided upon request.

EXTERIOR COMPARTMENT LIGHTING

Two (2) LED strip lights shall be provided for each body compartment. Each body door shall have an automatic compartment light switch.

In addition to the LED strip lights there shall be two (2) 4" round LED lights. The lights shall be mounted in the front wall of compartments L1 and R1. These lights shall illuminate the pump panel area.

REAR WORK LIGHTS - LED

A recess mounted LED strip light with integral guard shall be supplied under the rear intermediate step.

The lights shall be switched on when the parking brake is set and the apparatus is running with the master battery switch in the "ON" position.

UNDERBODY LIGHTING

Underbody ground lights shall be provided under the apparatus body as required by current NFPA 1901. Four (4) 4" round LED ground lights shall be provided at the rear of the apparatus body, two (2) each side, to illuminate under the rear compartments.

There shall also be two (2) 4" round LED ground lights provided at the outer front corners of the apparatus body, one (1) each side, to illuminate the area under the forward compartments and pump panel areas. All underbody ground lights shall be switched on when the parking brake is set and the apparatus is running with the master battery switch in the "ON" position.

FOLDING STEPS

Folding steps shall be provided on the front and rear of the apparatus body. Steps shall be provided and installed per NFPA requirements.

INTERMEDIATE REAR STEP - UPPER FULL WIDTH

An NFPA #1901 compliant "Laser Grip" rear step shall be located just above the rear compartment and span the width of the hosebed. It shall be no less than 8" in depth and fabricated of stainless steel.

INTERMEDIATE REAR STEPS - LOWER

Two (2) rear corner steps, one (1) each side, shall be located adjacent to the rear compartment and shall be no less than 8" in depth and fabricated of "Laser Grip" stainless steel to meet NFPA #1901 step requirements.

REAR HANDRAILS

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Three (3) ribbed, solid stock 1-1/4" diameter, aluminum handrails with chrome plated stanchions shall be supplied and installed at rear of the apparatus body. There shall be two (2) 24" long vertical handrails installed, one (1) each side on the inside of the rear area of the body and one (1) 69" long handrail installed horizontally along the upper edge of the beavertail area.

LIGHTING, REAR HANDRAIL

The horizontal handrail adjacent to the hosebed shall contain integrated LED lighting. The lighting shall be integrated into the grab bar, directed toward the hosebed. The assembly shall be illuminated the same time as the ground lights.

The LED handrail lighting shall be white in color.

HOSEBED FLOODLIGHT

One (1) Unity AG hosebed floodlight shall be mounted at the front right corner of the hosebed. The light shall be controlled from a water proof switch on the lamp head.

APPARATUS BODY ELECTRICAL SYSTEM

All body electrical shall conform to NFPA 1901 latest edition standards. The apparatus shall be equipped with a heavy-duty 12-volt negative ground system.

All 12-volt apparatus wiring shall pass through a heavy duty power disconnect solenoid. The 12-volt control of the power disconnect switch is to be triggered by the Master Battery Disconnect.

The apparatus shall be equipped with a Class1 Es-Key Management System for complete control of the electrical system devices.

The right rear compartment shall house a relay based Power Distribution Module (PDM). The PDM shall contain 12 standard automotive relays. Each relay's output shall be monitored by the Es-Key system to provide true on/off feedback. Each output shall be capable of handling up to 30 amps and be protected by an automatic circuit breaker. The PDM shall be mounted on a removable panel in the left rear compartment with sufficient harness length to allow a technician the ability to remove the PDM and place it on a compartment shelf for diagnostics and service.

All wiring shall be color-coded and function coded to assist the technician in servicing the electrical system. All circuits shall be divided and balanced for proper load distribution. Where possible, wiring shall be routed in looms as a single harness. Heat resistant convoluted loom shall be used. Only solderless, insulated crimp automotive electrical connectors shall be used.

APPARATUS ICC MARKER LIGHTING

Two (2) amber Whelen OS Series LED side clearance lights shall be supplied, one (1) each side mounted ahead of the forward body compartment. These lights are to be mounted in a chrome flange.

Five (5) red LED clearance lights shall be supplied, mounted in the rear of the apparatus.

Two (2) red LED clearance lights shall be supplied, mounted facing the side of the apparatus.

ICC lighting utilized and lighting positions shall be in conformance with FMVSS 108.

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REAR STOP/TAIL/TURN/BACKUP LIGHTS

The rear of the apparatus shall be equipped with Whelen 600 Series lights. The top light in the assembly shall be a red LED stop/tail light, Whelen model 60BBTC. The middle light set shall be an amber LED lamp with a populated arrow shape, Whelen model 60A00TAR and the lower lights shall be clear Halogen backup lights, Whelen model 60J000CR.

A one-piece bright finished trim shall be mounted around the rear stop/tail/turn and backup lights on each side of the apparatus.

BACK-UP ALARM

A solid state electronic backup alarm shall be installed on the rear of the apparatus and wired to the backup light circuit.

One (1) license plate mounting and LED light shall be provided. The light and bracket shall be located on the rear of the apparatus.

ROOF MOUNTED LIGHTBAR

A Whelen Justice model JE2NFPA, 56" light bar system shall be supplied and permanently mounted on the cab roof, as far forward as possible. This light bar system shall be supplied with:

- two (2) JDCR red CON3 Super-LED lightheads
- two (2) JDCA amber CON3 Super-LED lightheads
- one (1) ULF22 Two channel LED flasher to run steady burn lightheads

This light bar fulfills the requirements for Upper Zone A and in combination with the upper rear warning devices fulfills the requirements for Upper Zones B, C, and D. Any clear warning light(s) in the light bar shall be disabled automatically for the "Blocking Right of Way" mode.

LOW LEVEL WARNING LIGHTS

Two (2) Whelen warning lights, 600 Series, Super-LED light heads shall be mounted in the front grille each with a Whelen chrome plated flange. These lights shall be separated as far as practical one on each side.

The light heads shall include an internal flasher with 14 flash patterns, steady-burn and Hi/Low power. The warning lights shall be programmed for Hi-power with the same flash pattern for both the right and left light head.

These two (2) lights fulfill the requirements for Lower Zone A lower level warning devices.

Both warning light lenses shall be red in color.

FRONT INTERSECTION LIGHTS

Two (2) Whelen warning lights, 600 Series, Super-LED light heads shall be mounted one (1) on each side of the hood with a Whelen chrome plated flange.

The light heads shall include an internal flasher with 14 flash patterns, steady-burn and Hi/Low power.

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The warning lights shall be programmed for Hi-power with the same flash pattern for both the right and left intersection light head.

These two (2) lights fulfill the requirements for Lower Zone B & D lower level warning devices.

Both warning light lenses shall be red in color.

BODY SIDE WARNING LIGHTS

Two (2) Whelen warning lights, 600 Series, Super-LED light heads shall be mounted one (1) on each side of the body over the rear wheel with a Whelen chrome plated flange.

The light heads shall include an internal flasher with 14 flash patterns, steady-burn and Hi/Low power. The warning lights shall be programmed for Hi-power with the same flash pattern for both the right and left intersection light head.

These two (2) lights fulfill the requirements for Lower Zone B & D lower level warning devices.

Both warning light lenses shall be red in color.

REAR UPPER LEVEL WARNING LIGHTS

Two (2) Whelen Super-LED warning lights, model B6MM LED beacons, shall be mounted on the top of the compartment(s) on the rear of the apparatus one on each side of the hosebed.

These two (2) lights fulfill the requirements for Upper Zones B, C & D upper level warning devices.

The upper beacon portion of the light shall be red in color.

The lower directional linear Super-LED rear facing portion of the light shall have,

The driver's side lens shall be red in color and the officer's side amber in color.

REAR LOWER LEVEL WARNING LIGHTS

Two (2) Whelen warning lights, 600 Series, Super-LED light heads shall be mounted on the rear of the apparatus below the taillights at the lower outermost corners in vertical position with a Whelen chrome plated flange.

The light heads shall include an internal flasher with 14 flash patterns, steady-burn and Hi/Low power. The warning lights shall be programmed for Hi-power with the same flash pattern for both the right and left intersection light head.

These two (2) lights fulfill the requirements for Upper Zone C lower level warning devices.

Both warning light lenses shall be red in color.

IDENTIFICATION AND SAFETY LABELS

A permanent plate shall be installed in the driver's compartment to specify the quantity and type of the



following fluids in the vehicle:

1. Engine oil.
2. Engine coolant.
3. Transmission fluid.
4. Pump Transmission Lubrication Fluid.
5. Pump Primer Fluid (If applicable).
6. Drive Axle Lubrication Fluid.
7. Air-conditioning refrigerant.
8. Air-conditioning lubrication oil.
9. Power steering fluid.
10. Transfer case fluid.
11. Equipment rack fluid.
12. Air compressor system lubricant.
13. Generator system lubricant.

A permanent plate with pump performance data and serial numbers shall be installed on the pump panel.

A permanent plate shall be installed in the driver's compartment specifying the maximum number of personnel the vehicle is designed to carry per NFPA standards. It shall be located in an area visible to the driver.

An accident prevention sign stating "DANGER PERSONNEL MUST BE SEATED AND SEAT BELTS MUST BE FASTENED WHILE VEHICLE IS IN MOTION OR DEATH OR SERIOUS INJURY MAY RESULT" shall be placed so it is visible from all seating positions.

An accident prevention sign stating "DANGER DO NOT RIDE ON REAR STEP WHILE VEHICLE IS IN MOTION, DEATH OR SERIOUS INJURY MAY RESULT" shall be placed so it is visible from the rear step of the vehicle.

If an inlet located at the pump operators position is valved, it shall be provided with a permanent label with language per NFPA-1901, current edition.

WHEEL CHOCKS

One (1) pair of heavy duty, high tensile molded aluminum wheel chocks measuring 7.75" high x 8.5 wide x 15" long shall be provided with the apparatus. The wheel chocks shall have a bright yellow powder coat finish for high visibility, safety and corrosion resistance.

Two chock holders shall be provided and mounted on the left side of the apparatus below the front body compartment.

REFLECTIVE SAFETY STRIPE

A 6" wide 3M brand Scotchlite reflective stripe shall be affixed to the perimeter of the vehicle. The striping shall be placed up to 60" above ground level and shall conform to NFPA reflectivity requirements. At least 60% of the perimeter length of each side and width of the rear and at least 25% of the perimeter width of the front of the vehicle shall have reflective stripe.

REFLECTIVE STRIPE COLOR

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The apparatus body striping shall be blue reflective.

WATER TANK WARRANTY

The water tank is to be free from defects in material and workmanship for the normal service life of the apparatus in which the water tank is installed.

If a tank has a defect in material or workmanship covered by the warranty, the tank manufacturer shall repair at their cost, by authorized personnel or authorized third parties. The tank manufacturer shall make an effort to effectuate repair within 48 hours following initial notification of a covered defect. The tank manufacturer shall make a reasonable effort to repair tank at most convenient location to end user.

The tank manufacturer shall reimburse all reasonable costs associated with rendering the tank accessible for repair, including, but not limited to, removal and reassembly of the hose bed floor.

10 YEAR BODY STRUCTURAL WARRANTY

The manufacturer shall provide a limited parts and labor warranty to the original purchaser of the custom built apparatus body for a period of one hundred twenty (120) months. The warranty period shall commence on the date the vehicle is delivered to the end user. The warranty shall include conditional items listed in the detailed warranty document which shall be provided upon request.

STAINLESS PIPING WARRANTY

The bidder shall warrant that all stainless steel piping used in the construction of the fire apparatus water/foam plumbing systems against defects and workmanship provided the apparatus is used in a normal and reasonable manner. This warranty is extended only to the original user-purchaser for a period of ten (10) years from the date of delivery to the original user-purchaser, whichever occurs first.



December 15, 2015

City of Bisbee
118 Arizona Street
Bisbee, AZ 85603

Re: Alternate Proposal for Fire Truck/Pumper

Gentlemen:

We hereby propose and agree to provide, after your acceptance of this proposal and the proper execution and approval of a contract acceptable to both parties, the following apparatus:

One (1) HME Red Fox Pumper Fire Engine Pumper
Built on a 2011 International 7400 Two Door Cab and Chassis

The apparatus and equipment shall be in accordance with the attached HME specifications. The apparatus shall be delivered within 30 calendar days after acceptance of the order.

The apparatus is offered for the sum of:

ONE-HUNDRED AND EIGHTY-NINE THOUSAND, EIGHT HUNDRED AND FORTY-SEVEN dollars
(\$189,847.00), F.O.B. Bisbee, Arizona

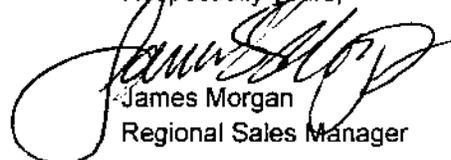
As this is a demonstrator, it is offered subject to prior sale.

Terms of payment shall be net on delivery of the completed apparatus. No pre-payments or progress payments of any kind are required. Sales tax is not included in the bid price and shall be paid by the Fire District direct to the State of Arizona DMV.

All orders are subject to final approval by the Company. Prices quoted are exclusive of any applicable Federal, State, or local taxes. Delivery times are quoted subject to delays incurred by causes beyond our control.

Please review this proposal and contact us if you have any questions. Hoping to be of further service, we remain

Respectfully yours,


James Morgan
Regional Sales Manager



INTRODUCTION

QUALIFICATIONS – HME, Incorporated is located in Wyoming, Michigan, where it manufactures a complete line of fire apparatus, including cabs and chassis, pumpers, rescue apparatus, water tenders, aerials, etc. The company operates in a modern facility which features computer controlled fabricating equipment, down-stream paint booths, and CAD system. Production currently averages over 200 units per year.

HME, Inc. was established in 1913 as a manufacturer of truck components, and has manufactured fire apparatus since the 1930's. A totally custom manufacturer, the company specializes in stainless steel construction with a design that has been that has been finite element analysis proven.

REGIONAL FACTORY REPRESENTATIVE - The authorized regional HME representative is James S. Morgan; telephone (503) 472-3621.

SERVICE AND PARTS - Authorized service is available through various independent repair shops, with coordination through HME and your local sales representative.

ESTIMATED DELIVERY DATE - The estimated delivery date quoted is based upon our contract backlog at time of bid, and is subject to delays due to strikes, international conflict, acts of God, supplier non-performance, or any other cause beyond the control of HME, Inc.

EXCEPTIONS AND CLARIFICATIONS – Please note the following exceptions and clarifications:

- This apparatus is offered on an as-is basis. It has been shown as a demonstrator and will have approximately 13,000 miles on it when delivered.
- Although it has never been sold, International only has a partial warranty on the motor and the transmission.
- The full HME warranties are included in the bid price.
- HME will sign a contract as mutually agreed upon between the City and HME, Inc.

== RedFox Commercial Pumper - 2.801 ==

SPECIFICATIONS

BUMPER, FRONT

Full Width, Aerodynamic, Chrome Plated Steel

AXLE, FRONT NON-DRIVING

12,000-lb Capacity, s-cam brakes, no dust shields. Taper Leaf 12,000-lb capacity, maintenance free rubber bushings with shock absorbers

AXLE, REAR, SINGLE

26,000-lb Capacity, s-cam brakes with cast shoes, no dust shields. Vari-Rate; 31,000-lb capacity suspension, with 4500 lb auxiliary rubber spring

WHEELS AND TIRES, FRONT AND REAR

Front - 11R22.5 HSL2 Continental LR(G) 14 ply

Rear - 12R22.5 HDR Continental LR (H) 16 ply

mounted on 22.5" Painted Steel, 2 Hand Hole, Hub Piloted wheels

AIR BRAKE SYSTEM

FMVSS-121 dual air system, ABS brakes with electronic stability with automatic traction control. Bendix air dryer

ELECTRICAL SYSTEM

12-Volt, Standard Equipment, single electric horn, intermittent wipers, keyless ignition, 220A alternator, maintenance free 1950 CCA starting capacity with battery disconnect switch, vehicle data recorder and seat belt display.

DIESEL ENGINE

330 HP @ 2000 RPM, 950 lb-ft Torque @ 1200 RPM, 2200 RPM Governed Speed with engine compression brake, cruise control, magnetic drain plug, engine fuel water separator, air cleaner restriction gauge, fan manual override, Sendure water cooler for fire truck operation and low coolant level alarm. Single, horizontal, after treatment device with horizontal tail pipe.

TRANSMISSION, AUTOMATIC

Allison 3000EVS, 5-Speed; With Overdrive, push-button type shifter

FUEL TANK

50 U.S. Gal., {189 L} capacity, non-polished aluminum, mounted right side, under cab

HOOD

Tilting, Fiberglass, chrome grille, halogen headlights with ember separator for engine intake

CAB

Four door conventional type cab with air ride mounting, air conditioning, tinted glass, deluxe interior trim with two cup holders, ceiling dome light and door storage pockets. Interior (1) "A" pillar mounted, passenger side, and (2) interior front of "B" Pillar mounted, one each side. Two (2) door mounted mirrors with convex, breakaway type, with black heads, brackets & arms.

SEATING

Front - full width vinyl, Rear - three (3) Seats, Inc 911 SCBA seats with red seat belts for occupants, 3-Point shoulder belts for driver, outer passenger and rear seats, lap belt for front center occupant.

VEHICLE TOP SPEED

The rear axle shall be geared for a top speed of 62 to 65 mph at engine governed RPM.

SCBA SEAT BRACKET

There shall be a Zico walkaway self-contained breathing apparatus brackets mounted into the seat cavity. A Zico collision restraint strap (CRS) shall be supplied with each bracket for compliance with NFPA-1901.

HYDRA TECHNOLOGY

The pump module must use Hydra Technology.

PUMP COMPARTMENT

The pump compartment is to be rubber mounted on the chassis and separate from the hose body and compartments so that each may flex independently of the other. The running boards must be separate from the hose body, compartments, and pump compartment so that each may flex independently of the other and to allow water to flow freely away from the running board area. The pump panels and running boards must be made of 12 gauge stainless steel.

PRESSURE GOVERNOR, MONITORING, and MASTER PRESSURE DISPLAY

Fire Research In Control series TGA400 pressure governor and monitoring display kit shall be installed.

PRESSURE GAUGES

Each line pressure gauge shall be mounted next to the control for the corresponding valve.

WATER TANK INDICATOR

Fire Research Tank Vision model WLA200-A00 tank indicator kit shall be installed.

PUMP RATING AND TEST REQUIREMENTS

The pump shall be of a size and design to mount on the chassis rails of commercial and custom truck chassis, and have the capacity of 1500 gallons per minute (U.S. GPM), NFPA1901 rated performance.

The pump shall be certified to the requirements of NFPA 1901, rated at 1250 GPM, prior to delivery of the completed apparatus. The certificate shall be furnished with the apparatus on delivery.

ALTITUDE REQUIREMENTS

The apparatus shall be designed to meet the specified rating at 0 to 2000' altitude.

WATER PUMP FEATURES AND ACCESSORIES

- A pump primer controlled on the operator's panel is to be supplied.
- The fire pump shall be provided with a mechanical pump seal.
- One anode is to be installed on the inlet (suction) side of the system and one anode is to be installed on the pressure (outlet) side of the system.
- The pump shall be equipped with a thermal protection device.
- An adjustable intake pressure relief valve shall be provided.
- The apparatus shall be equipped with a manual master pump drain for draining of the lower pump cavities, volute and selected water-carrying lines and accessories.

PUMP INLETS

- There shall be one (1) steamer inlet furnished on the left and one on the right side pump panel(s). The suction inlet(s) shall have 6" NST thread and be supplied with a long handle cap.
- The tank to pump piping shall be capable of delivering water to the pump at a rate of five hundred (500) gallons per minute.
- There shall be an intake located on the left (street) side and shall contain a 2-1/2" quarter-turn swing-out valve. The inlet shall be provided with a 2-1/2" NST female swivel that extends through the pump panel. One (1) 2-1/2" chrome plated rocker lug plug with chain.

PUMP DISCHARGES

The forward discharge on the left (street) side of the pump panel shall contain a 2-1/2" discharge shall be provided. The discharge shall be provided with polished stainless 30-degree discharge elbow with 2-1/2" NST male threads that extends through the pump panel. One (1) chrome plated, 2-1/2" rocker lug cap with lug vent and chain.

The rearward discharge on the left (street) side of the pump panel shall contain a 2-1/2" discharge shall be provided. The discharge shall be provided with polished stainless 30-degree discharge elbow with 2-1/2" NST male threads that extends through the pump panel. One (1) chrome plated, 2-1/2" rocker lug cap with lug vent and chain.

The forward discharge on the right (curb) side of the pump panel shall contain a 3" discharge shall be provided. The discharge shall be provided with polished stainless 30-degree discharge elbow with 3" NST male threads that extends through the pump panel. One (1) chrome plated, 3" rocker lug cap with lug vent and chain.

The rearward discharge on the right (curb) side of the pump panel shall contain a 3" discharge shall be provided. The discharge shall be provided with polished stainless 30-degree discharge elbow with 3" NST male threads that extends through the pump panel. One (1) chrome plated, 3" rocker lug cap with lug vent and chain.

A 3" diameter deluge riser shall be installed above the pump. The deluge outlet shall be plumbed with a 3" quarter-turn, swing out valve and 3" ID, Schedule 40 stainless steel piping. Deluge outlet shall have an electric control on pump operator's panel.

A 2" tank refill line shall be provided using a quarter-turn full flow ball valve controlled from the pump operator's panel.

The crosslays shall be arranged on top of the pump module with one crosslay toward the front of the pump house and one crosslay toward the rear of the pump house. Each crosslay shall be a 1-1/2" male NST outlet, plumbed with 2" schedule 40 stainless steel high pressure pipe and a 2" quarter turn ball valve. This crosslay bed shall be capable of carrying a minimum of two hundred feet (200') of 1-3/4" double jacketed hose. There must be a black vinyl crosslay cover.

A gated discharge line shall be installed to provide water from the fire pump to the chassis supplied heat exchanger to assist in engine cooling during pumping operations.

WATER TANK

A 1,200 US gallon water tank is required. The tank shall be constructed of Polypropylene with a lifetime warranty. The tank must have a sump with a clean out threaded plug. The tank shall be mounted as per the tank manufacturer's instructions.

APPARATUS BODY

The body shall be made entirely of stainless steel. The interior of the compartments and exposed unpainted surfaces are to be a brushed finish. There shall be absolutely no aluminum diamond plate on the body.

The body is to have the following dimensions:

- Left side forward of the rear wheels - There shall be one (1) rescue style, full height, and split depth compartment ahead of the rear wheels. It shall have dimensions of 48" wide x 63" high x 12" deep in the upper section and 24" deep in the lower section.
- Above the rear wheels - There shall be one (1) high side reduced depth compartment centered over the rear wheels. It shall have dimensions of 52" wide x 33" high x 12" deep.
- Left side rear of the wheels - There shall be one (1) rescue style, full height, and split depth compartment behind the rear wheels. It shall have dimensions of 43" wide x 63" high x 12" deep in the upper section and 24" deep in the lower section.
- Right side forward of the rear wheels - There shall be one (1) rescue style, half height, and full depth

- compartment ahead of the rear wheels. It shall have dimensions of 48" wide x 33" high x 24" deep.
- Right side rear of the rear wheels - There shall be one (1) rescue style, half height, and full depth compartment behind the rear wheels. It shall have dimensions of 43" wide x 33" high x 24" deep.
- Rear upper compartment - There shall be an upper rear compartment to store up to three six inch suction hoses, a backboard, a folding 10 foot ladder and up to three pike poles.
- Rear lower compartment - There shall be one (1) half height compartment at the rear of the body. It shall have dimensions of 48" wide x 29" high x 22" deep.

The body must include the following items:

- Painted roll up doors on both sides of the body
- Stainless steel door on rear upper compartment
- Stainless steel slam doors on the rear lower compartment
- Folding steps shall be provided on the front and rear of the apparatus body.
- A full width intermediate rear step is required.
- Lower rear steps - one (1) each side, shall be located outboard of the rear compartment.
- A handrail shall be provided at the left and right sides of the apparatus body mounted vertically. A full width handrail shall be mounted at the rear of the body below the hose bed.
- Each compartment shall be provided with a vent to provide adequate ventilation.
- Two tow eyes with an eye diameter of not less than 3.5" shall be attached directly to the chassis frame extensions.
- A 12" deep rear stainless steel tailboard.
- Two (2) ladder brackets with hold down handles shall be provided on the right side of the apparatus above the right side exterior compartments to hold a 24' 2-section and 14' roof ladder.

The hose bed must include:

- A minimum of 72 cubic foot of hose storage.
- A black vinyl hose bed cover

The body must include the following trim:

- Polished stainless steel fender trim.
- Painted fender openings.
- Black UHMW rub rails in the body sides.
- Rear mud flaps

Apparatus work lighting must include:

- Two (2) compartment lights shall be provided for each body compartment. No exceptions to this requirement. Each body door shall have an automatic compartment light switch.
- Two (2) area work lamps shall be provided above the tailboard, one (1) each side on the inner face of the beavertail. The lights shall be switched on when the parking brake is set and the apparatus is running with the master battery switch in the "ON" position.
- Underbody ground lights shall be provided under the apparatus body as required by current NFPA.
- One (1) Unity hose bed floodlight shall be mounted at the front right corner of the hosebed. The light shall be controlled from a water proof switch on the lamp head.
- Rear license plate light and bracket

APPARATUS LIGHTING:

The following lighting is required:

- Two (2) amber Whelen OS Series LED side clearance lights shall be supplied, one (1) each side mounted ahead of the forward body compartment. These lights are to be mounted in a chrome flange.
- All LED ICC lighting on the body.
- LED rectangular stop, tail, turn and back-up lighting with chrome trim.
- PowerArc LED Volt light bar, model VM-6004-1 P, red outer pods and white center.
- PowerArc red LED210 grille mounted lights.

- LED side light over the rear wheels.
- PowerArc red LEDB210 beacons at the upper rear of the body on stanchions.
- PowerArc red LED210 lights mounted at the lower rear corners of the body.

AUDIBLE WARNING:

The following audible warning is required:

- A solid state electronic backup alarm installed on the rear of the apparatus and wired to the backup light circuit.
- 100 watt siren speaker mounted behind the grille
- 100 watt siren amplifier which includes a microphone with wail, yelp, phaser and electronic air horn sounds.
- Hood side mounted air horns controlled by the driver.

APPARATUS EQUIPMENT:

Include the following:

- One (1) pair of heavy duty, high tensile molded aluminum wheel chocks with a bright yellow powder coat finish. Two chock holders shall be provided and mounted on the left side of the apparatus below the front body compartment.
- One DuoSafety 10' folding attic ladder
- One DuoSafety 14' roof ladder
- One DuoSafety 24' 2-section ladder

HOSEBED DIVIDER

One (1) hosebed divider shall be provided in the center of the hosebed to support the aluminum hosebed cover. It shall be fabricated from .250" thick smooth aluminum plate, with a 5052-H32 alloy. The rear end of the divider shall have a 3" radius corner and shall be sanded and deburred to prevent damage to hose.

There shall be two hand hold openings provided. One (1) at the rear in a vertical position and one (1) approximately 24 inches in from the rear in a horizontal position.

PAINT

The apparatus is to be painted red Dupont code 20726.

REFLECTIVE SAFETY STRIPE

A 6" wide 3M brand Scotchlite reflective stripe shall be affixed to the perimeter of the vehicle. At least 60% of the perimeter length of each side and width of the rear and at least 25% of the perimeter width of the front of the vehicle shall have reflective stripe.

REAR BODY REFELCTIVE CHEVRON STRIPING

The rear-facing vertical surfaces of the rear taillight panels and the area below the horizontal step, visible from the rear of the apparatus, including the rear compartment door(s), shall be equipped with six (6) inch wide reflective striping in a chevron pattern sloping downward and away from the centerline of the vehicle at an angle of 45 degrees. Each stripe in the chevron shall be a single color alternating between red (3M #-82) and yellow (3M #-81).



December 15, 2015

City of Bisbee
118 Arizona Street
Bisbee, AZ 85603

Re: Alternate Proposal for Fire Truck/Pumper

Gentlemen:

We hereby propose and agree to provide, after your acceptance of this proposal and the proper execution and approval of a contract acceptable to both parties, the following apparatus:

One (1) HME MiniEvo Pumper Fire Engine Pumper
Built on a 2016 Ford F550 Four Door Cab and Chassis

The apparatus and equipment shall be in accordance with the attached HME specifications. The apparatus shall be delivered within 30 - 180 calendar days after acceptance of the order.

The apparatus is offered for the sum of:

ONE-HUNDRED AND EIGHTY-NINE THOUSAND, EIGHT HUNDRED AND FORTY-SEVEN dollars
(\$189,847.00), F.O.B. Bisbee, Arizona

As this is a demonstrator, it is offered subject to prior sale (although HME is building several identical units)..

Terms of payment shall be net on delivery of the completed apparatus. No pre-payments or progress payments of any kind are required. Sales tax is not included in the bid price and shall be paid by the Fire District direct to the State of Arizona DMV.

All orders are subject to final approval by the Company. Prices quoted are exclusive of any applicable Federal, State, or local taxes. Delivery times are quoted subject to delays incurred by causes beyond our control.

Please review this proposal and contact us if you have any questions. Hoping to be of further service, we remain

Respectfully yours,



James Morgan
Regional Sales Manager



INTRODUCTION

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EXCEPTIONS AND CLARIFICATIONS – Please note the following exceptions and clarifications:

- A deck gun is not provided. HME can provide a 500-GPM Elkhart turret-type, bumper-mounted deck gun for an additional \$10,656.00. The bumper turret includes remote controls located in the officer's seat.
- The MiniEvo has a water tank capacity of 400 gallons.
- The full HME warranties are included in the bid price. Please see the CommFox proposal for detailed warranties.
- HME will sign a contract as mutually agreed upon between the City and HME, Inc.

== Mini Pumper - CrewCab - 2.914 ==

ORDER CONFIRMATION

Details of construction such as, but not limited to mounting positions for siren heads, grab handles, switches, labeling and materials where not otherwise specifically detailed in the written specifications at time of order, shall be left to the discretion of the HME as the manufacturer who shall be solely responsible for the design, construction and placement of the components.

A drawing is provided as part of the order confirmation. The drawing is an overall representation of the apparatus proposed and not an exact representation of the apparatus to be built. The exact locations of accessories and/or components may be revised pending complete engineering of the custom requirements of the individual apparatus order. If there is a discrepancy between the drawing and the written order confirmation; the specifications within this order confirmation prevail.

FORD F-550 CAB & CHASSIS

4x4 SD Crew Cab XL

4 side doors

Powertrain

Powerstroke 6.7L V-8 OHV direct diesel injection 32 valve intercooled turbo diesel engine * 320 amp dual alternator * 750 amp (total) 78 amp hours (Ah) (total) battery dual batteries with run down protection * 6-speed electronic SelectShift automatic transmission with overdrive, lock-up, driver selection * Part-time four-wheel drive with manual transfer case shift, manual locking hubs * Limited slip differential, driveline traction control * 4.88 axle ratio * Stainless steel exhaust

Steering and Suspension

Hydraulic power-assist re-circulating ball steering * 4-wheel disc brakes with front and rear vented discs * Firm ride suspension * Mono-beam non-independent front suspension * Front anti-roll bar * Front coil springs * HD front shocks * Rigid rear axle * Rear leaf suspension * Rear anti-roll bar * HD rear leaf springs * HD rear shocks * Front and rear 19.5" x 6.00" argent steel wheels * LT225/70SR19.5 BSW AS front and rear tires

Safety

4-wheel anti-lock braking system * Dual airbags, passenger side front-impact cancellable airbag, seat mounted driver and passenger side-impact airbags, curtain 1st and 2nd row overhead airbags * Front height adjustable seatbelts * SecuriLock immobilizer, panic alarm, security system

Comfort and Convenience

Air conditioning, underseat ducts * AM/FM stereo, clock, seek-scan, in-dash mounted single CD, MP3 decoder, 6 speakers, fixed antenna * Cruise control with steering wheel controls * Power door locks with 2 stage unlock, keyfob (front doors) keyless entry * 2 12V DC power outlets, retained accessory power * Analog instrumentation display includes tachometer, oil pressure gauge, engine temperature gauge, turbo/supercharger boost gauge, transmission fluid temp gauge, engine hour meter, exterior temp, systems monitor, trip odometer * Warning indicators include oil pressure, engine temperature, battery, lights on, key, low fuel, door ajar, service interval, brake fluid * Steering wheel with tilt and telescopic adjustment * Power front windows and vented rear windows with light tint, driver 1-touch down * Variable intermittent front windshield wipers * Passenger side vanity mirror * Day-night rearview mirror * Interior lights include dome light with fade, front reading lights, illuminated entry * Full overhead console with storage, glove box, front cupholder, instrument panel bin, driver and passenger door bins, rear door bins * Upfitter switches

Exterior Features

Side impact beams, front license plate bracket, fully galvanized steel body material * Black fender flares * Black side window moldings, black front windshield molding * Black door handles * Black grille * Trailer harness * Driver and

passenger power remote black heated convex spotter folding manual extendable trailer outside mirrors with turn signal indicators * Front chrome bumper with front tow hooks * Aero-composite halogen headlamps * Additional exterior lights include cab clearance lights, underhood light, remote activated perimeter/approach lights

Warranty

Basic 36 month/36,000 miles
Powertrain 60 month/60,000 miles
Corrosion Perforation 60 month/unlimited mileage
Roadside Assistance 60 month/60,000 miles
Diesel Engine 60 month/100,000 miles

Dimensions and Capacities

Output 300 hp @ 2,800 rpm
Torque 660 lb.-ft. @ 1,600 rpm

GVWR 19,500 lbs.
Front GAWR 7,000 lbs.
Rear GAWR Weight 14,706 lbs.
Towing capacity 16,000 lbs.

Turning radius 26.2'
Fuel tank 40.0 gal.

Emissions

50 State Emissions System

Powertrain

Engine: 6.7L OHV Power Stroke Diesel V8
Dual 78 AH Batteries. Includes clean idle decal and intelligent oil life minder.
GVWR: 19,500 lb Payload Plus Upgrade Package
Includes upgraded frame, upgraded springs and low deflection/high capacity. Increases max RGAWR to 14,706.

XL Value Package

Radio: AM/FM Stereo w/Single CD/MP3: Includes clock, 4-speakers and auxiliary audio input jack
Cruise Control; XL Decor Group

Power Equipment Group

Accessory Delay; Power Locks; Remote Keyless Entry; Perimeter Anti-Theft Alarm; Power Front Side Windows : Includes driver side 1-touch down.; Manual Telescoping Trailer-Tow Mirrors : Includes power heated glass, heated convex spotter mirror and integrated clearance lights/turn signals.; SecuriLock Anti-Theft Ignition. Deletes passenger-side lock cylinder.

Low Deflection Package

Includes 2-inch spacer blocks. Recommended for rear-biased loading, such as wrecker/retriever applications.

Fleet Options

XL Decor Group
Chrome Front Bumper
Ambulance Prep Package

Interior Colors For : Primary w/XL (Super/Crew)

AS Steel

Interior and Seating

Full cloth headliner, full vinyl/rubber floor covering, plastic/rubber gear shift knob, chrome interior accents. Center armrest, cupholder and storage.

Seating capacity of 4

Driver Position

40-20-40 split-bench front seat with adjustable head restraints, center armrest with storage

4-way adjustable driver seat includes lumbar support

Vinyl faced front seats with vinyl back material

Officer Position

4-way adjustable passenger seat

Vinyl faced front seats with vinyl back material

Crew Seating Positions

There shall be two (2) Bostrom Tanker 400CT SCBA crew seats, one on each side of the cab.

Seats shall be Vinyl and Durawear combination providing a rugged, wear resistant, waterproof upholstery. Each SCBA seat shall be provided with a SCBA bottle bracket with safety strap.

The driver/officer 40-20-40 split-bench front seat center seating position is removed to allow the installation of the center console.

CAB CONSOLE

A heavy duty angled console shall be installed in the cab between the driver and officer seats. The console shall be finished in black powder coat for durability and low reflection. The console shall be designed with a versatile mounting rail system that accomodates commercially available panels for installation of items such as radio equipment. The design shall allow for a total of sixteen (16) inches of mounting space. This option requires the center seating position to be removed from the cab.

The console shall contain the following items as standard:

Siren control head in a 3" Equipment Mounting Plate

Pump Shift in a 4" custom laminate panel

Three (3) Blank 3" Filler Plates

The following items shall be installed on the console:

Two (2) cup holders in the forward flat section of the console.

One (1) Kussmaul 091-219 Dual Port USB charging port adjacent to the cup holders.

WHEELS

The wheels shall be steel, factory finished in an argent color.

STAINLESS WHEEL LINERS

The front and rear axles shall be equipped with stainless steel wheel liners.

TIRE PRESSURE MONITORING DEVICE

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 will flash when the tire drops 8 psi below the factory setting.

DRIVELINES

Universal joints and driveshafts shall be modified for midship pump installation using SPICER 1480 series or equal. The driveshaft slip joints shall be coated to reduce sliding friction and thrust under high torque loads. Shafts shall be balanced to prevent vibration.

GRILLE GUARD

The front of the chassis shall have a bright finished center grille guard.

CAB SIDE ENTRANCE BARS

Beneath the cab doors three (3) inch round stainless steel side [nerf] bars with polyethylene step pads shall be installed.

ELECTRONIC SIREN

A Whelen electronic siren control, model 295SLSA1 full feature with 17 Scan-Lock siren tones including Radio Rebroadcast, Public Address, Manual, Wail, Yelp, Air Horn, Electronic Mechanical Siren tones and Piercer tones and hard wired microphone, shall be provided.

SIREN SPEAKER

Behind the grille there shall be a Whelen model SA315 100 watt siren speaker.

CAB PAINT

The cab on the vehicle shall be painted by the factory at Ford.

BATTERY CHARGER

A PRO MARINER / ON BOARD SOLUTIONS, 1240, advanced electronic 4-step battery charger/power supply with a 40 amp output shall be installed, under the driver's seat.

Since shoreline power is not always stable the charger shall be equipped with Auto-Ranging AC Input to automatically accept global voltages of 90 VAC to 270 VAC at 45-440 Hz.

Field Selectable - Use with lead/acid or gel batteries (AGM factory option). Select length of absorption charge cycle based on size of batteries.

In the 4-step charging system the charger will provide the following sequence.

Step 1: Fast Charge - Charger will deliver its maximum amperage rating to the connected batteries for the fastest charge (current regulation mode) until battery voltage is raised to 14.6V (lead acid factory setting). At this time, the ProTech will shift to step 2.

Step 2: Absorption Charge - Maximizes charge and holds voltage (voltage regulation mode) at 14.6V (lead acid factory setting) for 1 to 4 hours (selectable based on battery size), while letting the batteries determine the amount of amps they

can accept. This mode creates activity in the batteries, reducing sulfate buildup, and conditions the batteries for an extended life. After the programmed 1 to 4 hours have elapsed, the ProTech will shift to step 3.

Step 3: Float Mode - A precision 13.3V (lead acid factory setting) finishing voltage that maintains each battery (step-down voltage regulation mode), which is perfect for short or long storage periods and will never overcharge your batteries. ProTech will deliver its full rated output for house loads including: lighting, electronics and pumps.

Step 4: Recycle - If there are very large loads on the battery while the charger is on, the unit will recycle to the first step, ensuring that batteries stay fully charged.

One-Year Warranty - Includes lifetime repair guarantee.

Certified to - UL Marine 1236/SA

The charger shall be mounted on the ceiling of the L1 compartment.

SHORELINE AUTO-EJECT

A KUSSMAUL Super Auto Eject, model 091-55-20-120, with a yellow weatherproof cover shall be provided.

The Super Auto Eject is to be completely sealed to prevent internal contamination of the working components.

The internal switch arrangement of the Super Auto Eject shall be designed to close and open the 120-volt AC circuit after the mating connector is inserted and before the connector is removed. This design shall prevent arcing at the connector contacts to provide long life.

The electrical connection shall be provided as a 120-volt AC - 20 amp type using a NEMA 5-20P connector.

The autoeject shall be mounted high on the front exterior wall of the L1 compartment.

HYDRA TECHNOLOGY

The pump module must employ Hydra Technology. Due to the design a pump module manufactured with Hydra Technology is compact in size; massive in performance.

Each component in the module must undergo a selection and placement analysis staff engineers. Utilizing advanced 3D software the engineers goals must provide component placements for ergonomics with a completed module that produces maximum water flow with optimum versatility. Only after the complete analysis and build of the module in the computer can the build of the hardware in the shop begin.

Pump module design beginning with a foundation; cage framework assemblies that are precision manufactured from strong corrosion free heavy wall stainless steel tubing. This framework mounts to the truck frame through a mounting design complimented with iso-mount elastomer cushions. The result shall be a mounting system that allows for the twisting movement of the truck frame without undue stress loading of the pump module.

Next assembled shall be the stainless side panels. Brushed, mirror polished or power coated the stainless steel side panels provide strength and durability. Precise engineering allows each panel to be laser machined before assembly; instead of drilling holes technicians shall spend their time on assembly techniques that provide installations that breeze through strict quality assurance.

A thorough review of the valve control placements on a control module shall result in a neat and orderly layout. Open the access door on a side control module and peer inside. The horizontal control rods appear neat and orderly. The appearance is only a portion of the requirement. The same neat and orderly appearance after countless hours of

engineering design and ergonomic study provide a smooth trouble free linkage for valve operation. Another by product of the low profile control rod placement is the ability to offer ladder through the tank storage designs.

On a top control module mount valve controls are attached to the valves through high performance stainless steel aircraft type cable assemblies. Cables eliminate the inefficiencies of control rods connected to a valve. Operate a cable controlled top panel and you will feel the difference; smooth and precise across the full valve operation.

The gauge panel door shall be an expansive double wall stainless door supported by a 3/8 inch diameter hinge pin. The double wall door provides unsurpassed strength and gauge protection while thwarting the casual attempt of tinkering. Authorized servicing of the components within the door is simplified with a bolt on access panel.

Inside the access door; there shall be a clean well build appearance. Stainless steel piping, stainless steel panels, and a stainless steel framework all to provide years of trouble free service. Pipe threads are not allowed on plumbing larger than 1-1/2 inch in diameter. The pump module design shall employ Victaulic coupling connections in the pump module to save time when servicing a component. Installation of components without the use of pipe threads allows for "drop-out" maintenance of critical components without disassembly of entire piping systems. Drop in valves and manifolds with Victaulic couplings are only the start of the serviceability designed into this pump module.

Apparatus taking exception to any portion of this requirement will not be acceptable.

PUMP COMPARTMENT

For durability the pump compartment shall be constructed entirely of brushed stainless steel.

PUMP SERVICE ACCESS

The intake panels on the sides of the pump module shall be fastened with quick release latches to provide access to the pump at the intake piping area.

The floor of the crosslays shall be removable for access to the top of the pump module.

PUMP CONTROL PANEL

All pump controls and gauges shall be located at the left (street) side of the apparatus and properly identified. The layout of the pump control panel shall be ergonomically efficient and systematically organized.

All push-pull valve controls shall have quarter turn locking control rods with chrome plated zinc tee handles. Guides for the push-pull control rods shall be chrome plated zinc castings securely mounted to the pump panel. Push-pull valve controls shall be capable of locking in any position. The control rods shall pull straight out of the panel and shall be equipped with universal joints to eliminate binding.

PUMP PANEL IDENTIFICATION TAGS

The identification tag for each valve shall be recessed in the face of the control handle. All discharges shall have color-coded metal identification tags, with each discharge having its own unique color scheme. Color-coding shall include the labeling of the outlet and the drain for each corresponding discharge.

PUMP PANEL FINISH

All stainless panels used in the construction of the pump house shall have a brushed finish.

CONTROLS AND GAUGES

The following shall be provided on the pump and gauge panels in a neat and orderly fashion. The gauge panel shall include the following:

PRESSURE GOVERNOR, MONITORING, and MASTER PRESSURE DISPLAY

Fire Research InControl series TGA400-A00 pressure governor and monitoring display kit shall be installed. The kit shall include a control module, intake pressure sensor, discharge pressure sensor, and cables. The control knob shall be 2" in diameter with no mechanical stops, have a serrated grip, and a red idle push button in the center. It shall not extend more than 1-3/4" from the front of the control module. Inputs for monitored information shall be from a J1939 databus or independent sensors. Outputs for engine control shall be on the J1939 databus or engine specific wiring.

The following continuous displays shall be provided:

- Pump discharge; shown with four daylight bright LED digits more than 1/2" high
- Pump Intake; shown with four daylight bright LED digits more than 1/2" high
- Pressure / RPM setting; shown on a dot matrix message display
- Pressure and RPM operating mode LEDs
- Throttle ready LED
- Engine RPM; shown with four daylight bright LED digits more than 1/2" high
- Check engine and stop engine warning LEDs
- Oil pressure; shown on a dual color (green/red) LED bar graph display
- Engine coolant temperature; shown on a dual color (green/red) LED bar graph display
- Transmission Temperature; shown on a dual color (green/red) LED bar graph display
- Battery voltage; shown on a dual color (green/red) LED bar graph display.

The dot-matrix message display shall show diagnostic and warning messages as they occur. It shall show monitored apparatus information, stored data, and program options when selected by the operator. All LED intensity shall be automatically adjusted for day and night time operation.

The program shall store the accumulated operating hours for the pump and engine to be displayed with the push of a button. It shall monitor inputs and support audible and visual warning alarms for the following conditions:

- High Battery Voltage
- Low Battery Voltage (Engine Off)
- Low Battery Voltage (Engine Running)
- High Transmission Temperature
- Low Engine Oil Pressure
- High Engine Coolant Temperature
- Out of Water (visual alarm only)
- No Engine Response (visual alarm only)

The program features shall be accessed via push buttons and a control knob located on the front of the control panel. There shall be a USB port located at the rear of the control module to upload future firmware enhancements.

Inputs to the control panel from the pump discharge and intake pressure sensors shall be electrical. The discharge pressure display shall show pressures from 0 to 600 psi. The intake pressure display shall show pressures from -30 in. Hg to 600 psi.

The governor shall operate in two control modes, pressure and RPM. No discharge pressure or engine RPM variation shall occur when switching between modes. A throttle ready LED shall light when the interlock signal is recognized. The governor shall start in pressure mode and set the engine RPM to idle. In pressure mode the governor shall automatically regulate the discharge pressure at the level set by the operator. In RPM mode the governor shall maintain the engine RPM at the level set by the operator except in the event of a discharge pressure increase. The governor shall limit a discharge pressure increase in RPM mode to a maximum of 30 psi. Other safety features shall include recognition of no water conditions with an automatic programmed response and a push button to return the engine to idle.

The pressure governor, monitoring and master pressure display shall be programmed to interface with a specific engine.

PRESSURE GAUGES

Each line pressure gauge shall be mounted immediately above the control for the corresponding valve. The individual line pressure gauges for the discharges shall be 2-1/2" in diameter with white dial face gauges with black lettering and markings. The gauges shall be a compound style gauge with a vacuum/pressure range of 0 - 400 psig.

The gauges shall be fluid filled with pulse and vibration dampening Interlube to lubricate the internal mechanisms to prevent lens condensation and to ensure proper operation to -40 degrees F. The cases shall be temperature compensated with an internal breathing diaphragm to permit fully filled cases and to allow a rigid lens with a distortion free viewing area. The gauge accuracy for the gauge shall be plus or minus 2% mid-scale, plus or minus 3% balance, per ANSI B40.1, Grade 1A.

To prevent internal freezing and to keep contaminants from entering the gauge, the stem and bourdon tube shall be filled with low temperature oil and be sealed from the water system using an isolating diaphragm located in the stem. A bright metal bezel shall be supplied for resistance to corrosion and to protect the lens and case from damage.

All line pressure gauges shall be mounted adjacent to the corresponding discharge control tee handles.

PUMP PANEL LIGHTING

The pump operator's panel shall be supplied with a LED light system. LED strip lights with a stainless steel hood shall be mounted across the top of the pump panel gauges and controls.

LED strip lights with a stainless steel hood shall be provided on each side of the pump module above the side panels.

All pump module lighting shall illuminate when the parking brake is engaged.

WATER TANK INDICATOR

Fire Research TankVision model WLA200-A00 tank indicator kit shall be installed. 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 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 aluminum, 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, and a data link 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.

The indicator shall receive an input signal from an electronic pressure sensor. The sensor shall be mounted from the outside of the water tank near the bottom. No probe shall place on the interior of the tank. Wiring shall be weather resistant and have automotive type plug-in connectors.

PUMP MANUFACTURER AND MODEL

The pump shall be a Hale DSD model midship pump.

PUMP CONSTRUCTION AND ASSEMBLY

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. Pump shall be free from objectionable pulsation and vibration.

The pump body and related parts shall be of fine grain alloy cast iron, with a minimum tensile strength of 30,000 PSI. All moving metal parts in contact with water shall be of high quality bronze or stainless steel. Pump body shall be vertically split on a single plane for easy removal of entire impeller assembly including wear rings and bearings without disturbing piping or the mounting of the pump in chassis. Pump shaft to be rigidly supported by three bearings for minimum deflection. The bearings shall be heavy-duty, deep groove ball bearings in the gearbox and they shall be splash lubricated.

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 of sufficient size and design to provide ample reserve capacity utilizing minimum horsepower.

Removable, non-corrosive material clearance rings shall be provided.

The pump shaft shall be heat-treated, electric furnace, corrosion resistant stainless steel. Pump shaft must be sealed with double-lip oil seal to keep road dirt and water out of gearbox.

PUMP TRANSMISSION

The pump transmission shall be assembled and tested at the pump manufacturer's factory. Pump transmission shall be of sufficient size to withstand up to 16,000 lbs. ft. of torque in road operating conditions. The pump transmission shall be designed with ample capacity for lubrication reserve and to maintain the proper operating temperature.

The transmission drive shafts shall be of heat-treated chrome nickel steel and at least 2-3/4 inches in diameter on both the input and output drive shafts. They shall withstand the full torque of the engine. All gears drive and pump, shall be of highest quality electric furnace chrome nickel steel. Bores shall be ground to size and teeth integrated, shaved, hardened and ground 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 thrust.

The pump ratio shall be selected by the apparatus manufacturer to give maximum performance with the engine and transmission selected. If gearbox 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 green warning lights shall be provided to indicate to the operator when the pump has completed the shift from Road to Pump position. Two green lights to be located in the truck driving compartment and one green light on pump operator's panel adjacent to the throttle control. All lights to have appropriate identification/instruction plates.

PUMP RATING AND TEST REQUIREMENTS

The pump shall be of a size and design to mount on the chassis rails of commercial and custom truck chassis, and have the capacity of 1500 gallons per minute (U.S. GPM), NFPA 1901 rated performance. The pump shall deliver the percentage of rated discharge at pressures indicated below:

100 percent of rated capacity at 150 pounds net pressure

70 percent of rated capacity at 200 pounds net pressure
50 percent of rated capacity at 250 pounds net pressure
100 percent of rated capacity at 165 pounds net pressure

The entire pump shall be assembled 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.

ALTITUDE REQUIREMENTS

The apparatus shall be designed to meet the specified rating at 0 to 2000' altitude.

PRIMING PUMP

The priming pump shall be a positive displacement vane type, oil-less, electrically driven, and conform to standards outlined in NFPA 1901. One priming control shall both start the priming motor and open the priming valve.

PNEUMATIC PUMP SHIFT

The pump shift shall be air operated and shall incorporate an air double action piston to shift from road to pump and back. A manual or electric operated pump shift mechanism is not acceptable. The pump shift switch shall be mounted in the cab and identified as "AIR PUMP SHIFT" and include instructions permanently inscribed on the pump shift switch plate. The in-cab operating valve uses a spring loaded locking collar to prevent it from accidentally being moved.

The pump shift control assembly shall incorporate an indicating light system, which will notify the operator when the shift has been completed to PUMP and when the chassis transmission is in correct pumping gear.

The switch that activates the lights must be mounted on the pump transmission and positioned so that the pump shift arm activates the switch only when the shift arm has completed its full travel into PUMP position. An additional indicator light shall be provided adjacent to the throttle control at the pump operator's panel to indicate a completion of the pump shift.

MECHANICAL SEAL

The fire pump shall be provided with a mechanical pump seal. One (1) only required on the suction, inboard, side of the pump. The mechanical seal shall be two inches in diameter and shall be spring loaded, maintenance free and self-adjusting. Mechanical seal construction shall be a carbon sealing ring, stainless steel coil spring, Viton rubber boot, and a tungsten carbide seat with Teflon backup seal.

ANODE SYSTEM

To reduce the effect of galvanic action the pump shall be equipped with two alloy (2) anodes. One anode is to be installed on the inlet (suction) side of the system and one anode is to be installed on the pressure (outlet) side of the system.

The anode brass cap is to be drilled with a 1/8" diameter hole to provide an indicator when the anode alloy element is to be replaced.

SUCTION PRESSURE RELIEF VALVE

Task Force Tips model #A1820 pressure relief valve shall be provided. The valve shall have an easy to read adjustment range from 90 to 300 PSI in 90, 125, 150, 200, 250, 300 PSI increments. For corrosion resistance the cast aluminum valve shall be hardcoat anodized with a powder coat interior and exterior finish. The valve shall be configured for either a Waterous or Hale pump, and have a 2" male NPT threaded discharge outlet. The unit shall be covered by a five-year warranty.

The discharge side of the intake relief valve shall be plumbed to the right side below the running boards, away from but, visible to the pump operator, and shall terminate with an unthreaded pipe. The adjustment control shall be located behind the street side pump panel.

MASTER DRAIN

The apparatus shall be equipped with a Class 1 Manual Master Pump Drain for draining of the lower pump cavities, volute and selected water-carrying lines and accessories. The all brass and stainless steel construction allows for operation up to 600 psi.

PUMP CERTIFICATION TEST

The apparatus shall be certified to the requirements of NFPA 1901 prior to delivery of the completed apparatus. The certificate shall be furnished with the apparatus on delivery.

FIRE PUMP WARRANTY

Standard 5 year warranty (Parts and Labor for the first two years, parts only years 3 - 5) See Hale warranty for full details.

ELECTRONIC PUMP MANUALS

Two (2) sets of electronic fire pump service and operation manuals shall be provided with the completed apparatus.

LEFT SIDE STEAMER INLET

There shall be one (1) steamer inlet furnished on the left side pump panel. The suction inlet shall have 6" NST thread. The suction inlet shall have a removable strainer provided inside the external inlet.

LARGE DIAMETER CAP

A six (6) inch chrome plated cap with long handles shall be supplied. The cap shall be capable of withstanding 500 PSI and be trimmed with the apparatus manufacturer's logo in the center of the cap.

RIGHT SIDE STEAMER INLET

There shall be one (1) steamer inlet furnished on the right side pump panel. The suction inlet shall have 6" NST thread. The suction inlet shall have a removable strainer provided inside the external inlet.

LARGE DIAMETER CAP

A six (6) inch chrome plated cap with long handles shall be supplied. The cap shall be capable of withstanding 500 PSI and be trimmed with the apparatus manufacturer's logo in the center of the cap.

LEFT SIDE INTAKE

There shall be an intake located on the left (street) side of the pump and shall contain:

A 2-1/2" intake shall be provided. The inlet shall have a 2-1/2" quarter-turn swing-out valve. The inlet shall be provided with a 2-1/2" NST female swivel that extends through the pump panel.

The inlet valve shall have a swing type control handle located adjacent to the valve.

One (1) 2-1/2" chrome plated rocker lug plug with chain shall be supplied.

LEFT SIDE DISCHARGE #2

The second from the forward discharge on the left (street) side of the pump panel shall contain:

A 2-1/2" discharge shall be provided. The discharge outlet shall have a 2-1/2" quarter-turn swing-out valve. The discharge shall be provided with chrome plated 30-degree discharge elbow with 2-1/2" NST male threads that extends through the pump panel.

DISCHARGE CAP

One (1) chrome plated, Class 1, 2-1/2" rocker lug cap with lug vent and chain shall be furnished.

RIGHT SIDE FRONT DISCHARGE

The forward discharge on the right (curb) side of the pump panel shall contain:

A 3" discharge shall be provided. The discharge outlet shall have a 3" quarter-turn swing-out valve. The discharge shall be provided with chrome plated 30-degree discharge elbow with 3" NST male threads that extends through the pump panel.

DISCHARGE CAP

One (1) chrome plated, Class 1, 3" rocker lug cap with lug vent and chain shall be furnished.

RIGHT SIDE REAR DISCHARGE

The second from the forward discharge on the right (curb) side of the pump panel shall contain:

A 4" discharge shall be provided. The discharge outlet shall have a 4" quarter-turn swing-out valve. The discharge shall be provided with chrome plated straight discharge with 4" NST male threads that extends through the pump panel.

Control of the outlet shall be accomplished using an electric controller. There shall be an LED indicator on the controller to indicate the valve position.

STORZ ADAPTER

One (1) 4" NST Female swivel thread 30-degree down to 5" Storz hard coated aluminum adapter shall be provided. (ref. TFT AH1ST-NP)

One (1) 5" Storz cap and chain with a suction gasket shall be provided. (ref. TFT A01ST)

PUMP CROSSLAYS

There shall be two (2) hose storage crosslay areas mounted on top of the pump module. They shall be arranged in a double stack design with a divider in the center. Each hose storage area shall be provided with dimensions of 9" wide x 57" deep x 13" tall [4 cu. ft. each].

DISCHARGE VALVES

There shall be one (1) discharge outlet in each hose storage compartment.

The discharge outlet shall have a 2" quarter-turn swing-out valve with a push pull type control handle adjacent to the valve. The discharge shall be provided with a swivel head with 1-1/2" NH male threads that extend through the hose compartment floor.

CROSSLAY HOSE GUIDES

Brushed stainless steel hose guides shall be provided on the left and right side of each hose bed.

CROSSLAY HOSEBED COVER

vinyl coated nylon hosebed cover shall be provided over the crosslay hosebeds.

The vinyl crosslay cover shall be Midnight Black in color.

ELKHART BALL VALVES

All discharge ball valves shall be manual control 1/4 turn Elkhart heavy duty swing out valve with stainless steel ball unless specified otherwise.

TANK TO PUMP

The tank to pump piping shall be capable of delivering water to the pump at a rate of five hundred (500) gallons per minute. This flow shall be sustained while pumping to a minimum of 80% of the certified tank capacity with the apparatus on level ground.

The tank to pump line shall run from the pump to the front face of the water tank and down into the tank sump. A rubber coupling shall be included in this line to prevent damage from vibration or chassis flexing. The tank to pump line shall be 3" I.D. piping with a 3" ball valve.

TANK REFILL

A 2" tank refill line shall be provided using a 2" quarter-turn full flow ball valve controlled from the pump operator's panel with a manual locking handle. The tank refill shall be plumbed with high pressure flexible piping and high pressure flexible piping stainless steel couplings.

FOAM SYSTEM, DIRECT INJECTION

Fire Research TurboFoam model TFC126-030 direct injection foam proportioning system shall be installed. The system kit shall include a control module, a foam concentrate pump assembly with an electric motor, a discharge flow sensor with mount for a 3.0" pipe, check valves, foam concentrate strainer, cables, and instruction plates including operations, system diagram, and specifications.

The system shall provide the following capabilities:

Foam concentrate pump:	2.6 GPM
Maximum injection pressure:	400 PSI
	<u>A Foam Program</u>
Proportioning ratio:	0.1 to 1.0 %

The microprocessor controlled system shall automatically maintain a selected foam percent mixture at the pump discharge regardless of water flow fluctuations. It shall monitor the water flow through the discharge and control the flow rate of foam concentrate from the foam tank. The pump shall inject concentrate under pressure into the discharge side of the pump to create the correct foam solution. Foam concentrate percent shall be displayed. Discharge flow rate, total water flow, and total foam concentrate flow shall be displayed with the push of a button.

The control module shall be pump panel mounted, waterproof, and have dimensions not to exceed 4 1/4" high by 4 1/4" wide by 1 7/8" deep. The push button controls, digital display, and LED indicators shall be located on the front of the control module. A USB port shall be accessed from the rear.

The foam pump assembly shall have an overall length less than 19 1/2", width less than 10", and a height less than 8 7/8". The components of the assembly shall be mounted to a base and include a pump control box, a pump with an electric motor, a pressure relief valve, and a calibration bypass valve. The pump shall be a triplex plunger pump constructed of a die-cast body with cooling fins, a forged brass head, solid ceramic plungers, and viton seals. The pump shall have a custom electric washguard motor specifically designed for wet environments. The 1/2 hp pump motor shall operate at 12 volts DC and draw 55 amps.

LOW TANK LEVEL SWITCH

A low tank level switch shall be installed in the foam concentrate tank. The low tank level sensor shall be connected to the foam proportioning system to provide protection against dry running of the foam pump. The low tank level sensor shall be mounted on the side of the foam concentrate tank. The low tank level sensor and electrical connections shall be sealed to prevent infusion of foam concentrate into the wiring and possible short circuit of the tank level sensor.

FOAM SYSTEM

The foam system will operate as a Class A system.

SINGLE TANK FOAM TANK REFILL SYSTEM

A truck mounted 12-volt foam tank refill system shall be provided and installed on the apparatus. The refill system shall provide the ability to automatically refill the foam tank from the ground without carrying foam solution up to the foam cell in the hosebed.

The refill system shall be activated by an on/off rocker switch provided on a control panel installed on the pump panel. The foam refill system will automatically shut off when the foam tank is full. The refill system quick connection shall be located beneath the pump panel running board to prevent foam from spilling onto the running board during connection operations.

System features:

- Weather proof on/of rocker switch with integral green power on indicator light
- Red refill PUMP ON indicator light
- Automatic tank fill shutoff, vertical or side mount float switches
- Thermally protected 12-volt motor
- Relay operated motor power circuit
- 5 gpm capacity @ 8 foot lift
- Self priming pump, can run dry and re-prime itself automatically
- Composite pump head with Buna-N diaphragm
- All corrosion resistant components
- Compatible with Class A or Class B foam concentrates
- Quick connect inlet hose with wand
- Suction inlet strainer

FOAM SYSTEM OUTLETS

The foam system shall be distributed into the following discharge outlets:

- Two (2) 1-1/2" crosslays
- The left side 2-1/2" discharge
- The right side 3" discharge

PURCHASE INTENT

The apparatus being purchased is expected to have an 18 to 20 year service life. Based on this requirement, the department is extremely concerned that the apparatus remains structurally sound and the outward appearance remains in "like new" condition, with minimal maintenance and upkeep, throughout the intended service life.

Aluminum apparatus bodies and differing construction designs will be reviewed and considered ONLY if the builder / manufacture provides in the respondent specifications adequate proof that procedures and materials employed in the design prevent corrosion over the intended service life. Burden of proof is on the bidder and final determination of acceptability will be solely determined by the department.

The entire body design shall be of a laser machined, bolted design to allow for ease of removal for repair or replacement, without cutting welds.

APPARATUS BODY DESIGN AND CONSTRUCTION

The apparatus body shall be built of stainless steel and shall be designed exclusively for Fire Service use. The overall body width shall be 95 inches wide. All metal work shall be free of sharp edges, objects or corners. No exceptions are allowed to this requirement.

The body design shall be fully tested with proven engineering and test techniques such as finite element analysis, stress coating, and strain gauging. Engineering and test techniques shall have been performed with special attention given to fatigue life and structural integrity of compartments and body support system.

The apparatus body shall be designed with the use of parametric modeling engineering software to ensure proper design of panel cuts and alignment of holes in mating parts. The entire apparatus body shall be a precision laser machined, bolted construction, properly reinforced with integral flanges eliminating the need for additional structural shapes. Hose body fabrications shall be free of all internal projections which might injure personnel or fire hose.

MODULAR BODY REQUIREMENTS

The body shall be completely modular in design allowing transfer of body components to a new chassis in the event of an accident or wear. Body components shall be removable from chassis without cutting or bending. The modular design shall also facilitate ease of repair or replacement of major or minor body parts. The mounting of the apparatus body shall be separate and distinct from the water tank mounting and the pump module mounting.

All body panels are to be laser machined on a CAM controlled laser to ensure accuracy (+/- .010"). This shall greatly enhance assembly and matching of repair parts. The body compartment floors, rear walls and roof areas shall be constructed of 12-gauge stainless steel. The vertical front and rear walls are designed with 14-gauge stainless steel. These front and rear walls are designed as a structural beam with the inclusion of the design.

Interior stainless steel panels shall be #4B finish to eliminate the need for high maintenance painted surfaces in the compartments. All exterior stainless steel panels shall have #4B finish.

The entire body shall be fabricated using precision holding fixtures to ensure accurate dimensions. Body front and rear vertical flanges shall be triple broken, providing a mounting area for rear hand rails. Major body components shall consist of right and left body sides, and rear facing compartments.

COMPARTMENT ROOF CONSTRUCTION

Each compartment top shall have a bolt in 12-gauge stainless roof section for supporting roof loads of up to 500 pounds per square foot without permanent roof deformation. The stainless roof sections shall attach the compartment rear wall and compartment vertical sides through a fastened joint creating a full perimeter compartment attachment of the stainless roof section.

COMPARTMENT INTERIOR FINISH

For better interior visibility, to reflect light better, ease of maintenance and prevent the masking of poor welds an questionable workmanship the interior of the body compartments shall remain uncoated.

REAR TAILBOARD

A rear tailboard 8" deep shall be provided at the rear from "Laser Grip" stainless steel. The tailboard shall provide recessed for the rear ICC marker lights. It shall be bolted to the rear support structure.

CHASSIS FRAME EXTENSION

There shall be a rear three (3) inch x four (4) inch x 1/4 inch wall ASTM A-500 grade B rectangular tubing frame extension to provide frame support for the rear of the apparatus body.

Two vertical mounting plates are to be welded to the tubing to provide a drop frame connection to the truck chassis. This extension assembly is to be bolted to the truck chassis with eight (8) 1/2 grade 8 bolts with hardened flat washers to form an integral part of the truck frame assembly.

RECEIVER HITCH

There shall be a Class IV receiver hitch assembly as an integral part of the chassis rear frame extension that is located at the rear of the apparatus below the rear step.

EXTENSION PAINT FINISH

The rear frame extension assembly and hitch assembly is to be black powder coated prior to installation.

The rear frame extension shall be finish painted to match the chassis frame.

COMPARTMENT DESIGN AND CONSTRUCTION

All compartments shall be manufactured from 12-gauge stainless steel with the vertical front and rear corner walls from 14-gauge, shall be of sweep out design and shall be bolted together. Stainless recessed round head bolts and stainless aircraft style "ESNA" nuts shall be applied with proper torque rating for each fastener. This type of construction shall greatly enhance the strength and ease of parts replacement in the event of damage and future modifications. Wherever possible, body bolts shall be hidden from plain view for appearance and ease of apparatus cleaning.

COMPARTMENT VENTILATION

Each compartment shall be provided with a laser cut louver to provide adequate ventilation.

VENT FILTRATION

There shall be filters provided for compartments L1, L3, R1, R3 and RR1. The protective louver covering the filter shall be removable to allow for filter changing.

The filter shall be 100% virgin nylon fiber in an open web design that is USDA approved. The filter shall be chemically treated with Dimethyl Benzyl Ammonium Saccharinate to aid in the reduction of bacteria and fungi.

Compartment Body - 400 gallon - Mini Pumper

WATER TANK CAPACITY

The water tank shall be rectangular shaped, and shall have a capacity of 400 US gallons.

TANK LID & FILL TOWER

The tank shall have a combination vent and fill tower. The fill tower shall be constructed of 1/2" thick Polyprene & Mac226 and shall be a minimum dimension of 8"x 8" outer perimeter. The tower shall be located in the center front the tank unless otherwise specified by the purchaser. The tower shall have a 1/4" thick removable Polyprene & Mac226 screen and a Polyprene & Mac226 hinged-type cover. Inside the fill tower, there shall be a combination vent overflow pipe. The vent overflow shall be a minimum of schedule 40 pipe with a minimum ID of 4" that is designed to run through the tank, and shall be piped behind the rear axle beneath the tank.

The tank cover shall be constructed of recessed 1/2" thick Polyprene & Mac226, stress relieved, UV stabilized material. A minimum of two lifting dowels shall be drilled and tapped to accommodate the lifting eyes.

OVERFLOW AND VENT PIPE

The fill tower shall be fitted with an integral 4" ID, Schedule 40 PVC combination overflow/vent pipe running from the fill tower through the tank to a 4" coupling flush mounted into the bottom of the tank to allow water to overflow beneath the chassis.

The water tank manufacturer shall be either APR or UPF selected by the apparatus builder.

BODY MODULE CAPACITIES AND HOSEBED HEIGHT

The total capacity of the body module exterior compartments shall be 139 cubic feet.

The total capacity of the body hosebed shall be approximately 40 cubic feet.

The hosebed shall be approximately 44" from the bumper.

The body shall have an overall length of 108".

INTERNAL FOAM TANK

A minimum fifteen (15) gallon foam concentrate tank shall be furnished as an internal component of the booster tank. Mounted to the left side of the fill tower in the hosebed area. The foam tank shall be equipped with a pressure/vacuum vent cap.

The foam tank shall be plumbed to the on board "Class A" foam system. A drain valve shall be provided at the lowest point of the foam tank. The foam tank shall drain directly to the surface below the apparatus without contacting other body or chassis components. The following labels shall be attached to the foam tank:

"CLASS A FOAM TANK FILL"

"WARNING: DO NOT MIX BRANDS AND TYPES OF FOAM"

APPARATUS BODY HOSEBED

The hose bed shall be constructed in such a manner that will prevent damage to fire hose. The hosebed shall comply with the current NFPA requirements. The interior of the hosebed shall be free of projections such as nuts, sharp edges or brackets that may damage hose. The hosebed and walls shall be manufactured from stainless steel. No exceptions to this requirement are allowed.

An aluminum extrusion shall be installed over the rear opening of the hosebed to protect the body from wear. The hosebed bottom shall be fitted with removable slatted, ribbed 6" heavy-duty extruded aluminum floorboards.

HOSEBED COVER

A black vinyl hosebed cover shall be provided and designed to cover the entire main hosebed area. The cover shall be installed with "stretch cord type" fasteners along each side of the hosebed. A weighted flap shall be incorporated into the rear edge of the cover.

The hosebed cover rear flap shall have a positive locking device to meet the requirements of NFPA.

LEFT SIDE COMPARTMENT DIMENSIONS

FORWARD OF WHEEL WELL

There shall be one (1) rescue style, full height, full depth compartment ahead of the rear wheels. The compartment dimensions shall be 35-1/2" wide x 57" high x 22" deep with the door closed. The door opening shall be 26-1/2" wide x 49-1/2" tall.

ABOVE WHEEL WELL

There shall be one (1) high side full depth depth compartment centered over the rear wheels. The compartment dimensions shall be 44" wide x 40" high x 22" deep with the door closed. The door opening shall be 42" wide x 34-1/2" tall.

REAR OF WHEEL WELL

There shall be one (1) rescue style, full height, full depth compartment behind the rear wheels. The compartment dimensions shall be 23-1/2" wide x 57" high x 22" deep with the door closed. The door opening shall be 19" wide x 49-1/2" tall.

ROLLUP DOOR CONSTRUCTION - LEFT SIDE

All left side compartments shall be provided with Gortite roll up doors. The roll up doors shall be constructed of double sided aluminum extrusions connected with a ball and socket joint. The extrusions shall be 1-3/8" wide x 3/8" thick and shall be painted to match the job color. A flexible EDPM extrusion shall be provided between each slat to insure a weather tight seal. Aluminum extrusions shall be individually replaceable without disassembling the entire door by removing push out clips on each end.

Side channels for each door to ride in shall be provided with santoprene seals to prevent dirt and moisture from entering the exterior compartment. A single piece top drip rail shall be provided with a santoprene seal to prevent dirt and moisture from entering the compartment when the door is fully closed. The bottom of each door shall also be provided with a santoprene seal. All nonmetallic parts shall be glass filled nylon.

The left side door latches shall be non-locking stainless steel lift bars and shall be provided with a magnetic door ajar switch system.

FENDER SIDE SKIRTS

There shall be stainless steel fender side skirts located in the area of the rear wheels. The design of the fender sides shall be a minimal length to provide maximum compartment space in the apparatus.

FUEL FILL - SIDE BODY

The fuel fill shall be located in the rear fender area on the left side of the apparatus body. The spring loaded fuel fill door shall have "Diesel Fuel" laser cut in the face of the door.

BODY FENDERS - POLISHED

The apparatus body fenders shall be made from 16 gauge polished stainless steel and shall be rolled, die stamped and fully removable. The stainless steel fenders and stainless fender liners shall be fastened with stainless bolts and ESNA nuts to the outer fender panel.

REAR AXLE MUD FLAPS

Two (2) black, anti-sail, mud flaps shall be mounted behind the rear wheels.

RIGHT SIDE COMPARTMENT DIMENSIONS

FORWARD OF WHEEL WELL

There shall be one (1) rescue style, full height, full depth compartment ahead of the rear wheels. The compartment dimensions shall be 35-1/2" wide x 57" high x 22" deep with the door closed. The door opening shall be 26-1/2" wide x 49-1/2" tall.

ABOVE WHEEL WELL

There shall be one (1) high side full depth compartment centered over the rear wheels. The compartment dimensions shall be 44" wide x 40" high x 22" deep with the door closed. The door opening shall be 42" wide x 34-1/2" tall.

REAR OF WHEEL WELL

There shall be one (1) rescue style, full height, full depth compartment behind the rear wheels. The compartment dimensions shall be 23-1/2" wide x 57" high x 22" deep with the door closed. The door opening shall be 19" wide x 49-1/2" tall.

ROLLUP DOOR CONSTRUCTION - RIGHT SIDE

All right side compartments shall be provided with Gortite roll up doors. The roll up doors shall be constructed of double sided aluminum extrusions connected with a ball and socket joint. The extrusions shall be 1-3/8" wide x 3/8" thick and shall be painted to match the job color. A flexible EDPM extrusion shall be provided between each slat to insure a weather tight seal. Aluminum extrusions shall be individually replaceable without disassembling the entire door by removing push out clips on each end.

Side channels for each door to ride in shall be provided with santoprene seals to prevent dirt and moisture from entering the exterior compartment. A single piece top drip rail shall be provided with a santoprene seal to prevent dirt and moisture from entering the compartment when the door is fully closed. The bottom of each door shall also be provided with a santoprene seal. All nonmetallic parts shall be glass filled nylon.

The left side door latches shall be non-locking stainless steel lift bars and shall be provided with a magnetic door ajar switch system.

REAR COMPARTMENT DIMENSIONS

There shall be one (1) full height compartment at the rear of the body. It shall have approximate dimensions of 48" wide x 33-1/2" high x 27" deep. The door opening shall be 45-1/2" x 24" tall.

ROLLUP DOOR CONSTRUCTION - REAR

The rear compartment shall be provided with a Gortite roll up door that shall be constructed of double sided aluminum extrusions connected with a ball and socket joint. The extrusions shall be 1-3/8" wide x 3/8" thick with satin anodized finishing. A flexible EDPM extrusion shall be provided between each slat to insure a weather tight seal. Aluminum extrusions shall be individually replaceable without disassembling the entire door by removing push out clips on each end.

Side channels for the rear door to ride in shall be provided with santoprene seals to prevent dirt and moisture from entering the exterior compartment. A single piece top drip rail shall be provided with a santoprene seal to prevent dirt and moisture from entering the compartment when the door is fully closed. The bottom of the door shall also be provided with a santoprene seal. All nonmetallic parts shall be glass filled nylon.

The rear door latch shall be a non-locking stainless steel lift bar and shall be provided with a magnetic door ajar switch system.

REAR BODY REFLECTIVE CHEVRON STRIPING

The rear-facing vertical surfaces of the rear taillight panels and the rear body inset area beside the full height rear door(s), visible from the rear of the apparatus, including the rear compartment door(s), shall be equipped with six (6) inch wide retroreflective striping in a chevron pattern sloping downward and away from the centerline of the vehicle at an angle of 45 degrees.

Each stripe in the chevron shall be a single color alternating between red (3M #-82) and yellow (3M #-81).

HARD SUCTION TRAYS - LEFT SIDE

Two (2) stainless steel hard suction trays shall be installed on the top of the compartment on the left (driver's) side of the apparatus.

Each tray shall be designed to accommodate hard suction hose in a nine (9) foot length. The suction shall be held in place with straps attached to the tray with footman loops.

Compartment Top Ladder Group - 8-Fold, 8-Roof, 14-2 Sec

ROOF LADDER

One (1) 8' Duo-Safety model 775-A, aluminum channel rail roof ladder with folding roof hooks shall be provided with the apparatus.

ATTIC LADDER

One (1) 8' Duo-Safety model 585-A aluminum folding attic ladder shall be provided with the apparatus.

EXTENSION LADDER

One (1) 14' two-section Duo-Safety model 1000A solid beam, aluminum extension ladder shall be provided with the apparatus.

EXTERIOR COMPARTMENT LIGHTING

Two (2) LED strip lights shall be provided for each body compartment. Each body door shall have an automatic compartment light switch.

In addition to the LED strip lights there shall be two (2) 4" round LED lights. The lights shall be mounted in the front wall of compartments L1 and R1. These lights shall illuminate the pump panel area.

UNDERBODY LIGHTING

Underbody ground lights shall be provided under the apparatus body as required by current NFPA 1901. Four (4) 4" round LED ground lights shall be provided at the rear of the apparatus body, two (2) each side, to illuminate under the rear compartments.

There shall also be two (2) 4" round LED ground lights provided at the outer front corners of the apparatus body, one (1) each side, to illuminate the area under the forward compartments and pump panel areas. All underbody ground lights shall be switched on when the parking brake is set and the apparatus is running with the master battery switch in the "ON" position.

FOLDING STEPS

Three (3) folding steps shall be provided on the left rear of the apparatus body.

The folding step(s) shall include an integrated LED light beneath each step. This light shall illuminate when the apparatus ground lights are activated. The bottom of the step and step mounting shall include white reflective material to aide in locating the step when the vehicle ground lights are not activated.

APPARATUS ICC MARKER LIGHTING AND REFLECTORS

Three (3) red LED clearance lights shall be supplied, mounted in the rear of the apparatus.

ICC lighting utilized and lighting positions shall be in conformance with FMVSS 108.

There shall be a diamond shaped amber reflector mounted on each front corner of the apparatus body and a diamond shaped red reflector mounted on each rear corner of the body.

REAR STOP/TAIL/TURN/BACKUP LIGHTS

The rear of the apparatus shall be equipped with Whelen 600 Series lights. The top light in the assembly shall be a red LED stop/tail light, Whelen model 60BBTC. The middle light set shall be an amber LED lamp with a populated arrow shape, Whelen model 60A00TAR and the lower lights shall be clear Halogen backup lights, Whelen model 60J000CR.

A one-piece bright finished trim shall be mounted around the rear stop/tail/turn and backup lights on each side of the apparatus.

BACK-UP ALARM

A solid state electronic backup alarm shall be installed on the rear of the apparatus and wired to the backup light circuit.

One (1) license plate mounting and LED light shall be provided. The light and bracket shall be located on the rear of the apparatus.

ROOF MOUNTED LIGHTBAR

A Whelen Justice, 56" light bar system shall be supplied and permanently mounted on the lightbar mounting support on the front of the body. This light bar system shall be supplied with:

- all clear lens covers
- four (4) corner red LIN6 LED lightheads
- two (2) JDCR red CON3 Super-LED lightheads in the outboard positions
- two (2) JDCC white CON3 Super-LED lightheads in the second forward positions
- two (2) JDCR red CON3 Super-LED lightheads in the third forward positions
- two (2) rear facing JDCA amber CON3 Super-LED lightheads in the outboard positions

FRONT WARNING LIGHTS

Two (2) Whelen, model LINZ6R, LED warning lights with aluminum bezels shall be mounted on the front brush guard facing forward.

FRONT INTERSECTION LIGHTS

Two (2) Whelen, model LINZ6R, LED warning lights with aluminum bezels shall be mounted on each side of the front brush guard.

BODY SIDE WARNING LIGHTS

Two (2) Whelen, model LINZ6R, LED warning lights with aluminum bezels shall be mounted on each side of the body in the forward wheelwell area.

REAR UPPER LEVEL WARNING LIGHTS

Two (2) Whelen, model LINZ6 Super-LED red warning lights with clear lens and chrome bezels shall be mounted on the upper rear of the apparatus.

Two (2) Whelen, model LINZ6 Super-LED red warning lights with clear lens and chrome bezels shall be mounted on the upper rear sides of the apparatus.

REAR WARNING LIGHTS

Two (2) Whelen warning lights, 600 Series, Super-LED light heads shall be mounted on the rear of the apparatus below the taillights at the lower outermost corners with a Whelen chrome plated flange.

The light heads shall include an internal flasher with 14 flash patterns, steady-burn and Hi/Low power. The warning lights shall be programmed for Hi-power with the same flash pattern for both the right and left intersection light head.

Both warning light lenses shall be red in color.

LEFT FRONT QUARTZ LIGHT

The following light shall be provided mounted on the left front corner of the body:

Fire Research Spectra LED Scene Light model SPA100-Q20 lamphead shall be provided. The lamphead shall have eighty four (84) ultra-bright white LEDs, 72 for flood lighting and 12 to provide a spot light beam pattern. It shall operate at 12 volts DC, draw 18 amps, and generate 20,000 lumens of light. The lamphead shall have a unique lens that directs flood lighting onto the work area and focuses the spot light beam into the distance. The lamphead angle of elevation shall be adjustable at a pivot in the mounting arm and the position locked with a round knurled locking knob. The lamphead shall be no more than 5 7/8" high by 14" wide by 3 1/2" deep and have a heat resistant handle. The lamphead and mounting arm shall be powder coated. The LED scene light shall be for fire service use.

Fire Research -ON option switch shall be installed on the lamp head. The weatherproof on-off toggle switch shall be mounted on the lamp head.

The light head shall be mounted on a side mount push up telescopic pole. The light pole shall be anodized aluminum and have a knurled twist lock mechanism to secure the extension pole in position. The extension pole shall rotate 360 degrees. The outer pole shall be a grooved aluminum extrusion and qualify as an NFPA compliant handrail. The pole mounting brackets shall have a 3 1/2" offset. Wiring shall extend from the pole bottom with a 4' retractile cord.

RIGHT FRONT QUARTZ LIGHT

The following light shall be provided mounted on the right front corner of the body:

Fire Research Spectra LED Scene Light model SPA100-Q20 lamphead shall be provided. The lamphead shall have eighty four (84) ultra-bright white LEDs, 72 for flood lighting and 12 to provide a spot light beam pattern. It shall operate at 12 volts DC, draw 18 amps, and generate 20,000 lumens of light. The lamphead shall have a unique lens that directs flood lighting onto the work area and focuses the spot light beam into the distance. The lamphead angle of elevation shall

be adjustable at a pivot in the mounting arm and the position locked with a round knurled locking knob. The lamphead shall be no more than 5 7/8" high by 14" wide by 3 1/2" deep and have a heat resistant handle. The lamphead and mounting arm shall be powder coated. The LED scene light shall be for fire service use.

Fire Research -ON option switch shall be installed on the lamp head. The weatherproof on-off toggle switch shall be mounted on the lamp head.

The light head shall be mounted on a side mount push up telescopic pole. The light pole shall be anodized aluminum and have a knurled twist lock mechanism to secure the extension pole in position. The extension pole shall rotate 360 degrees. The outer pole shall be a grooved aluminum extrusion and qualify as an NFPA compliant handrail. The pole mounting brackets shall have a 3 1/2" offset. Wiring shall extend from the pole bottom with a 4' retractile cord.

ALUMINUM SHELVES - ADJUSTABLE

Four (4) adjustable aluminum shelves shall be provided with one (1) each installed in R1, L1, R3 and L3 compartments. The shelves shall have a flange 1-1/2" deep with a minimum material thickness of .190". Each shelf shall be adjustable in height and held in place by four (4) extruded uprights.

ALUMINUM SHELVES - ADJUSTABLE

Two (2) adjustable aluminum shelves shall be provided with one (1) each installed in R2 and L2 compartments. The shelves shall have a flange 1-1/2" deep with a minimum material thickness of .190". Each shelf shall be adjustable in height and held in place by four (4) extruded uprights.

ALUMINUM SHELF - ADJUSTABLE

One (1) adjustable aluminum shelves shall be provided and installed in the RR1 compartment. The shelf shall have a flange 1-1/2" deep with a minimum material thickness of .190". The shelf shall be adjustable in height and held in place by four (4) extruded uprights.

ALUMINUM TRAYS - PULL OUT

Four (4) heavy duty pullout trays shall be installed and shall be equipped with slides and a gas shock to hold the tray in both the in and out positions and shall be made from .190" aluminum with a maximum capacity of 250 pounds. One (1) each are to be installed on the floor of the L1, L3, R1 and R3 compartments.

WHEEL CHOCKS

One pair of heavy duty, extruded aluminum wheel chocks measuring 8" high x 7" wide x 11.8" long shall be provided with the apparatus. Worder 7HY HD Yellow Handled Extrusions are the requested chocks. The wheel chocks shall have a bright yellow powder coat finish for high visibility, safety and corrosion resistance. No exception shall be allowed to these requirements.

Two chock holders shall be provided and mounted one on each side of the apparatus just ahead of the rear tires below the front body compartment.

REFLECTIVE SAFETY STRIPE

A 1" x 4" x 1" wide 3M brand Scotchlite reflective stripe shall be affixed to the perimeter of the vehicle. The striping shall be placed up to 60" above ground level and shall conform to NFPA reflectivity requirements. At least 60% of the

perimeter length of each side and width of the rear, and at least 25% of the perimeter width of the front of the vehicle shall have reflective stripe.

REFLECTIVE STRIPE COLOR

The apparatus body striping shall be white reflective.

The smaller accent stripe(s) shall be white reflective.

WATER TANK WARRANTY

The water tank is to be free from defects in material and workmanship for the normal service life of the apparatus in which the water tank is installed.

If a tank has a defect in material or workmanship covered by the warranty, the tank manufacturer shall repair at their cost, by authorized personnel or authorized third parties. The tank manufacturer shall make an effort to effectuate repair within 48 hours following initial notification of a covered defect. The tank manufacturer shall make a reasonable effort to repair tank at most convenient location to end user.

The tank manufacturer shall reimburse all reasonable costs associated with rendering the tank accessible for repair, including, but not limited to, removal and reassembly of the hose bed floor.

10 YEAR BODY STRUCTURAL WARRANTY

The manufacturer shall provide a limited parts and labor warranty to the original purchaser of the custom built apparatus body for a period of one hundred twenty (120) months. The warranty period shall commence on the date the vehicle is delivered to the end user. The warranty shall include conditional items listed in the detailed warranty document which shall be provided upon request.

STAINLESS PIPING WARRANTY

The bidder shall warrant that all stainless steel piping used in the construction of the fire apparatus water/foam plumbing systems against defects and workmanship provided the apparatus is used in a normal and reasonable manner. This warranty is extended only to the original user-purchaser for a period of ten (10) years from the date of delivery to the original user-purchaser, whichever occurs first.



FIRE APPARATUS PROPOSAL

We hereby propose to furnish the following Ferrara Fire Apparatus vehicle and equipment to City of Bisbee, AZ, as described by the accompanying detailed specifications. The apparatus and equipment will be delivered F.O.B., Holden, LA within 110 to 150 calendar days of receipt of order at our Holden, Louisiana factory. Payment is due upon receipt of apparatus. Proposal valid for 30 days from December 15, 2015.

ITEM	DESCRIPTION	PRICE
1	Heavy-Duty Commercial Fire Truck/Pumper	\$204,517.00 (excluding taxes)

Proposal Submitted By:

James D. Ferrante

James D. Ferrante
Apparatus Sales
Ferrara Fire Apparatus, Inc.

**FERRARA FIRE APPARATUS, INC.
27855 JAMES CHAPEL ROAD
PO BOX 249
HOLDEN, LA 70744**

INTENT OF PROPOSAL SPECIFICATIONS

It is the intent of these PROPOSAL specifications to cover the furnishing and delivery, to the City of Bisbee, AZ 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

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

B. 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.

C. 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

A.

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

B.

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

C.

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

D.

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

E.

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%.

F.

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:

A.

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.

B.

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

C.

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

D.

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

E.

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.

F.

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 be 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 be 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.

SERVICE

Ferrara Fire Apparatus, Inc. has an authorized dealer and service center within 220 miles of the fire department.

The authorized dealer shall employ Fire Apparatus technicians to insure the customer that service shall be provided.

The dealer certifies that they shall stock at least one replacement part for all valves, primers, door latches, pump impellers, gauges, or any replacement part that might go wrong with this truck when it is in warranty. This shall insure the customer that he shall get quick service on any warranty problem.

INFORMATION SUPPLIED AT TIME OF DELIVERY

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

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) Paint manufacturer and paint number(s)
- (r) Company name and signature of responsible company representative

Certification of slip resistance of all stepping, standing, and walking surfaces

The pump manufacturer's certification of suction capability

A copy of the apparatus manufacturer's approval for stationary pumping applications

The engine manufacturer's certified brake horsepower curve for the engine furnished, showing the maximum governed speed

The pump manufacturer's certification of the hydrostatic test

The certification of inspection and test for the fire pump or the industrial supply pump

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

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

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)

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

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

Ferrara Fire Apparatus, Inc. shall also provide documentation of the following items for the entire apparatus and each major operating system or major component of the apparatus:

Manufacturer's name and address

Country of manufacture

Source for service and technical information

Parts replacement information

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

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

Lubrication charts

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

Precautions related to multiple configurations of aerial devices, if applicable

Instructions regarding the frequency and procedure for recommended maintenance

Overall apparatus operating instructions

Safety considerations

Limitations of use

Inspection procedures

Recommended service procedures

Troubleshooting guide

Apparatus body, chassis, and other component manufacturer's warranties

Special data required by this standard

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

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

Ferrara Fire Apparatus, Inc. 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.

PENALTY CLAUSE

Each day the vehicle exceeds the contracted delivery date a \$100.00 per day, per unit penalty clause shall be assessed.

The Fire Truck Pumper must be delivered on or before June 1, 2016. Failure to deliver by that date shall result in a penalty of \$100 per day, to be deducted from the purchase price.

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 FERRARA FIRE APPARATUS, 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, Ferrara Fire Apparatus, 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: 23' 8 3/8"

Overall Height: 9' 6"

Wheelbase: 176"

Cab to Axle: 110"

The Fire Truck Pumper shall not exceed a maximum length of 24 feet.

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, PROPOSAL

There shall be a proposal drawing submitted to the Fire Department. This drawing shall be a visual interpretation of the apparatus proposed.

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.

DELIVERY

The manufacturer will deliver the completed apparatus in 110 to 150 calendar days from the pre-construction meeting. The pre-construction meeting shall take place within 30 days from receipt of an order.

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.

The Fire Truck Pumper must be delivered on or before June 1, 2016. Failure to deliver by that date shall result in a penalty of \$100 per day, to be deducted from the purchase price.

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.

SERVICE CENTER

Company Name: Freightliner of Arizona
Address: 9600 W. Roosevelt Street
City & State: Tolleson, AZ 85353
Contact: Tim Neoding
Phone: (623_ 907-9900

CHASSIS

Vehicle Configuration

M2 106 CONVENTIONAL CHASSIS
2016 MODEL YEAR SPECIFIED
SET BACK AXLE - TRUCK
STRAIGHT TRUCK PROVISION
LH PRIMARY STEERING LOCATION

General Service

TRUCK CONFIGURATION
DOMICILED, USA (EXCLUDING CALIFORNIA AND CARB OPT-IN STATES)
FIRE SERVICE
EMERGENCY VEHICLES BUSINESS SEGMENT
LIQUID BULK COMMODITY
TERRAIN/DUTY: 100% (ALL) OF THE TIME, IN TRANSIT, IS SPENT ON PAVED ROADS
MAXIMUM 8% EXPECTED GRADE
SMOOTH CONCRETE OR ASPHALT PAVEMENT - MOST SEVERE IN-TRANSIT
(BETWEEN SITES) ROAD SURFACE
MEDIUM TRUCK WARRANTY
EXPECTED FRONT AXLE(S) LOAD : 12000.0 lbs
EXPECTED REAR DRIVE AXLE(S) LOAD : 24000.0 lbs
EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 36000.0 lbs

Truck Service

FIRE TANK/PUMPER - MAIN DRIVELINE DRIVEN SPLIT-SHAFT PTO/PUMP
EXPECTED BODY/PAYLOAD CG HEIGHT ABOVE FRAME "XX" INCHES : 32.0 in

Engine

CUM ISL 350 HP @ 2000 RPM, 2200 GOV RPM, 1000 LB/FT @ 1400 RPM

Electronic Parameters

65 MPH ROAD SPEED LIMIT
CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT

PTO MODE ENGINE RPM LIMIT - 1100 RPM
PTO MODE BRAKE OVERRIDE - SERVICE BRAKE ONLY ENABLED
PTO RPM WITH CRUISE SET SWITCH - 700 RPM
PTO RPM WITH CRUISE RESUME SWITCH - 800 RPM
PTO MODE CANCEL VEHICLE SPEED - 5 MPH
PTO GOVERNOR RAMP RATE - 250 RPM PER SECOND
PTO MINIMUM RPM - 700
REGEN INHIBIT SPEED THRESHOLD - 5 MPH

Engine Equipment

2013 ONBOARD DIAGNOSTICS/2010 EPA/CARB/GHG14
NO 2008 CARB EMISSION CERTIFICATION.
STANDARD OIL PAN
ENGINE MOUNTED OIL CHECK AND FILL
ONE PIECE VALVE COVER
SIDE OF HOOD AIR INTAKE WITH NFPA COMPLIANT EMBER SCREEN AND FIRE
RETARDANT DONALDSON AIR CLEANER
DR 12V 275 AMP 40-SI BRUSHLESS PAD ALTERNATOR WITH REMOTE BATTERY
VOLTAGE SENSE
(3) ALLIANCE MODEL 1031, GROUP 31, 12 VOLT MAINTENANCE FREE 2280 CCA
THREADED STUD BATTERIES
BATTERY BOX FRAME MOUNTED
STANDARD BATTERY JUMPERS
SINGLE BATTERY BOX FRAME MOUNTED LH SIDE BACK OF CAB
WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME
GROUND RETURN
NON-POLISHED BATTERY BOX COVER
POSITIVE LOAD DISCONNECT WITH CAB MOUNTED CONTROL SWITCH MOUNTED
OUTBOARD DRIVER SEAT
CUMMINS TURBOCHARGED 18.7 CFM AIR COMPRESSOR WITH INTERNAL SAFETY
VALVE
STANDARD AIR COMPRESSOR GOVERNOR
AIR COMPRESSOR DISCHARGE LINE
GVG, FIRE AND EMERGENCY SERVICE VEHICLES ENGINE WARNING
CUMMINS EXHAUST BRAKE INTEGRAL WITH VARIABLE GEOMETRY TURBO WITH
ON/OFF DASH SWITCH
RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM
ASSEMBLY WITH RH HORIZONTAL TAILPIPE EXITING FORWARD OF REAR TIRES

ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD ACTIVE
REGENERATION AND DASH MOUNTED SINGLE REGENERATION REQUEST/INHIBIT
SWITCH

STANDARD EXHAUST SYSTEM LENGTH

RH HORIZONTAL TAILPIPE, EXIT FORWARD OF REAR TIRES

6 GALLON DIESEL EXHAUST FLUID TANK

LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION

STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING

STANDARD DIESEL EXHAUST FLUID TANK CAP

HORTON DRIVEMASTER ON/OFF FAN DRIVE

AUTOMATIC FAN CONTROL WITH DASH SWITCH AND INDICATOR LIGHT, NON
ENGINE MOUNTED

CUMMINS SPIN ON FUEL FILTER

COMBINATION FULL FLOW/BYPASS OIL FILTER

1100 SQUARE INCH ALUMINUM RADIATOR

ANTIFREEZE TO -34F, NOAT EXTENDED LIFE COOLANT

GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT

CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES

AUXILIARY ENGINE COOLING USING WATER FROM FIRE PUMP

LOWER RADIATOR GUARD

ALUMINUM FLYWHEEL HOUSING

ELECTRIC GRID AIR INTAKE WARMER

DELCO 12V 38MT HD STARTER WITH INTEGRATED MAGNETIC SWITCH

Transmission

ALLISON 3000 EVS AUTOMATIC TRANSMISSION WITH PTO PROVISION

Transmission Equipment

ALLISON VOCATIONAL PACKAGE 198 - AVAILABLE ON 3000/4000 PRODUCT
FAMILIES WITH VOCATIONAL MODEL EVS

ALLISON VOCATIONAL RATING FOR FIRE TRUCK/EMERGENCY VEHICLE
APPLICATIONS AVAILABLE WITH ALL PRODUCT FAMILIES

PRIMARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 5,
AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY

SECONDARY MODE GEARS, LOWEST GEAR 1, START GEAR 1, HIGHEST GEAR 5,
AVAILABLE FOR 3000/4000 PRODUCT FAMILIES ONLY

VEHICLE INTERFACE WIRING AND PDM WITH BODY BUILDER CONNECTOR AT
END OF FRAME

ELECTRONIC TRANSMISSION CUSTOMER ACCESS CONNECTOR FIREWALL MOUNTED

(2) CUSTOMER INSTALLED CHELSEA 277 SERIES PTO'S
PTO MOUNTING, LH AND RH SIDES OF MAIN TRANSMISSION
MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION DRAIN, AXLE(S) FILL AND DRAIN

PUSH BUTTON ELECTRONIC SHIFT CONTROL, DASH MOUNTED

TRANSMISSION PROGNOSTICS - ENABLED 2013

WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK

TRANSMISSION OIL CHECK AND FILL WITH ELECTRONIC OIL LEVEL CHECK

SYNTHETIC TRANSMISSION FLUID (TES-295 COMPLIANT)

Front Axle and Equipment

DETROIT DA-F-12.0-3 12,000# FF1 71.5 KPI/3.74 DROP SINGLE FRONT AXLE

MERITOR 16.5X5 Q+ CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES

FIRE AND EMERGENCY SEVERE SERVICE, NON-ASBESTOS FRONT LINING

CONMET CAST IRON FRONT BRAKE DRUMS

SKF SCOTSEAL PLUS XL FRONT OIL SEALS

VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL

STANDARD SPINDLE NUTS FOR ALL AXLES

MERITOR AUTOMATIC FRONT SLACK ADJUSTERS

TRW THP-60 POWER STEERING

POWER STEERING PUMP

2 QUART SEE THROUGH POWER STEERING RESERVOIR

SYNTHETIC 75W-90 FRONT AXLE LUBE

Front Suspension

12,000# DUAL TAPERLEAF FRONT SUSPENSION

MAINTENANCE FREE RUBBER BUSHINGS - FRONT SUSPENSION

FRONT SHOCK ABSORBERS

Rear Axle and Equipment

RS-23-161 24,000# R-SERIES QUIET RIDE FIRE/EMERGENCY SERVICE SINGLE REAR AXLE

5.38 REAR AXLE RATIO

IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING

MXL 17N MERITOR EXTENDED LUBE MAIN DRIVELINE WITH FULL ROUND YOKES

MERITOR 16.5X7 Q+ CAST SPIDER HEAVY DUTY CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES

FIRE AND EMERGENCY SEVERE SERVICE NON-ASBESTOS REAR BRAKE LINING
BRAKE CAMS AND CHAMBERS ON FORWARD SIDE OF DRIVE AXLE(S)

CONMET CAST IRON REAR BRAKE DRUMS

SKF SCOTSEAL PLUS XL REAR OIL SEALS

HALDEX GOLDSEAL LONGSTROKE 1-DRIVE AXLE SPRING PARKING CHAMBERS

HALDEX AUTOMATIC REAR SLACK ADJUSTERS

SYNTHETIC 75W-90 REAR AXLE LUBE

Rear Suspension

24,000# FLAT LEAF SPRING REAR SUSPENSION WITH HELPER, WITH RADIUS ROD, FOR FIRE/EMERGENCY SERVICE

SPRING SUSPENSION - 1.50" AXLE SPACER

STANDARD U-BOLT PAD

FORE/AFT CONTROL RODS

Brake System

AIR BRAKE PACKAGE

WABCO 4S/4M ABS WITH TRACTION CONTROL

REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES

FIBER BRAID PARKING BRAKE HOSE

STANDARD BRAKE SYSTEM VALVES

STANDARD AIR SYSTEM PRESSURE PROTECTION SYSTEM

STD U.S. FRONT BRAKE VALVE

RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE

BW AD-9 BRAKE LINE AIR DRYER WITH HEATER

AIR DRYER FRAME MOUNTED

STEEL AIR TANKS MOUNTED AFT INSIDE AND/OR BELOW FRAME JUST FORWARD OF REAR SUSPENSION

CLEAR FRAME RAILS FROM BACK OF CAB TO FRONT REAR SUSPENSION BRACKET, BOTH RAILS OUTBOARD

BW DV-2 AUTO DRAIN VALVE WITHOUT HEATER - WET TANK

Trailer Connections

UPGRADED CHASSIS MULTIPLEXING UNIT

UPGRADED BULKHEAD MULTIPLEXING UNIT

Wheelbase & Frame

11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8/0.344X10.94 INCH) 80KSI

2100MM (83 INCH) REAR FRAME OVERHANG
FRAME OVERHANG RANGE: 81 INCH TO 90 INCH
SQUARE END OF FRAME
FRONT CLOSING CROSSMEMBER
STANDARD WEIGHT ENGINE CROSSMEMBER
STANDARD MIDSHIP #1 CROSSMEMBER(S)
STANDARD REARMOST CROSSMEMBER
STANDARD SUSPENSION CROSSMEMBER

Chassis Equipment

THREE-PIECE 14 INCH CHROMED STEEL BUMPER WITH COLLAPSIBLE ENDS
FRONT TOW HOOKS - FRAME MOUNTED
BUMPER MOUNTING FOR SINGLE LICENSE PLATE
NO BUMPER/FENDER MOUNTED SIGHT RODS
FENDER AND FRONT OF HOOD MOUNTED FRONT MUDFLAPS
GRADE 8 THREADED HEX HEADED FRAME FASTENERS
TANK BODY 0 TO 1500 GALLONS

Fuel Tanks

50 GALLON/189 LITER SHORT RECTANGULAR ALUMINUM FUEL TANK - LH
RECTANGULAR FUEL TANK(S)
PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED
BANDS
FUEL TANK(S) FORWARD
PLAIN STEP FINISH
FUEL TANK CAP(S)
ALLIANCE FUEL FILTER/WATER SEPARATOR
EQUIFLO INBOARD FUEL SYSTEM
AUXILIARY FUEL SUPPLY AND RETURN PORTS LOCATED ON LH FUEL TANK
HIGH TEMPERATURE REINFORCED NYLON FUEL LINE

Tires

MICHELIN XZE2 11R22.5 14 PLY RADIAL FRONT TIRES
MICHELIN XDE M/S 11R22.5 16 PLY RADIAL REAR TIRES

Hubs

CONMET PRE-SET BEARING IRON FRONT HUBS
CONMET PRE-SET BEARING IRON REAR HUBS

Wheels

ACCURIDE 50408 ACCU-LITE 22.5X8.25 10-HUB PILOT 2-HAND STEEL DISC FRONT WHEELS

ACCURIDE 50408 ACCU-LITE 22.5X8.25 10-HUB PILOT 2-HAND STEEL DISC REAR WHEELS

FRONT WHEEL MOUNTING NUTS

REAR WHEEL MOUNTING NUTS

Cab Exterior

106 INCH BBC FLAT ROOF ALUMINUM CONVENTIONAL CAB

AIR CAB MOUNTS

CAB ROOF REINFORCEMENTS FOR ROOF MOUNTED COMPONENTS

NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE

LH AND RH EXTERIOR GRAB HANDLES WITH SINGLE RUBBER INSERT

HOOD MOUNTED CHROMED PLASTIC GRILLE

CHROME HOOD MOUNTED AIR INTAKE GRILLE

FIBERGLASS HOOD

TUNNEL/FIREWALL LINER

VALVE AND PLUMBING FOR CUSTOMER FURNISHED AIR HORN, PIPING CAPPED AT FIREWALL

DUAL ELECTRIC HORNS

DOOR LOCKS AND IGNITION SWITCH KEYED THE SAME

REAR LICENSE PLATE MOUNT END OF FRAME

INTEGRAL HEADLIGHT/MARKER ASSEMBLY WITH CHROME BEZEL

(5) AMBER MARKER LIGHTS

DAYTIME RUNNING LIGHTS

OMIT STOP/TAIL/BACKUP LIGHTS AND PROVIDE WIRING WITH SEPARATE STOP/TURN WIRES TO 4 FEET BEYOND END OF FRAME

STANDARD FRONT TURN SIGNAL LAMPS

DUAL WEST COAST BRIGHT FINISH HEATED MIRRORS WITH LH AND RH REMOTE DOOR MOUNTED MIRRORS

102 INCH EQUIPMENT WIDTH

LH AND RH 8 INCH BRIGHT FINISH CONVEX MIRRORS MOUNTED UNDER PRIMARY MIRRORS

STANDARD SIDE/REAR REFLECTORS

63X14 INCH TINTED REAR WINDOW

TINTED DOOR GLASS LH AND RH WITH TINTED NON-OPERATING WING WINDOWS

MANUAL DOOR WINDOW REGULATORS

TINTED WINDSHIELD

2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR,
FRAME MOUNTED

Cab Interior

OPAL GRAY VINYL INTERIOR

MOLDED PLASTIC DOOR PANEL

MOLDED PLASTIC DOOR PANEL

BLACK MATS WITH SINGLE INSULATION

FORWARD ROOF MOUNTED CONSOLE WITH UPPER STORAGE COMPARTMENTS
WITHOUT NETTING

IN DASH STORAGE BIN

(2) CUP HOLDERS LH AND RH DASH

GRAY/CHARCOAL FLAT DASH

SMART SWITCH EXPANSION MODULE

HEATER, DEFROSTER AND AIR CONDITIONER

STANDARD HVAC DUCTING

MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH

STANDARD HEATER PLUMBING

DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR

BINARY CONTROL, R-134A

PREMIUM INSULATION

SOLID-STATE CIRCUIT PROTECTION AND FUSES

12V NEGATIVE GROUND ELECTRICAL SYSTEM

DOMELIGHT WITH 3-WAY SWITCH ACTIVATED BY LH AND RH DOORS

CAB DOOR LATCHES WITH MANUAL DOOR LOCKS

(2) 12 VOLT POWER RECEPTACLES MOUNTED IN DASH

SEATS INC 911 UNIVERSAL SERIES HIGH BACK AIR SUSPENSION DRIVER SEAT
WITH NFPA 1901-2009 COMPLIANT SEAT SENSOR

SEATS INC 911 2 MAN MID BACK NON SUSPENSION PASSENGER SEAT WITH NFPA
2009 COMPLIANT SEAT SENSORS

LH AND RH INTEGRAL DOOR PANEL ARMRESTS

GRAY VINYL DRIVER SEAT COVER WITH GRAY CORDURA CLOTH BOLSTER AND
HEADREST

GRAY CORDURA PLUS CLOTH PASSENGER SEAT COVER

3 POINT HIGH VISIBILITY ORANGE RETRACTOR DRIVER AND RH FRONT AND 2
POINT RETRACTOR CENTER FRONT SEAT BELTS WITH NFPA 1901-2009 COMPLIANT
SENSOR AND DASH HARNESS

ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN

4-SPOKE 18 INCH (450MM) STEERING WHEEL

DRIVER AND PASSENGER INTERIOR SUN VISORS

Instruments & Controls

GRAY DRIVER INSTRUMENT PANEL

GRAY CENTER INSTRUMENT PANEL

ENGINE REMOTE INTERFACE WITH PARK BRAKE INTERLOCK

BLACK GAUGE BEZELS

LOW AIR PRESSURE LIGHT AND BUZZER

2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES

ENGINE COMPARTMENT MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS, WITH WARNING LIGHT IN DASH

ELECTRONIC CRUISE CONTROL WITH SWITCHES IN LH SWITCH PANEL

IGNITION SWITCH WITH NON REMOVABLE KEY

ODOMETER/TRIP/HOUR/DIAGNOSTIC/VOLTAGE DISPLAY: 1X7 CHARACTER, 26 WARNING LAMPS, DATA LINKED, ICU3

DIAGNOSTIC INTERFACE CONNECTOR, 9 PIN, SAE J1939, LOCATED BELOW DASH

2 INCH ELECTRIC FUEL GAUGE

ENGINE REMOTE INTERFACE FOR REMOTE THROTTLE

ENGINE REMOTE INTERFACE CONNECTOR AT BACK OF CAB

ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE

2 INCH TRANSMISSION OIL TEMPERATURE GAUGE

ENGINE AND TRIP HOUR METERS INTEGRAL WITHIN DRIVER DISPLAY

CUSTOMER FURNISHED AND INSTALLED PTO CONTROLS

ELECTRIC ENGINE OIL PRESSURE GAUGE

ELECTRONIC MPH SPEEDOMETER WITH SECONDARY KPH SCALE, WITHOUT ODOMETER

STANDARD VEHICLE SPEED SENSOR

ELECTRONIC 3000 RPM TACHOMETER

NFPA VEHICLE DATA RECORDER AND SEATBELT DISPLAY

IGNITION SWITCH CONTROLLED ENGINE STOP

DIGITAL VOLTAGE DISPLAY INTEGRAL WITH DRIVER DISPLAY

SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY

MARKER LIGHT SWITCH INTEGRAL WITH HEADLIGHT SWITCH

ALTERNATING FLASHING HEADLAMP SYSTEM WITH BODY BUILDER CONTROLLED ENGAGEMENT

ONE VALVE PARK BRAKE SYSTEM WITH DASH VALVE CONTROL AUTONEUTRAL AND WARNING INDICATOR

SELF CANCELING TURN SIGNAL SWITCH WITH DIMMER, WASHER/WIPER AND HAZARD IN HANDLE

INTEGRAL ELECTRONIC TURN SIGNAL FLASHER WITH HAZARD LAMPS OVERRIDING STOP LAMPS

Design

PAINT: ONE SOLID COLOR

Color

CAB COLOR A: L6916EB FERRARA RED ELITE BC

BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT

POWDER WHITE (N0006EA) FRONT WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)

POWDER WHITE (N0006EA) REAR WHEELS/RIMS (PKWHT21, TKWHT21, W, TW)

Certification / Compliance

U.S. FMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS

Secondary Factory Options

CORPORATE PDI CENTER IN-SERVICE ONLY

(Subject to Prior Sale)

Stock Chassis: HF7070

Wheelbase: 176"

TILT TABLE TESTING

In compliance with the latest addition of NFPA 1901, Section 4.13.1.1 and SAE J2180, this vehicle exceeds the following "Tilt Table" procedures measuring the Static Rollover Threshold for Heavy Trucks set forth by the current standards. All equipment required for meeting current testing guidelines shall be located at the manufacture's facility and actual testing performed and certified by an independent third party testing company.

The vehicle shall be tilted at a minimum of 27 degrees evaluating the level of lateral acceleration required to roll the vehicle over in a steady turning situation. Transient, vibratory, or dynamic rollover situations are not simulated by this test. The test accuracies are accepted for vehicles that rollover at lateral acceleration levels below 0.5 g corresponding to a tilt table angle of less than approximately 27 degrees.

In addition to receiving a certificate of compliance, the purchaser also requires a wheel-end loading certification listing the weight on each wheel, with the vehicle on the tilt table. In accordance with NFPA 1901, 4.14.13.3, the results of the wheel-end loading shall certify the vehicle, at the time of its manufacture, is in compliance, with side-to-side weight distributions.

AIR HORN, DRIVER'S SIDE

There shall be one-(1) 24" Grover air horn installed in compliance with NFPA on the front fender driver's side, plumbed to the chassis air supply system thru an air protection valve, manufactured from spun brass material with an easily separated die cast sounding unit for serviceability.

AIR HORN FOOT SWITCH

A foot operated switch shall be installed on the driver's side wired to the air horn(s).

AIR HORN WIRING

The air horns shall be active in both the "Scene" and "Response Mode".

SPEAKER

The speaker shall be a Cast Products, Model SAD-4318, 100-watts wired to the electronic siren.

MUD FLAPS, FRONT

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

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.

BATTERY CHARGING RECEPTACLE

There shall be a Kussmaul VW-8, 12-volt male power inlet receptacle wired to the 12-volt chassis batteries. The receptacle shall be configured to allow a remote 12-volt DC power source to charge the batteries. A matching male plug shall be provided and shipped loose with the apparatus.

The battery charging receptacle cover shall be a Kussmaul 091-3YW, yellow in color.

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 LOCK-UP

An electronic lockup relay system shall be installed between the engine and transmission and the fire pump. The lock-up shall place the transmission into the 1:1 gear automatically for pump operations.

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.

EXHAUST SYSTEM

The chassis exhaust pipe and muffler shall be extended to the front of the right rear wheel. Any required heat shields to protect body and/or compartments shall be installed.

REFLECTIVE DOOR STRIPING

There shall be 96 square inches of a single color reflective material installed on the inside lower panel of each cab door.

LIGHT, BATTERY ON

A 1/2" green battery on pilot light shall be located on the cab dash visible from the driver's position. This light shall be wired to the master battery switch.

LIGHT, IGNITION ON

A 1/2" green ignition on light shall be located on the cab dash and wired to indicate power to the ignition.

MASTER LOAD DISCONNECT

A master load disconnect shall be provided between the starter solenoid and the remainder of the electrical loads on the apparatus. The batteries shall be connected directly to the starter solenoid.

LOAD MANAGER

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

This system shall be designed to activate a fast idle system with low voltage alarm that activates at the NFPA required 11.8 volts.

MASTER LIGHT SWITCH PANEL

All warning lights shall be switched from a master light switch panel mounted in the cab. This panel shall have a master light cutoff switch.

VEHICLE DATA RECORDER

Apparatus shall be equipped with a "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 anti-lock brake (ABS) modules mounted on the apparatus.

The VDR/SBW shall 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 Class 1 "Seat Belt Input Module" for seat occupied and belt status information.

The SBW system shall have the ability to use either normally open (NO) or normally closed (NC) switches (user selectable by "dip switches" at ground potential) for operation. A choice of two different visual displays for Seat Belt Warning shall be available.

The VDR data shall be downloadable by USB cable to a computer using either Microsoft™ or Apple™ Operating Systems using Class 1/ OEM supplied reporting software.

ELECTRONIC SIREN

There shall be one (1) Code 3 V-con model 3672 electronic siren provided. The unit shall be mounted in the cab and have a microphone hard-wired to the unit.

LIGHT, DOOR AJAR

A red door ajar LED flashing light shall be mounted in the cab within view of the driver.

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, ENGINE MAINTENANCE

Two-(2) white 4" incandescent round lights shall be mounted under the cab. The lights shall automatically activate when the cab is tilted.

CAB GROUND LIGHTS

There shall be one-(1) round halogen Trucklite ground light installed below 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 on the dash.

CARRYING CAPACITY PLATE

A permanently attached carrying capacity plate in accordance with 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

SEATING CAPACITY PLATE

A permanently attached Seating Capacity Plate shall be mounted in the cab in plain view that reads "Seating Capacity – 3 People".

Each seating position that is not, intended to be used during transit shall be individually labeled as follows:

"WARNING THIS SEAT IS NOT TO BE OCCUPIED WHILE VEHICLE IS IN MOTION"

OCCUPANCY/SEAT BELT PLATE

Occupancy / Seat Belt plates shall be provided and installed visible from each seated position, which reads:

"OCCUPANTS MUST BE SEATED AND BELTED WHEN THE APPARATUS IN MOTION"

"DO NOT WEAR HELMET" PLATE

A plate shall be installed visible from each seating position that states:

"DO NOT WEAR HELMET WHILE SEATED"

OVERALL HEIGHT/LENGTH/WEIGHT PLATE

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.

FLUID CAPACITY PLATE

A permanently affixed fluid data 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

MOVEMENT WARNING PLATE

A permanently affixed Movement Warning plate shall be installed near the door ajar light that reads:

“DO NOT MOVE APPARATUS WHEN LIGHT IS ON”.

"DO NOT RIDE" PLATE

A permanently affixed "DO NOT RIDE" warning plate shall be installed located on the stepping areas of the vehicle warning personnel that riding on or in these areas while the vehicle in motion is prohibited.

PUMP ENCLOSURE, SIDE CONTROL

The pump enclosure superstructure shall be constructed of aluminum tubing, channel, angle, and break-formed components. All 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 front of the pump module shall be covered with aluminum tread plate to keep road debris from the front of the pump. The crossmembers shall be isolated from the frame rails using torsion mounts.

The pump enclosure shall be supported by 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 enclosure shall provide an area for the installation of crosslays or a dunnage area.

Any pump enclosure constructed using any material other than aluminum or utilizing any other mounting method is not acceptable.

PUMP PANELS

The operator's controls and gauges shall be mounted on a pump panel constructed of 14-gauge 304 brushed stainless steel. No vinyl coverings shall be acceptable as these surfaces are subjected to rough service and vinyl is susceptible to tearing.

The operator's master gauge panel shall be vertically hinged with push style latch for access to gauges and auxiliary controls. This panel shall be constructed of 14-gauge stainless steel.

The operator's control panel shall be located below the master gauge panel and constructed of 14-gauge stainless steel.

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 upper panel shall be vertical hinged with push style latches for pump compartment access. This panel shall be constructed of 14-gauge brushed stainless steel.

The right side lower panel shall be removable for serviceability. The panel shall be constructed of 14-gauge brushed stainless steel.

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.

LIGHT SHIELD, LEFT SIDE

A polished aluminum extruded light shield shall be provided above the left side pump panel.

LIGHT SHIELD, RIGHT SIDE

A polished aluminum light shield extrusion shall be provided above the right side pump panel.

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.

RUNNING BOARD, LEFT SIDE

A running board shall be provided on the left side of pump module constructed of "Embossed" 3/16" (.1875) aluminum tread plate flanged down and in 2.50" x 1.00" for maximum rigidity then bolted to the modules substructure to facilitate removal.

The running board stepping surface shall comply with the latest version of NFPA 1901.

RUNNING BOARD, RIGHT SIDE

A running board shall be provided on the right side of pump module constructed of "Embossed" 3/16" (.1875) aluminum tread plate flanged down and in 2.50" x 1.00" for maximum rigidity then bolted to the modules substructure to facilitate removal.

The running board stepping surface shall comply with the latest version of NFPA 1901.

MASTER GAUGES, 4-1/2"

Two compound 4-1/2" master gauges shall be provided and installed on the pump operator's panel. The intake and discharge gauges are 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 accurate within 1%.

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.

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.

ENGINE THROTTLE

There shall be a Vernier engine throttle with quick release at the center of the controller. The throttle shall be mounted on the pump panel.

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.

NFPA INDIVIDUAL GAUGE PACKAGE

The following monitoring devices shall be installed on the pump operator's panel in compliance with the latest version of NFPA.

- 2" weatherproof oil pressure gauge
- 2" weatherproof engine coolant temperature gauge
- 3" tachometer indicating engine revolutions per minute
- 2" voltmeter that reads from 8 to 16 volts

There shall be an audible alarm, with warning indicator lights, mounted behind the pump operator's panel, connected to the oil pressure and water temperature gauges alerting the pump operator if low oil pressure or high water temperature condition exists.

PUMP SYSTEM, HALE QFLO PLUS 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. 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. Pumps utilizing castings made of lower tensile strength cast iron are not acceptable.

The pump body shall be vertically split, on a single plane, for easy removal of entire impeller assembly including wear rings and bearings without disturbing piping or the mounting of the pump in chassis.

The pump shaft shall be rigidly supported by three bearings for minimum deflection. The 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.

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 for longer shaft life. Pump shaft must be sealed with double lip oil seal to keep 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.

The 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 thrust.

The pump ratio shall be selected by the apparatus manufacturer to give maximum performance with the engine and transmission selected.

If the 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 clapper check valve shall be installed between the suction side of the pump and the tank-to-pump valve. This clapper valve shall eliminate the possibility of a pressure surge expanding the water tank.

Pump system shall utilize an integral discharge manifold system that allows a direct flow of water to all discharge valves.

MECHANICAL SEAL

The midship pump shall be equipped with a high quality, spring loaded, and self-adjusting mechanical seal capable of providing a positive seal to atmosphere under all pumping conditions. This positive seal to atmosphere must be achievable under vacuum conditions up to 26 Hg (draft) or positive suction pressures up to 250 PSI.

The mechanical seal assembly shall be 2 inches in diameter and consist of a carbon sealing ring, stainless steel coil spring, Viton rubber boot, and a tungsten carbide seat, with a Teflon backup seal provided.

Only one mechanical seal shall be required, located on the first stage suction (inboard) side of the pump and be designed to be compatible with a one-piece pump shaft. A continuous cooling flow of water from the pump shall be directed through the seal chamber when the pump is in operation.

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 Hale model ESP 12 volt positive displacement vane primer shall be installed. The primer shall be electrically driven and conform to the standards outlined in the current NFPA Pamphlet. The system is an oil-less system and environmentally safe. It contains an electric rotary vane type positive displacement primer that operates off 12V or 24V power. The primer motor is totally enclosed to prevent dust, dirt and water from penetrating. The unit is constructed of heat-treated anodized aluminum, specially coated for wear and corrosion resistance. The control shall be pump panel mounted to operate the priming valve and start the priming motor.

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.

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, 1250 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 6" NST non-gated suction header with removable screen, and long handled cap shall be provided on the left side of the pump.

A 6" NST non-gated suction header with removable screen, and long handled cap shall be provided on the right side of the pump.

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.

PRESSURE RELIEF VALVE

There shall be a Hale QD pressure relief valve provided. This automatic pressure control device shall be a single bronze variable pressure setting relief valve of ample capacity to prevent an undue pressure rise as per NFPA Pamphlet No. 1901. An increase in pump pressure shall open the normally closed valve. A control light on the pump panel shall be installed to signal when open. In event of relief valve control failure, the pump is to remain operable for the complete range of the pump's rated capacity, without requiring the closing of any emergency or "in case of failure" (off/on) valves.

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 controlled by a chrome push/pull locking "T" handle installed at the left pump 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 (locking "T" handle) push-pull controlled at 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).

PUMP/PLUMBING PAINTING

The pump shall be painted black. This includes all intakes, discharges, manifolds, and associated valves.

AKRON PUSH-PULL CONTROL VALVE PACKAGE

All discharge valves shall be Akron Heavy-Duty Swing-Out push/pull controlled from the pump operator's panel unless otherwise specified.

The 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 FRONT PANEL

One-(1) 2-1/2" swing operated ball valve shall be installed at the pump panel, left front 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.

NO. 1 CROSSLAY, 1-3/4" DOUBLE LAY

One-(1) pre-connected crosslay compartment shall be provided above the side mount operator's panel accommodating 200' of 1-3/4" double jacket hose. Stainless steel nylon guided rollers shall be installed at each end with stainless steel scuff plates around the perimeter to protect the painted surface.

One-(1) 2" ball valve with mechanical swivel shall be installed. The valve shall be plumbed to the crosslay with 2" high-pressure flexible hose and stainless steel couplings. The high pressure hose shall be tested to 1200 PSI. The crosslay valve shall be push-pull controlled at the pump operator's panel.

Each discharge is equipped with a 3/4 quarter-turn drain valve.

NO. 2 CROSSLAY, 1-3/4" DOUBLE LAY

One-(1) pre-connected crosslay compartment shall be provided above the side mount operator's panel accommodating 200' of 1-3/4" double jacket hose. Stainless steel nylon guided rollers shall be installed at each end with stainless steel scuff plates around the perimeter to protect the painted surface.

One-(1) 2" ball valve with mechanical swivel shall be installed. The valve shall be plumbed to the crosslay with 2" high-pressure flexible hose and stainless steel couplings. The high pressure hose shall be tested to 1200 PSI. The crosslay valve shall be push-pull controlled at the pump operator's panel.

Each discharge is equipped with a 3/4 quarter-turn drain valve.

CROSSLAY DIVIDER

One-(1) crosslay hosebed divider shall be provided manufactured from 1/4" (.250") smooth aluminum plate, extruded aluminum base mounted in an extruded track for horizontal adjustment, with radius corners, and DA sanded to prevent damage to the hose.

CROSSLAY COVER

There shall be a Hypalon crosslay cover provided with the apparatus secured by twist-lock connectors along the top, and Velcro closures on each end protecting the crosslay hose. The cover prevents hose from inadvertently deploying during normal operations meeting the current NFPA requirements.

The Hypalon end flaps shall be secured at the bottom using pushpins. The cover prevents hose from inadvertently deploying during normal operations meeting the current NFPA requirements.

The covers 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 push/pull 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 push/pull controlled from the pump operator's panel.

DISCHARGE, 2-1/2" RIGHT FRONT PANEL

One-(1) Akron 2-1/2" Heavy-Duty ball valve with 3/4" drain shall be installed at the pump panel, right front, plumbed to the discharge side of the pump push/pull controlled from 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 push/pull 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 push-pull controlled at the pump operator's panel.

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 1/2" to 1" as required. Internal baffles are generally 3/8" in thickness.

ISO CERTIFICATION

The tank must be "T" shaped 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 model WLA200-A00 tank indicator kit shall be installed. 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) super bright LED's. A wide view lens over the LED's shall provide for a viewing angle of 180 degrees. The indicator case shall be waterproof, manufactured of aluminum, 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, and a data link to connect remote indicators. Low water warnings shall include flashing LED's at 1/4 tank, down chasing LED's when the tank is almost empty, and an output for an audio alarm.

The indicator shall receive an input signal from an electronic pressure sensor. The sensor shall be mounted from the outside of the water tank near the bottom. No probe shall place on the interior of the tank. Wiring shall be weather resistant and have automotive type plug-in connectors.

APPARATUS BODY, 96" WIDE

The fire apparatus body shall be 96" wide fabricated using modular design consisting of independent body parts bolted to an independent heavy-duty superstructure framework. The reason for specifying a modular designed body is for strength and ease of replacement in the event of incidental damage.

BODY STRUCTURE AND SUBFRAME

The steel superstructure shall consist of an upper and lower half, with both halves being welded together using precision holding fixtures to ensure proper dimensions.

The upper half of the superstructure shall be fabricated using 3" heavy duty, 4.1 pound per foot, structural steel channel. The superstructure framework shall be designed with two-(2) full lengths of 3" channel stringers located directly over the chassis frame rails. A minimum of six-(6) transverse cross members shall be supplied, three-(3) of which extend beyond the chassis frame rails to support the body side compartments. There shall be 1/4" (.250") steel gussets used to support the side frame supports, which also attaches to the compartments.

The lower half of the superstructure framework shall be fabricated using 2" x 3" x .375" thick angle iron supports to run parallel to the chassis frame rails and underneath the full-length rear compartment. There shall be two-(2) 2" x .5" thick, full width cross members provided for supporting of the 20" deep rear step. In addition, a minimum of six-(6) longitudinal members shall be spaced equally apart between the two-(2) 2" transverse supports to provide the main support for the full-length rear compartment module, and provide the support framework for the rear step.

The superstructure framework shall be bolted to the chassis frame rails using a minimum of twenty-(20) contact points (10 on each side). Bolting of the superstructure to the chassis shall be accomplished using 1/2" (.500") grade 8 bolts with locking nuts. The use of U-bolts or friction type body mounting systems shall not be acceptable.

After fabrication of the superstructure, the entire framework shall be properly cleaned and painted with a two (2)-stage paint process. First, the superstructure shall be painted with DuPont 615 Variprime, a self-etching primer. Next, the superstructure shall be completely painted with DuPont Imron Polyurethane paint. The above process shall be used to seal the steel and prevent rusting or galvanic corrosion to the superstructure framework.

BODY CONSTRUCTION

The fire apparatus body shall be fabricated using modular design consisting of independent body parts bolted to an independent heavy-duty superstructure framework. The reason for specifying a modular designed body is for strength and ease of replacement in the event of incidental damage.

All bidders shall supply satisfactory evidence of their ability to fabricate such a modular designed body, including proof of the necessary tooling, CNC machines, and fixtures required to produce parts in quantity to exacting tolerances and evidence of a comprehensive body parts stocking program.

The fire apparatus body's sides shall be fabricated of 12 gauge Galvanneal 52,000 PSI steel and are easily removed by unbolting. The upper edges of the body side panels shall have a 2" x 1" double break outward for strength and rigidity.

The front hose body shall be supported by two-(2) 1.5" x .375" flat bar stiffeners, one each side welded directly to the body superstructure.

The hose bed decking shall be entirely constructed from anodized aluminum extrusions. The extrusions shall be .75" x 8.125" and have a .75" x 3.00" hat channel attached to the underside to form a one-piece grid.

Absolutely no pop rivets shall be acceptable in the hose bed floor.

The entire hose bed shall be removable, in one piece, to allow ease of maintenance to the tank. The hose bed shall have an extrusion across the front and rear of the compartment to allow for the installation of adjustable hose bed dividers. The rear hose body shall be supported by a 3" x .50" flat bar stiffener.

One-(1) side body fender shall be installed on each side between the front and rear compartments. The fender shall be modular in design and be bolted between both compartments with sixteen-(16) stainless steel, 1/4" (.250") self-locking nuts and bolts. The fender shall be manufactured out of the same material as the (hose body) side panels. Polished stainless steel fenderettes and fully removable circular aluminum splash aprons shall be installed in each fender wheel area and be totally enclosed to protect from road splash or trash entering this area. A deflection shield shall be provided to keep road debris from entering the water tank area and damaging the tank. No ledge shall be in the fender wheel housing to hold water.

COMPARTMENT CONSTRUCTION

Each compartment shall be built in a modular design. All compartments shall be constructed of 12-gauge Galvanneal steel. All lower side compartments shall have sweep out style floors.

For strength and durability, each compartment module shall be fabricated primarily from a single piece of material bent at all four corners with the top, bottom and steel doorplates bearing the only welded portions of the compartment module.

After fabrication, each compartment shall be sanded and primed using the same method as listed in the paint finish section of these specifications. After paint, each compartment module shall be attached to the steel superstructures framework. Each module shall be bolted using a minimum of twenty-(20) stainless steel, 5/16" (.3125") bolts, and ESNA type self-locking nuts. All compartments shall be easily removed by the use of hand tools.

All lower side compartments shall have a minimum of four-(4) 1/4" (.250") drain holes one-(1) located in each corner. Inverted angles shall be welded on the underside of the compartment floors to divert water from the interior and prevent road debris from entering. In addition to the above item, heavy-duty "U" shaped beams shall be welded to the bottom of the side compartments to eliminate deflection and increase compartment floor strength. A minimum of one-(1) "U" beam shall be installed under each of the lower compartments. Louvers shall be provided in all compartments to promote airflow and prevent moisture buildup.

COMPARTMENTS, LEFT SIDE

L1

There shall be one-(1) front compartment installed ahead of the rear axle. This compartment shall have one-(1) roll up door. The compartment shall be approximately 33-1/2" wide x 29" high x 27-1/2" deep. The compartment shall have a useable door opening of approximately 26-1/2" wide x 21" high.

L2

There shall be one-(1) rear compartment installed behind the rear axle. This compartment shall have one-(1) roll up door. The compartment shall be approximately 23-1/2" wide x 29" high x transverse. The compartment shall have a useable door opening of approximately 16-1/2" wide x 21" high.

COMPARTMENTS, RIGHT SIDE

R1

There shall be one-(1) right front compartment installed ahead of the rear axle. This compartment shall have one-(1) roll up door. The compartment shall be approximately 33-1/2" wide x 29" high x 27-1/2" deep. The compartment shall have a useable door opening of approximately 26-1/2" wide x 21" high.

R2

There shall be one-(1) right rear compartment installed behind the rear axle. This compartment shall have one-(1) roll up door. The compartment shall be approximately 23-1/2" wide x 29" high x transverse. The compartment shall have a useable door opening of approximately 16-1/2" wide x 21" high.

COMPARTMENT DOORS, RIGHT SIDE ROLL UP

ROM roll-up doors shall be installed on the right side compartments of the apparatus as specified.

Slats are to 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 outside door shall have a natural finish.

There shall be an anodized aluminum sill plate installed over the compartment door.

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 39" wide x 21-1/2" high.

COMPARTMENT DOOR, REAR ROLL UP

A ROM roll-up door shall be installed on the rear compartment of the apparatus.

Slats are to 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 outside door shall have a natural finish.

There shall be an anodized aluminum sill plate installed over the compartment 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.

BRACKETS, GROUND LADDERS

One-(1) pair of spring operated ladder brackets shall be installed on the exterior wall of the hosebed, right side, designed to hold one-(1) extension ladder and one-(1) roof ladder. Each bracket shall be mounted on polished aluminum extrusions slotted to allow infinite adjustment of the ladder brackets.

TRAYS, SUCTION HOSE

Two-(2) aluminum suction hose storage trays shall be installed above the left side compartments. Each tray shall hold one-(1) 10' section of the specified suction hose and have spring latches to hold hose in position.

BODY TRIM

The standard body trim shall include the following:

The vertical rear face of the body shall be covered with smooth aluminum plate.

Two-(2) handrails shall be located on the rear of the apparatus, one-(1) handrail per side. Each handrail shall be constructed of 1-1/4" knurled aluminum. The handrails shall be mounted with chrome plated end stanchions. Each 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.

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

All lower compartments shall have a 1" solid 6061-T6 aluminum rubrail that is bolted and spaced from the lower body. The solid rubrail shall serve as protection to the side doors when coming into contact with close objects. Tread plate rubrails that are bolted 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.

STEP, INTERMEDIATE REAR

The intermediate rear step shall be constructed of 3/16" (.1875") aluminum tread plate.

All running board and step surfaces shall comply with NFPA 1901.

STEPS, REAR FIXED W/LED LIGHT

There shall be two (2) rear lighted steps installed on the apparatus. The steps shall be a Cast Products step and have a minimum of thirty-five (35) square inches of surface area to conform to the NFPA 1901 standards. The step(s) shall include a 12-volt LED light to illuminate the area below.

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 hose bed cover constructed of 16 oz. heavy-duty Hypalon shall be provided. Cover shall be fire retardant and installed over hose bed. The cover shall have chrome twist-locks and Velcro installed around the perimeter of the hose bed. The end of the hose bed cover shall be secured and cover the hose bed opening. The cover shall completely protect the hose in the hosebed and prevent hose from inadvertently deploying during normal operation.

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:

Quantity: Size of Hose: Brand Name of Hose:

Customer must specify hose to have the correct hose capacity to meet the current NFPA.

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 275° 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 hulkhead 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 275° 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.

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, COMPARTMENT

Each compartment shall have one-(1) Truck Lite Model 80351, 5" diameter single bulb compartment light wired to the door ajar system activated when the door is in the open position.

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, 52" WHELEN C300200A

A Whelen model C300200A Centurion halogen lightbar shall be mounted on the cab roof. The lightbar shall measure 52" in length and positioned as far forward as possible. The lightbar shall have three-(3) independent, motor driven halogen rotators assemblies with four-(4) "V" mirrors.

The lightbar shall be controlled in the following manner:

Calling for Right of Way - All Positions

Blocking Right of Way - Clear shall not 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 C UPPER

Two-(2) Whelen model RB6TRP rotating incandescent beam light shall be installed, one-(1) each side on the upper rear of the apparatus. The unit shall incorporate a dual parabolic reflector rotating halogen beacon and polycarbonate lens. The unit shall be driven by a heavy-duty motor assembly, double roller ball bearings. The motor assembly shall come with a three (3) warranty. The unit shall be capable of producing 150 flashes per minute. The dimensions of the unit shall be approximately 6.18" in diameter x 6.75" high. The lens color shall be red.

LIGHTS, ZONE A LOWER

Two-(2) Whelen TIR6 Series Super-LED model 50R03ZRR shall be installed, one-(1) each side front of the apparatus. The warning lights shall incorporate red Linear Super-LEDs, a red optic hard coated polycarbonate lens. The surface mount module includes a chrome flange and hardware for horizontal mounting.

LIGHTS, ZONE B/D FRONT LOWER

Two-(2) Whelen TIR6 Series Super-LED model 50R03ZRR lights shall be installed, one-(1) each side forward portion of the apparatus. The warning lights shall incorporate red Linear Super-LEDs, a red optic hard coated polycarbonate lens. The surface mount module includes a chrome flange and hardware for horizontal mounting.

LIGHTS, ZONE B/D MIDSHIP LOWER

Two-(2) Whelen TIR6 Series Super-LED model 50R03ZRR lights shall be installed, one-(1) each side midship of the apparatus. The warning lights shall incorporate red Linear Super-LEDs, a red optic hard coated polycarbonate lens. The surface mount module includes a chrome flange and hardware for horizontal mounting.

LIGHTS, ZONE B/D REAR LOWER

Two-(2) Whelen TIR6 Series Super-LED model 50R03ZRR lights shall be installed, one-(1) each side rearward portion of the apparatus. The warning lights shall incorporate red Linear Super-LEDs, a red optic hard coated polycarbonate lens. The surface mount module includes a chrome flange and hardware for horizontal mounting.

LIGHTS, ZONE C LOWER

Two-(2) Whelen TIR6 Series Super-LED model 50R03ZRR shall be installed, one-(1) each side on the lower rear of the apparatus. The warning lights shall incorporate red Linear Super-LEDs, a red optic hard coated polycarbonate lens. The surface mount module includes a chrome flange and hardware for horizontal mounting.

STOP, TURN AND BACK-UP LIGHTS

Stop, turn and backup lights shall be Whelen Model 64 individual fixtures with halogen lamps. The red stop light shall be model 60X000RR, the turn light shall be a model 60X000TR amber type with directional arrow, and the backup light shall be a model 60F000CR clear flood light type.

HOUSING, REAR TAIL LIGHT ASSEMBLY

The fixtures shall be mounted on each rear face of the body in a model CAST3, three-(3) light head cast aluminum housing.

LIGHTS, SWIVEL MOUNT DECK

Two-(2) 6" chrome plated deck lights with swivel mount shall be installed one-(1) each side at the rear of the apparatus. Each light shall be manually operated and switched on and off at the light. One-(1) halogen spot light bulb with 160,000-candlepower shall be supplied. One-(1) halogen flood light bulb with a 6,000 candlepower shall be supplied.

The deck lights shall also serve as rear work lights to illuminate the rear of the apparatus to meet NFPA-1901 requirements.

CLEARANCE LIGHTS AND REFLECTORS

Clearance lights and reflectors shall include (2) red marker lights, (4) red rectangular reflectors, (2) amber rectangular reflectors and (1) red three light cluster recessed in the rear step.

LIGHTS, UNDERBODY

Six-(6) underbody "Ground Effect" lights shall be installed at a location to be determined during the pre-construction conference. The underbody lights shall illuminate the ground beneath the apparatus. The lights shall have a clear lens.

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.

LIGHTS, 12-VOLT SURFACE MOUNT SCENE

One (1) pair of Whelen 600 Series Model 60K000XR 26-degree scene lights shall be provided and installed on the apparatus. The lights shall have a snap-in 35 watt halogen lamp and chrome plated trim ring flange.

The scene lights shall be installed, one-(1) each side of the body in the upper front corners.

The front side body mounted scene lights shall be controlled by individual scene light switches located in the cab labeled LEFT SCENE and RIGHT SCENE.

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.

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.

SCOTCHLITE STRIPE

There shall be a 4" wide Scotchlite stripe, with an additional 3/4" 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 shall be blue in color.

The pin/secondary stripe shall be white in color.

The reflective stripe shall run straight from the headlights 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, BODY PARTS & LABOR

There shall be a two-(2) year extended 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) year 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 one-(1) year, or the first 24,000 miles, whichever occurs 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, 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, 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.

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.

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.

NFPA REQUIRED EQUIPMENT, FD SUPPLIED

The loose equipment as outlined in NFPA 1901, 2009 edition, section 5.7.1 and 5.8.3 shall be provided by the fire department unless it is listed in this proposal. All loose equipment shall be installed on the apparatus before placed in emergency service, unless the fire department waives NFPA section 4.21.

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.

BRACKETS, ATTIC LADDER

Ziamatic model FLBA attic ladder brackets with aluminum stirrup shall be installed on the right side, designed to hold one-(1) Alco-Lite folding attic ladder.

SUCTION HOSE, 6"

There shall be two-(2) 10' x 6" sections of Kocheck PVC flexible suction hose supplied with the apparatus. Lightweight aluminum couplings shall be provided on the suction hose. A long handle female swivel shall be provided on one end and a rocker lug male shall be provided for the other end.

STRAINER, 6" BARREL

There shall be one-(1) Kocheck BS60C, 6" chrome plated barrel strainer supplied with the apparatus. The strainer shall have a 6" NH female connection.

VALVE(S), PISTON INTAKE

Two (2) Akron Brass Style 7983 Revolution intake valve shall be provided. The intake valve shall be constructed of lightweight, corrosion-resistant, hard-anodized aluminum and stainless steel. To protect against corrosion, the casting shall be coated with a powder coat finish and all components on the wet side of the valve shall be constructed from stainless steel. The valve shall have an adjustable (50-250 psi / 3.4-17.2 bar) relief valve, 3/4" (19.1 mm) air bleeder that discharges at the same location as the pressure relief valve, an inlet directly in line with the waterway, a stainless ball sector, durable non-stick seat, and a minimum 4-1/2" (114.3 mm) diameter waterway. A position indicator shall be included to indicate position of ball. A 12-1/2" diameter hand-wheel shall be included to operate valve open and close functions. The valve shall not exceed 7 psi (0.5 bar) friction loss at 2000 GPM (7600 LMP) and 12-3/4" (323.9 mm) depth. The valve shall carry a 10 year warranty against corrosion and manufacturer defects.

Configuration shall be:

Inlet: 5" Storz

Outlet: 6" NH, LONG HANDLE FEMALE

MONITOR

There shall be an Elkhart Stinger, Model 8297-25 monitor provided with the apparatus. Some of the standard features are: flow efficient 3" waterway, fully enclosed worm gear, hand wheel controlled vertical travel, safety stop at 35 degrees above horizontal, safety lock for base release, 360 degree horizontal rotation, liquid filled pressure gauge, convenient carrying handle, flows up to 1250 GPM, and two guns in one-portable and deck. It shall include stream shaper, stacked tips, and portable ground base.

Bisbee Fire Department
Option #1 KME Demo GSO#9628 2-Door Side-Mount Commercial Pumper

Demo unit #9628 is currently completed and is being used for demo purposes. Anticipated delivery time of this unit would be 2-3 weeks after receipt of an order.

Pricing

Base Price: \$240,233.00

Delivery to Bisbee: \$3,500

Tax: \$23,398.37

TOTAL: \$267,131.37

Options

1. Scene Lighting: Currently, scene lights are already included on the rear of the truck. To add scene lights to each side of the body would cost \$1,600.00 per pair. If you would like one light on each side of the body, the cost would be \$1,600.00. If you would like two lights on each side of the body, the cost would be \$3,200.00. This is to have all of the scene lights be the same.
2. Deck Gun: \$1,800.00
3. Intake Valve: \$1,100.00
4. Change the side striping to blue with white accent stripes: charge of \$1,200.00
5. Add "Bisbee Fire Department" in matching letters to the front cab doors on each side: charge of \$850.00
6. Repaint the entire truck to match: The truck is currently painted red.

***NOTE:** Pricing for the options does not include any applicable tax. The sales tax rate is 9.6%.

Bisbee Fire Department
Option #2 KME Demo GSO#9714 4-Door Commercial Top-Mount Pumper

Demo unit #9714 is currently completed and is being used for demo purposes in Phoenix. Anticipated delivery time of this unit would be 2-3 weeks after receipt of an order.

Pricing

Base Price: \$224,322.00

Delivery to Bisbee: \$500.00 (Delivered from Phoenix)

Tax: \$21,582.91

TOTAL: \$246,404.91

Options

1. Scene Lighting: Currently, scene lights are already included on the rear of the truck. To add scene lights to each side of the body would cost \$1,100.00. This would put one large light on each side of the pump house.
2. Deck Gun: \$1,800.00
3. Intake Valve: \$1,100.00
4. Change the side striping to blue with white accent stripes: charge of \$1,200.00
5. Add "Bisbee Fire Department" in matching letters to the front cab doors on each side: charge of \$850.00
6. Repaint the entire truck to match: The truck is currently painted red.

*NOTE: Pricing for the options does not include any applicable tax. The sales tax rate is 9.6%.

Bisbee Fire Department
Option #3 KME Demo GSO#9430 4-Door Mini-Pumper

Demo unit #9430 is currently in production. Anticipated delivery time of this unit would be 90-120 days after receipt of an order.

Pricing

Base Price: \$206,275.00

Delivery to Bisbee: \$3,500

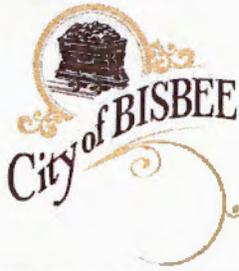
Tax: \$20,138.40

TOTAL: \$229,913.40

Options

1. Scene Lighting: Push up pole scene lights are already included.
2. Deck Gun: Not available. However, a remote turret is mounted on the front bumper and can be used as a deck gun with a lower flow.
3. Intake Valve: \$1,200.00
4. Change the side striping to blue with white accent stripes: charge of \$800.00
5. Add "Bisbee Fire Department" in matching letters to the front cab doors on each side: charge of \$350.00
6. Repaint the entire truck to match: The truck is currently painted red.

*NOTE: Pricing for the options does not include any applicable tax. The sales tax rate is 9.6%.



Job Description
Administrative Services Director

TITLE:	Administrative Services Director	JOB CODE:	1620
DEPARTMENT:	Finance Department	FLSA:	Exempt
SALARY RANGE:	\$58,244 - \$87,366	CLASSIFICATION:	Non-classified
PREPARED:	January 2016	UPDATED:	January 2016

Summary: Under administrative direction, plans, organizes and directs the operations and staff of the Finance Department; serves as the Chief Financial Officer and Treasurer for the City; ensures the integrity of the City's financial condition, records and reporting; develops and implements policies, procedures and internal controls; ensures compliance with all laws and regulations.

Supervision Exercised: Exercise direct and general supervision over Finance and Budget, Procurement, and Risk Management. Works with the City insurance provider on Risk Management matters and serves as member on Boards and Commissions as assigned.

Representative Job Duties: *The list that follows is not intended as a comprehensive list; it is intended to provide a representative summary of the major duties and responsibilities. Incumbent(s) may not be required to perform all duties listed, and may be required to perform additional, position-specific tasks.*

- Develops and implements Department objectives, policies and procedures; schedules operations based on fiscal priorities and community needs; ensures the integrity of the accounting system and compliance with GAAP, GASB statements, applicable state and federal laws and requirements, and sound internal controls.
- Directs Department operations; provides leadership, direction and coaching to employees; evaluates Department issues, and recommends and implements solutions; prioritizes and assigns tasks and projects; trains and evaluates staff; counsels, coaches and instructs employees as required; develops staff skills and conducts performance evaluations.
- Troubleshoots financial operating problems; analyzes financial transactions to resolve problems and improve processes and controls; coordinates with departments to improve their financial processes and financial controls.
- Manages general accounting functions including financial reporting, account coding, account balancing and reconciliation, accounts payable, accounts receivable, payroll and collections; maintains accounting records, ledgers and controls.
- Assists in the development and maintenance of the City operating and capital budgets; works with department heads to troubleshoot financial transactions and budgets; prepares special and recurring reports; recommends and implements changes to existing policies.
- Projects and forecasts budget, revenue and expenditures; assists in the preparation of the draft budget document and ordinance for presentation to City Council for budgetary and appropriation decisions, and reviews budget items prepared by other staff members.
- Coordinates annual external audit; compiles and prepares materials to support auditors; evaluates and responds to audit recommendations.
- Oversees cash and debt management; coordinates debt issuances; prepares revenue and expenditure projections and analysis for determining property tax and utility rate recommendations for City Council.

Job Description
Administrative Services Director

- Reviews revenues and expenditures to ensure compliance with the appropriation ordinance; monitors shifts in revenue trends and communicates to the City Manager, supervisors, City Council and other parties.
- Prepares year-end close of financial records, researches proper accounting methods and prepares general ledger entries for accounting issues.
- Invests cash and maintains required cash levels in City Bank accounts; wires and transfers funds, and acts as liaison with banking institutions for various services.
- Plans, prioritizes and reviews work of assigned department staff and resolves administrative issues.
- Attends budget related Council meetings and work sessions, management staff meetings, conferences and training classes, and other required functions.
- Serves on Boards and Commissions as assigned.
- Performs related duties as assigned.

Required Knowledge and Skills:

- In depth knowledge of Generally Accepted Accounting Principles and Generally Accepted Auditing Principles related to municipal budgetary administration and program development.
- **In depth knowledge of State of Arizona procurement code as prescribed by the National Institute of Government Purchasing.**
- In depth knowledge of City policies and procedures or equivalent knowledge of and experience in understanding and applying similar policies and procedures of another employer.
- In depth knowledge of public administration with particular emphasis on the principles, methods, and practices of municipal finance.
- In depth knowledge of laws governing medical benefits.
- In depth knowledge of management and supervisory principles and practices.
- In depth knowledge of budget management methods and techniques.
- In depth knowledge of basic laws, ordinances and regulations underlying municipal finance.
- In depth knowledge and understanding of cash management, investment, and banking relationships.
- High level of skill in assessing municipal programs and proposed policies in terms of their financial and administrative implications.
- High level of skill in analyzing a variety of financial problems and making sound recommendations and preparing working procedures.
- High level of skill in formulating and administering broad accounting and financial policies.
- High level of skill in effectively managing, supervising and evaluating assigned staff.
- High level of skill in effective oral and written communications.
- High level of skill in establishing and maintaining effective working relationships with associate personnel, other City employees and the general public.
- High level of skill in the use of a personal computer and standard business and project management software.
- High level of skill in following and effectively communicating verbal and written instructions.

Education, Experience, and Certifications:

- Bachelor's Degree in Accounting, Finance, or Public or Business Administration and five (5) years of municipal accounting or finance experience, including three (3) years in a supervisory capacity or equivalent combination of education and experience which provides the required knowledge, skills and abilities.
- State of Arizona class D driver's license. (preferred)

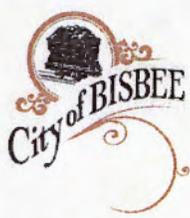
Environmental Factors and Conditions/Physical Requirements:

- Work is performed in an office environment.
- May be subject to repetitive motion such as typing, data entry and vision to monitor.
- May be subject to extended periods of intense concentration in the review of fiscal and accounting reports.
- May be subject to bending, reaching, kneeling and lifting such as retrieving files, records, and general ledgers.

Equipment and Tools Utilized:

- Equipment utilized includes computerized and conventional office equipment.

Approved by Mayor and Council on



REQUEST FOR MAYOR & COUNCIL ACTION
Session of: February 2, 2015

Regular Special

DATE ACTION SUBMITTED: <u>January 27, 2016</u>	
REGULAR <input checked="" type="checkbox"/>	CONSENT <input type="checkbox"/>
TYPE OF ACTION:	
RESOLUTION <input type="checkbox"/>	ORDINANCE <input type="checkbox"/>
FORMAL ACTION <input checked="" type="checkbox"/>	OTHER <input checked="" type="checkbox"/>
SUBJECT: DISCUSSION AND POSSIBLE APPROVAL OF THE JOB DESCRIPTION AND POSITION OF THE LIBRARY MANAGER	

FROM: JESTIN JOHNSON, CITY MANAGER

RECOMMENDATION: Approve the Library Manager Job Description

PROPOSED MOTION: I move that we approve the Job Description and Position of the Library Manager.

DISCUSSION: Currently, the city of Bisbee operates with (1.0) Library Director- Vacant, (1.0) Library Services Coordinator, (.5) Library Programmer- Recently Filled, and (.5) Library Assistant. In the case of creating a Library Manager position, I am asking the approval by Mayor and Council to consider creating this position due to the reality of library operations.

The City of Bisbee is a part of the Cochise County Library District, within the District, the three library systems that have Library Director's with a Master of Library Sciences Degree, which are Sierra Vista Library, Cochise County, and the City of Douglas. Given the difference with the population served and circulation volume, I am looking for managerial flexibility as we manage the day-to-day operation of the Copper Queen Community Library. It is also important for us to consider complexity or lack thereof in our library operations.

In the case of Bisbee, due to our budget constraints, patrons served, number of volunteers, and existing staff, the City would serve itself well by having a Library Manager, who has similar responsibilities as a Director, but still meets the Professional Exemption Test as outlined by the Fair Labor and Standards Act.

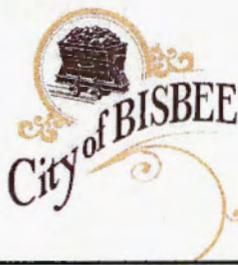
FISCAL IMPACT:

DEPARTMENT LINE ITEM ACCOUNT:

BALANCE IN LINE ITEM IF APPROVED: \$

Prepared by: Jestin Johnson
Jestin Johnson, City Manager

Reviewed by: Ashlee Coronado
Ashlee Coronado, City Clerk



TITLE:	Library Manager	JOB CODE:	1820
DEPARTMENT:	Library	FLSA:	Exempt
SALARY RANGE:	\$24,542 - \$44,390	CLASSIFICATION:	Non- Classified
PREPARED:	January 2016	UPDATED:	January 2016

Summary: Under administrative direction, plans, organizes and directs the operations and staff of the Library; prioritizes and schedules major projects; and develops and manages the operating and grant budgets; serves as Librarian.

Representative Job Duties: *The list that follows is not intended as a comprehensive list; it is intended to provide a representative summary of the major duties and responsibilities. Incumbent(s) may not be required to perform all duties listed, and may be required to perform additional, position-specific tasks.*

- Develops and implements short and long term goals, objectives and policies for the Library; allocates resources to achieve these goals; schedules activities based on established priorities and community needs; ensures operations are in compliance with City policies and objectives.
- **Manages** Library operations; provides leadership, direction and coaching to employees; evaluates Library issues; determines and implements solutions; prioritizes and assigns tasks and projects; trains and evaluates staff; counsels, coaches and instructs employees as required; develops staff skills and conducts performance evaluations.
- Responsible for volunteer management operations such as recruiting, training and overseeing volunteers.
- Develops and monitors Library operating and grant budgets; monitors and oversees departmental expenditures; prepares special and recurring reports, grants, proposals and contracts; recommends and implements changes to existing policies.
- Prepares quarterly and annual reports to the City and the State; maintains and analyzes operating statistics; updates programs to continually improve services to the patrons and the community.
- Manages and directs all of the Library's activities, including reference, circulation, collection development, cataloguing and community programs; oversees and approves special events, adult programs and children's activities.
- Researches funding opportunities for programs and facilities development; prepares and reviews grant requests and approves submittals as appropriate; oversees and performs grant reporting.
- Directs and provides reference services; responds to requests for information, researches questions, and provides general and complex information to the general public and library patrons.
- Selects and acquires materials to satisfy the informational and recreational needs of the patrons; manages and oversees collection development; responds to requests from the public for purchases; reviews materials for purchase; and approves additions and deletions to collection.
- Serves as liaison with the Friends of the Library Group and Library Advisory Board; provides and ensures a high level of customer service to patrons in specific and to the community in general.
- Coordinates operations with the Cochise County Library District and with other libraries in the County.
- Approves and accepts gifts and donations to the Library.
- Conducts analysis and determines programming changes as needed.
- **Oversees** programs to promote Library services to the community; reviews and authorizes all Library publicity.

Job Description
Library Manager

- Oversees and maintains hardware, software, and website related to library network operations.
- Attends meetings on library and citywide issues relating to the library; represents department to internal and external agencies and professional associations.
- Performs and participates in special projects as assigned.
- Performs other related duties as assigned.

Required Knowledge and Skills:

- In depth knowledge of professional Library principles, practices and administration.
- In depth knowledge of Library programs and services.
- In depth knowledge of personal computers, standard business software and specialized software for library applications.
- In depth knowledge of City policies and procedures or equivalent knowledge of and experience in understanding and applying similar policies and procedures of another employer.
- In depth knowledge of management and supervisory principles, practices and methods.
- In depth knowledge of personnel training principles, practices and methods.
- In depth knowledge of budget administration methods and techniques.
- High level of skill in effective oral and written communications.
- High level of skill in establishing and maintaining effective working relationships with City staff and the community.
- High level of skill in library collection development.
- High level of skill in developing, implementing and interpreting City personnel policies and procedures.
- High level of skill in conducting analysis, developing recommendations and preparing comprehensive reports.
- High level of skill in planning, developing and implementing Library policies, procedures and objectives.
- High level of skill in effectively supervising and delegating duties to assigned staff.
- High level of skill in resolving customer complaints and concerns.

Education, Experience, and Certifications:

- **Bachelor's Degree** and five (5) years library experience, including two (2) years in a supervisory capacity or an equivalent combination of education and experience which provides the required knowledge, skills and abilities.
- State of Arizona class D driver's license.

Environmental Factors and Conditions/Physical Requirements:

- Work is performed in an office environment.
- May be subject to repetitive motion such as typing, data entry and vision to monitor.
- May be subject to bending, reaching, kneeling and lifting such as retrieving files, records, and reports.

Equipment and Tools Utilized:

- Equipment utilized includes computerized and conventional office equipment.

Approved by Mayor and Council on



REQUEST FOR MAYOR & COUNCIL ACTION

Session of: February 2, 2016

Regular Special

DATE ACTION SUBMITTED: January 21, 2016

REGULAR CONSENT

TYPE OF ACTION:
RESOLUTION ORDINANCE FORMAL ACTION OTHER

SUBJECT: DISCUSSION AND POSSIBLE APPROVAL OF THE GRANT AGREEMENT BETWEEN THE CITY OF BISBEE AND THE ARIZONA DEPARTMENT OF HOMELAND SECURITY FOR OPERATION STONEGARDEN GRANT, AWARD # 150415-01, IN THE AMOUNT OF \$115,100, WHICH INCLUDES \$100,100 FOR OVERTIME AND EMPLOYEE RELATED EXPENSES AND \$15,000 FOR MILEAGE

FROM: Albert B. Echave, Chief of Police

RECOMMENDATION: Recommend Approval

PROPOSED MOTION: I move to approve the Grant Agreement between the City of Bisbee and the Arizona Department of Homeland Security for Operation StoneGarden grant, award # 150415-01, in the amount of \$115,100, which includes \$100,100 for Overtime and Employee Related Expenses and \$15,000 for Mileage.

DISCUSSION:
Grant Agreement # 150415-01. Attached is an agreement for Operation StoneGarden grant from January 1, 2016 through December 31, 2016, covering Overtime and Mileage. The total amount awarded is \$115,100 which includes Overtime and Benefits plus Mileage for Vehicles used while working StoneGarden.

FISCAL IMPACT: 115,100.00

DEPARTMENT LINE ITEM ACCOUNT: 5340-11050

BALANCE IN LINE ITEM IF APPROVED: N/A

Prepared by:
Albert B. Echave
Chief of Police

Reviewed by:
Justin Johnson
City Manager

SUBRECIPIENT AGREEMENT
Operation Stonegarden Grant Program – Overtime and Mileage

15-AZDOHS-OPSG-150415-01

Enter Subrecipient Agreement Number Above (e.g., 150xxx-xx)

Between

The Arizona Department of Homeland Security
And
City of Bisbee Police Department

Enter the Name of the Subrecipient Agency Above

WHEREAS, A.R.S. § 41-4254 charges the Arizona Department of Homeland Security (AZDOHS) with the responsibility of administering funds.

THEREFORE, it is agreed that the AZDOHS shall provide funding to the

City of Bisbee Police Department

Enter the Name of the Subrecipient Agency Above

(subrecipient) for services under the terms of this Subrecipient Agreement.

I. PURPOSE OF AGREEMENT

The purpose of this Agreement is to specify the responsibilities and procedures for the subrecipient's role in administering homeland security grant funds.

II. TERM OF AGREEMENT, TERMINATION AND AMENDMENTS

This Agreement shall become effective on **January 1, 2016** and shall terminate on **December 31, 2016**. The obligations of the subrecipient as described herein will survive termination of this agreement.

III. DESCRIPTION OF SERVICES

The subrecipient shall provide the services for the State of Arizona, Arizona Department of Homeland Security as approved in the grant application titled "**OPSG Overtime and Mileage**" and funded at

\$ 115,100 (as may have been modified by the award letter).

Enter Funded Amount Above

IV. MANNER OF FINANCING

The AZDOHS shall under the U.S. Department of Homeland Security grant #EMW-2015-SS-00084-S01 and CFDA #97.067:

a) Provide up to **\$ 115,100** to the subrecipient for services provided under Paragraph III. Enter Funded Amount Above

b) Payment made by the AZDOHS to the subrecipient shall be on a reimbursement basis only and is conditioned upon receipt of proof of payment and applicable, accurate and complete reimbursement documents, as deemed necessary by the AZDOHS, to be submitted by the subrecipient. A listing of acceptable documentation can be found at www.azdohs.gov. Payments will be contingent upon receipt of all reporting requirements of the subrecipient under this Agreement.

V. FISCAL RESPONSIBILITY

It is understood and agreed that the total amount of the funds used under this Agreement shall be used only for the project as described in the application. Any modification to quantity or scope of work must be preapproved in writing by the AZDOHS. Therefore, should the project not be completed, the subrecipient shall reimburse said funds directly to the AZDOHS immediately. If the project is completed at a lower cost than the original budget called for, the amount reimbursed to the subrecipient shall be for only the amount of dollars actually spent by the subrecipient in accordance with the approved application. For any funds received under this Agreement for which expenditure is disallowed by an audit exemption or otherwise by the AZDOHS, the State, or Federal government, the subrecipient shall reimburse said funds directly to the AZDOHS immediately.

VI. FINANCIAL AUDIT/PROGRAMMATIC MONITORING

The subrecipient agrees to terms specified in A.R.S. § 35-214 and § 35-215.

a) In addition, in compliance with the Federal Single Audit Act (31 U.S.C. par. 7501-7507), as amended by the Single Audit Act Amendments of 1996 (P.L. 104 to 156), the subrecipient must have an annual audit conducted in accordance with 2 CFR 200 (Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards) if the subrecipient expends more than \$750,000 from Federal awards. If the subrecipient has expended more than \$750,000 in Federal dollars, a copy of the subrecipient's audit report for the previous fiscal year and subsequent years within the period of performance is due annually to AZDOHS within nine (9) months of the subrecipient's fiscal year end.

b) Subrecipients will be monitored periodically by the AZDOHS staff, both programmatically and financially, to ensure that the project goals, objectives, performance requirements, timelines, milestone completion, budgets, and other related program criteria are being met. Monitoring will be accomplished through a combination of office-based reviews and on-site monitoring visits. Monitoring can involve aspects of the work involved under this contract including but not limited to the review and analysis of the financial, programmatic, equipment, performance, and administrative issues relative to each program and will identify areas where technical assistance and other support may be needed.

VII. APPLICABLE FEDERAL REGULATIONS

The subrecipient must comply with the Notice of Funding Opportunity (NOFO) Office of Management and Budget Code of Federal Regulations (CFR) 2 CFR 200: Uniform Guidance. The NOFO for this program is hereby incorporated into your award agreement by reference. By accepting this award, the subrecipient agrees that all allocation and use of funds under this grant will be in accordance with the requirements contained in the NOFO.

Where applicable and with prior written approval from AZDOHS/DHS/FEMA, HSGP Program recipients using funds for construction projects must comply with the *Davis-Bacon Act* (40 U.S.C. 3141 *et seq.*). Recipients must ensure that their contractors or subcontractors for construction projects pay workers no less than the prevailing wages for laborers and mechanics employed on projects of a character similar to the contract work in the civil subdivision of the state in which the work is to be performed. Additional information regarding compliance with the *Davis-Bacon Act*, including Department of Labor (DOL) wage determinations, is available from the following website <http://www.dol.gov/compliance/laws/comp-dbra.htm>.

Included within the above mentioned guidance documents are provisions for the following:

National Incident Management System (NIMS)

The subrecipient agrees to remain in compliance with National Incident Management System (NIMS) implementation initiatives as outlined in the applicable Notice of Funding Opportunity (NOFO).

Environmental Planning and Historic Preservation

The subrecipient shall comply with Federal EHP regulations, laws and Executive Orders as applicable. Subrecipients proposing projects that have the potential to impact the environment, including but not limited to construction of communication towers, modification or renovation of existing buildings, structures and facilities, or new construction including replacement of facilities, must participate in the DHS/FEMA EHP review process. The EHP review process involves the submission of a detailed project description that explains the goals and objectives of the proposed project along with supporting documentation so that DHS/FEMA may determine whether the proposed project has the potential to impact environmental resources and/or historic properties. In some cases, DHS/FEMA is also required to consult with other regulatory agencies and the public in order to complete the review process. The EHP review process must be completed before funds are released to carry out the proposed project. DHS/FEMA will not fund projects that are initiated without the required EHP review.

Additionally, all recipients are required to comply with DHS/FEMA EHP Policy Guidance. This EHP Policy Guidance can be found in FP 108-023-1, Environmental Planning and Historic Preservation Policy Guidance, and FP 108.24.4, Environmental Planning and Historical Preservation Policy.

Consultants/Trainers/Training Providers

Billings for consultants/trainers/training providers must include at a minimum: a description of services; dates of services; number of hours for services performed; rate charged for services; and, the total cost of services performed. Consultant/trainer/training provider costs must be within the prevailing rates; must be obtained under consistent treatment with the procurement policies of the subrecipient and 2 CFR 200; and shall not exceed the maximum of \$450 per day per consultant/trainer/training provider unless prior written approval is granted by the AZDOHS. In addition to the per day \$450 maximum amount, the consultant/trainer/training provider may be reimbursed reasonable travel, lodging, and per diem not to exceed the State rate. Itemized receipts are required for lodging and travel reimbursements. The subrecipient will not be reimbursed costs other than travel, lodging, and per diem on travel days for consultants/trainers/training providers.

Contractors/Subcontractors

The subrecipient may enter into written subcontract(s) for performance of certain of its functions under the contract in accordance with terms established in 2 CFR 200 and the NOFO. The subrecipient agrees and understands that no subcontract that the subrecipient enters into with respect to performance under this Agreement shall in any way relieve the subrecipient of any responsibilities for performance of its duties. The subrecipient shall give the AZDOHS immediate notice in writing by certified mail of any action or suit filed and prompt notice of any claim made against the subrecipient by any subcontractor or vendor which, in the opinion of the subrecipient, may result in litigation related in any way to the Agreement with the AZDOHS.

Personnel and Travel Costs

All grant funds expended for personnel, travel, lodging, and per diem must be consistent with the subrecipient's policies and procedures; and the State of Arizona Accounting Manual (SAAM); must be applied uniformly to both federally financed and other activities of the agency; and will be reimbursed at the most restrictive allowability and rate. At no time will the subrecipient's

reimbursement(s) exceed the State rate established by the Arizona Department of Administration, General Accounting Office Travel Policies: <https://gao.az.gov>.

Procurement

The subrecipient shall comply with all internal agency procurement rules/policies and must also comply with Federal procurement rules/policies as outlined in section VII and all procurement must comply with Arizona State procurement code and rules. The Federal intent is that all Homeland Security Funds are awarded competitively. The subrecipient shall not enter into a Noncompetitive (Sole or Single Source) Procurement Agreement, unless prior written approval is granted by the AZDOHS. The Noncompetitive Procurement Request Form and instructions are located on the AZDOHS website: www.azdohs.gov/grants/.

Training and Exercise

The subrecipient agrees that any grant funds used for training and exercise must be in compliance with the applicable NOFO. All training must be approved through the ADEM/AZDOHS training request process prior to execution of training contract(s). All exercises must utilize the FEMA Homeland Security Exercise and Evaluation Program (HSEEP) guidance for exercise design, development, conduct, evaluation and reporting. Subrecipient agrees to:

- a) Submit an exercise summary and attendance/sign-in roster to AZDOHS with all exercise reimbursement requests.
- b) Within 90 days of completion of an exercise, or as prescribed by the most current HSEEP guidance, the exercise host subrecipient is required to email the After Action Report/Improvement Plan (AAR/IP) to the local County Emergency Manager, the AZDOHS Strategic Planner, and the Arizona Division of Emergency Management (ADEM) Exercise Branch.

Nonsupplanting Agreement

The subrecipient shall not use funds to supplant State or Local funds or other resources that would otherwise have been made available for this program/project. Further, if a position created by a grant is filled from within, the vacancy created by this action must be filled within thirty (30) days. If the vacancy is not filled within thirty (30) days, the subrecipient must stop charging the grant for the new position. Upon filling the vacancy, the subrecipient may resume charging for the grant position.

E-Verify

Compliance requirements for A.R.S. § 41-4401—immigration laws and E-Verify requirement.

- a) The subrecipient warrants compliance with all Federal immigration laws and regulations relating to employees and warrants its compliance with Section A.R.S. § 23-214, Subsection A. (That subsection reads: "After December 31, 2007, every employer, after hiring an employee, shall verify the employment eligibility of the employee through the E-Verify program).
- b) A breach of a warranty regarding compliance with immigration laws and regulations shall be deemed a material breach of the contract and the subrecipient may be subject to penalties up to and including termination of the Agreement.
- c) The AZDOHS retains the legal right to inspect the papers of any employee who works on the Agreement to ensure that the subrecipient is complying with the warranty under paragraph (a) above.

Property Control

Effective control and accountability must be maintained for all property. The subrecipient must adequately safeguard all such property and must assure that it is used for authorized purposes as described in the NOFO, grant application, and Code of Federal Regulations 2 CFR 200. The subrecipient shall exercise caution in the use, maintenance, protection and preservation of such property.

- a) Equipment shall be used by the subrecipient in the program or project for which it was acquired as long as needed, whether or not the program or project continues to be supported by federal grant funds. Subrecipient is required to maintain and utilize equipment as outlined in 2 CFR 200.313 - Equipment. Any loss, damage, or theft shall be investigated and reported to the AZDOHS.
- b) Nonexpendable Property and Capital Assets:
 1. Nonexpendable Property is property which has a continuing use, is not consumed in use, is of a durable nature with an expected service life of one or more years, has an acquisition cost of \$5,000 (Five Thousand Dollars) or more, and does not become a fixture or lose its identity as a component of other equipment or systems.
 2. A Capital Asset is any personal or real property, or fixture that has an acquisition cost of \$5,000 (Five Thousand Dollars) or more per unit and a useful life of more than one year.
- c) A Property Control Form (if applicable) shall be maintained for the entire scope of the program or project for which property was acquired through the end of its useful life and/or disposition. All Nonexpendable Property and Capital Assets must be included on the Property Control Form. The subrecipient shall provide AZDOHS a copy of the Property Control Form with the final quarterly programmatic report. A Property Control Form can be located at www.azdohs.gov/Grants/. The subrecipient agrees to be subject to equipment monitoring and auditing by state or federal authorized representatives to verify information.
- d) A physical inventory of Nonexpendable Property and Capital Assets must be taken and the results reconciled with the Property Control Form at least once every two years.
 1. A control system must be developed to ensure adequate safeguards to prevent loss, damage, or theft of the property. Any loss, damage, or theft shall be investigated and reported to AZDOHS.
 2. Adequate maintenance procedures must be developed to keep the property in good condition.
- e) When Nonexpendable Property and/or Capital Assets are no longer in operational use by the subrecipient, an updated Property Control Form must be submitted to AZDOHS immediately. The disposition of equipment shall be in compliance with the AZDOHS Disposition Guidance and 2 CFR 200. If the subrecipient is requesting disposition of Capital Assets for reasons other than theft, destruction, or loss, the subgrantee must submit an Equipment Disposition Request Form and receive approval prior to the disposition. The Equipment Disposition Request Form can be found at www.azdohs.gov/Grants/.

Allowable Costs

The allowability of costs incurred under this agreement shall be determined in accordance with the general principles of allowability and standards for selected cost items as set forth in the applicable Code of Federal Regulations, authorized equipment lists, and guidance documents referenced above.

- a) The subrecipient agrees that grant funds for any indirect costs that may be incurred are in accordance with 2 CFR 200 and the NOFO.
- b) The subrecipient agrees that grant funds are not to be expended for any Management and Administrative (M&A) costs that may be incurred by the subrecipient for administering these funds unless explicitly applied for and approved in writing by the AZDOHS and shall be in compliance with the applicable NOFO.

VIII. DEBARMENT CERTIFICATION

The subrecipient agrees to comply with the Federal Debarment and Suspension regulations as outlined in the "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – Lower Tier Covered Transactions." All recipients must comply with Executive Orders 12549 and 12689, which provide protection against waste, fraud, and abuse by debarment or suspending those persons deemed irresponsible in their dealings with the Federal government.

IX. FUNDS MANAGEMENT

The subrecipient must maintain funds received under this Agreement in separate ledger accounts and cannot mix these funds with other sources. The subrecipient must manage funds according to applicable Federal regulations for administrative requirements, costs principles, and audits. The subrecipient must maintain adequate business systems to comply with Federal requirements. The business systems that must be maintained are:

- Financial Management
- Procurement
- Personnel
- Property
- Travel

A system is adequate if it is 1) written; 2) consistently followed – it applies in all similar circumstances; and 3) consistently applied – it applies to all sources of funds.

X. REPORTING REQUIREMENTS

Regular reports by the subrecipient shall include:

a) **Programmatic Reports**

The subrecipient shall provide quarterly programmatic reports to the AZDOHS within fifteen (15) working days of the last day of the quarter in which services are provided. The subrecipient shall use the form provided by the AZDOHS to submit quarterly programmatic reports. The report shall contain such information as deemed necessary by the AZDOHS. The subrecipient shall use the Quarterly Programmatic Report form, which is posted at www.azdohs.gov/Grants/. If the scope of the project has been fully completed and implemented, and there will be no further updates, then the quarterly programmatic report for the quarter in which the project was completed will be sufficient as the final report. The report should be marked as final and should be inclusive of all necessary and pertinent information regarding the project as deemed necessary by the AZDOHS. Quarterly programmatic reports shall be submitted to the AZDOHS until the entire scope of the project is completed.

b) **Quarterly Programmatic Reports are due:**

January 15 (for the period from October 1– December 31)

April 15 (for the period from January 1 – March 31)

July 15 (for the period from April 1 – June 30)

October 15 (for the period from July 1 – September 30)

c) **Final Quarterly Report:**

The final quarterly report is due no more than fifteen (15) days after the end of the performance period. Subrecipients may submit a final quarterly report prior to the end of the

performance period if the scope of the project has been fully completed and implemented. The Property Control Form is due with the final quarterly report (if applicable).

d) Property Control Form – if applicable:

The subrecipient shall provide the AZDOHS a copy of the Property Control Form with the final quarterly report.

a. In case of equipment disposition:

The Property Control Form shall be updated and a copy provided to AZDOHS no more than forty-five (45) calendar days after equipment disposition, if applicable. The disposition of equipment must be in compliance with the AZDOHS Disposition Guidance and 2 CFR 200.313.

e) Financial Reimbursements

The subrecipient shall provide as frequently as monthly but not less than quarterly requests for reimbursement. Reimbursement requests are only required when expenses have been incurred. Reimbursement requests shall be submitted with the Reimbursement Form provided by the AZDOHS staff. The subrecipient shall submit a final reimbursement request for expenses received and invoiced prior to the end of the termination of this Agreement no more than **forty-five (45) calendar days** after the end of the Agreement. Requests for reimbursement received later than forty-five (45) days after the Agreement termination will not be paid. The final reimbursement request as submitted shall be marked FINAL.

The AZDOHS requires that all requests for reimbursement are submitted via U.S. mail (United States Postal Service), FedEx, UPS, etc. or in person. Reimbursement requests submitted via fax or by any electronic means will not be accepted.

The AZDOHS reserves the right to request and/or require any supporting documentation it feels necessary in order to process reimbursements.

All reports shall be submitted to the contact person as described in Paragraph XL, NOTICES, of this Agreement.

XI. ASSIGNMENT AND DELEGATION

The subrecipient may not assign any rights hereunder without the express, prior written consent of both parties.

XII. AMENDMENTS

Any change in this Agreement including but not limited to the Description of Services and budget described herein, whether by modification or supplementation, must be accomplished by a formal Agreement amendment signed and approved by and between the duly authorized representative of the subrecipient and the AZDOHS. The AZDOHS shall have the right to immediately amend this Agreement so that it complies with any new legislation, laws, ordinances, or rules affecting this Agreement.

Any such amendment shall specify: 1) an effective date; 2) any increases or decreases in the amount of the subrecipient's compensation if applicable; 3) be titled as an "Amendment," and 4) be signed by the parties identified in the preceding paragraph. The subrecipient expressly and explicitly understands and agrees that no other method of communication, including any other document, correspondence, act, or oral communication by or from any person, shall be used or construed as an amendment or modification or supplementation to this Agreement.

XIII. US DEPARTMENT OF HOMELAND SECURITY AGREEMENT ARTICLES

Article A – Acceptance of Post Award Changes

In the event FEMA determines that changes are necessary to the award document after an award has been made, including changes to period of performance or terms and conditions, recipients will be notified of the changes in writing. Once notification has been made, any subsequent request for funds will indicate recipient acceptance of the changes to the award.

Article B - Disposition of Equipment Acquired Under the Federal Award

When original or replacement equipment acquired under this award by the recipient or its sub-recipients is no longer needed for the original project or program or for other activities currently or previously supported by DHS/FEMA, you must request instructions from DHS/FEMA to make proper disposition of the equipment pursuant to 2 CFR § 200.313.

Article C - DHS Specific Acknowledgements and Assurances

All recipients of financial assistance must acknowledge and agree—and require any subrecipients, contractors, successors, transferees, and assignees acknowledge and agree—to comply with applicable provisions governing DHS access to records, accounts, documents, information, facilities, and staff.

1. Recipients must cooperate with any compliance review or complaint investigation conducted by DHS.
2. Recipients must give DHS access to and the right to examine and copy records, accounts, and other documents and sources of information related to the grant and permit access to facilities, personnel, and other individuals and information as may be necessary, as required by DHS regulations and other applicable laws or program guidance.
3. Recipients must submit timely, complete, and accurate reports to the appropriate DHS officials and maintain appropriate backup documentation to support the reports.
4. Recipients must comply with all other special reporting, data collection, and evaluation requirements, as prescribed by law or detailed in program guidance.
5. If, during the past three years, the recipient has been accused of discrimination on the grounds of race, color, national origin (including limited English proficiency), sex, age, disability, religion, or familial status, the recipient must provide a list of all such proceedings, pending or completed, including outcome and copies of settlement agreements to the DHS awarding office and the DHS Office of Civil Rights and Civil Liberties.
6. In the event any court or administrative agency makes a finding of discrimination on grounds of race, color, national origin (including limited English proficiency), sex, age, disability, religion, or familial status against the recipient, or the recipient settles a case or matter alleging such discrimination, recipients must forward a copy of the complaint and findings to the DHS Component and/or awarding office.

The United States has the right to seek judicial enforcement of these obligations.

Article D - Use of DHS Seal, Logo and Flags

All recipients must obtain DHS's approval prior to using the DHS seal(s), logos, crests or reproductions of flags or likenesses of DHS agency officials, including use of the United States Coast Guard seal, logo, crests or reproductions of flags or likenesses of Coast Guard officials.

Article E - USA Patriot Act of 2001

All recipients must comply with the requirements of the Uniting and Strengthening America by Providing Appropriate Tools Required to Intercept and Obstruct Terrorism Act (USA PATRIOT Act), which amends 18 U.S.C. §§ 175–175c. Among other things, the USA PATRIOT Act prescribes criminal penalties for possession of any biological agent, toxin, or delivery system of a type or in a quantity that is not reasonably justified by a prophylactic, protective, bona fide research, or other peaceful purpose.

Article F - Trafficking Victims Protection Act of 2000

All recipients of financial assistance will comply with the requirements of the government-wide award term which implements Section 106(g) of the Trafficking Victims Protection Act (TVPA) of 2000, as amended (22 U.S.C. § 7104), located at 2 CFR Part 175. This is implemented in accordance with OMB Interim Final Guidance, Federal Register, Volume 72, No. 218, November 13, 2007.

In accordance with the statutory requirement, in each agency award under which funding is provided to a private entity, Section 106(g) of the TVPA, as amended, requires the agency to include a condition that authorizes the agency to terminate the award, without penalty, if the recipient or a subrecipient —

1. Engages in severe forms of trafficking in persons during the period of time that the award is in effect;
2. Procures a commercial sex act during the period of time that the award is in effect; or
3. Uses forced labor in the performance of the award or subawards under the award.

Full text of the award term is provided at 2 CFR § 175.15.

Article G - Non-supplanting Requirement

All recipients must ensure that Federal funds do not replace (supplant) funds that have been budgeted for the same purpose through non-Federal sources. Applicants or award recipients may be required to demonstrate and document that a reduction in non-Federal resources occurred for reasons other than the receipt of expected receipt of Federal funds.

Article H - Lobbying Prohibitions

All recipients must comply with 31 U.S.C. § 1352, which provides that none of the funds provided under an award may be expended by the recipient to pay any person to influence, or attempt to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any Federal action concerning the award or renewal.

Article I - Hotel and Motel Fire Safety Act of 1990

In accordance with Section 6 of the Hotel and Motel Fire Safety Act of 1990, 15 U.S.C. §2225(a), all recipients must ensure that all conference, meeting, convention, or training space funded in whole or in part with Federal funds complies with the fire prevention and control guidelines of the Federal Fire Prevention and Control Act of 1974, 15 U.S.C. §2225.

Article J - Fly America Act of 1974

All recipients must comply with Preference for U.S. Flag Air Carriers: Travel supported by U.S. Government funds requirement, which states preference for the use of U.S. flag air carriers (air carriers holding certificates under 49 U.S.C. §41102) for international air transportation of people and property to the extent that such service is available, in accordance with the International Air Transportation Fair Competitive Practices Act of 1974 (49 U.S.C. § 40118) and the interpretative

guidelines issued by the Comptroller General of the United States in the March 31, 1981, amendment to Comptroller General Decision B138942.

Article K - Federal Debt Status

All recipients are required to be non-delinquent in their repayment of any Federal debt. Examples of relevant debt include delinquent payroll and other taxes, audit disallowances, and benefit overpayments. See OMB Circular A-129 and form SF-424, item number 17 for additional information and guidance.

Article L - False Claims Act and Program Fraud Civil Remedies

All recipients must comply with the requirements of 31 U.S.C. § 3729 which set forth that no recipient of federal payments shall submit a false claim for payment. See also 38 U.S.C. § 3801-3812 which details the administrative remedies for false claims and statements made.

Article M - Duplication of Benefits

State, Local and Tribal recipients must comply with 2 CFR Part §225, Appendix A, paragraph (C)(3)(c), which provides that any cost allocable to a particular Federal award or cost objective under the principles provided for in this authority may not be charged to other Federal awards to overcome fund deficiencies.

Article N - Drug-Free Workplace Regulations

All recipients must comply with the Drug-Free Workplace Act of 1988 (412 U.S.C. § 701 et seq.), which requires that all organizations receiving grants from any Federal agency agree to maintain a drug-free workplace. These regulations are codified at 2 CFR 3001.

Article O - Copyright

All recipients must affix the applicable copyright notices of 17 U.S.C. § 401 or 402 and an acknowledgement of Government sponsorship (including award number) to any work first produced under Federal financial assistance awards, unless the work includes any information that is otherwise controlled by the Government (e.g., classified information or other information subject to national security or export control laws or regulations).

Article P - Best Practices for Collection and Use of Personally Identifiable Information (PII)

All award recipients who collect PII are required to have a publicly-available privacy policy that describes what PII they collect, how they use the PII, whether they share PII with third parties, and how individuals may have their PII corrected where appropriate. Award recipients may also find as a useful resource the DHS Privacy Impact Assessments guidance and template located at:http://www.dhs.gov/xlibrary/assets/privacy/privacy_pia_guidance_june2010.pdf and http://www.dhs.gov/xlibrary/assets/privacy/privacy_pia_template.pdf, respectively.

Article Q - Activities Conducted Abroad

All recipients must ensure that project activities carried on outside the United States are coordinated as necessary with appropriate government authorities and that appropriate licenses, permits, or approvals are obtained.

Article R - Acknowledgement of Federal Funding from DHS

All recipients must acknowledge their use of federal funding when issuing statements, press releases, requests for proposals, bid invitations, and other documents describing projects or programs funded in whole or in part with Federal funds.

Article S - Assurances, Administrative Requirements and Cost Principles

Recipients of DHS federal financial assistance must complete OMB Standard Form 424B Assurances – Non-Construction Programs. Certain assurances in this document may not be

applicable to your program, and the awarding agency may require applicants to certify additional assurances. Please contact the program awarding office if you have any questions. The administrative and audit requirements and cost principles that apply to DHS award recipients originate from 2 CFR Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards*, as adopted by DHS at 2 CFR Part 3002.

Article T - Age Discrimination Act of 1975

All recipients must comply with the requirements of the Age Discrimination Act of 1975 (42 U.S.C. § 6101 et seq.), which prohibits discrimination on the basis of age in any program or activity receiving Federal financial assistance.

Article U - Americans with Disabilities Act of 1990

All recipients must comply with the requirements of Titles I, II, and III of the Americans with Disabilities Act, which prohibits recipients from discriminating on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12101–12213).

Article V - Title VI of the Civil Rights Act of 1964

All recipients must comply with the requirements of Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq.), codified at 6 CFR Part 21 and 44 CFR Part 7, which provides that no person in the United States will, on the grounds of race, color, or national origin, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance.

Article W- Civil Rights Act of 1968

All recipients must comply with Title VIII of the Civil Rights Act of 1968, which prohibits recipients from discriminating in the sale, rental, financing, and advertising of dwellings, or in the provision of services in connection therewith, on the basis of race, color, national origin, religion, disability, familial status, and sex (42 U.S.C. § 3601 et seq.), as implemented by the Department of Housing and Urban Development at 24 CFR Part 100. The prohibition on disability discrimination includes the requirement that new multifamily housing with four or more dwelling units—i.e., the public and common use areas and individual apartment units (all units in buildings with elevators and ground-floor units in buildings without elevators)—be designed and constructed with certain accessible features (see 24 CFR § 100.201).

Article X - Limited English Proficiency (Civil Rights Act of 1964, Title VI)

All recipients must comply with the Title VI of the Civil Rights Act of 1964 (Title VI) prohibition against discrimination on the basis of national origin, which requires that recipients of federal financial assistance take reasonable steps to provide meaningful access to persons with limited English proficiency (LEP) to their programs and services. Providing meaningful access for persons with LEP may entail providing language assistance services, including oral interpretation and written translation. In order to facilitate compliance with Title VI, recipients are encouraged to consider the need for language services for LEP persons served or encountered in developing program budgets. Executive Order 13166, *Improving Access to Services for Persons with Limited English Proficiency* (August 11, 2000), requires federal agencies to issue guidance to recipients, assisting such organizations and entities in understanding their language access obligations. DHS published the required recipient guidance in April 2011, *DHS Guidance to Federal Financial Assistance Recipients Regarding Title VI Prohibition Against National Origin Discrimination Affecting Limited English Proficient Persons*, 76 Fed. Reg. 21755-21768, (April 18, 2011). The Guidance provides helpful information such as how a recipient can determine the extent of its obligation to provide language services; selecting language services; and elements of an effective plan on language assistance for LEP persons. For additional assistance and information regarding language access obligations, please refer to the DHS Recipient Guidance

<https://www.dhs.gov/guidance-published-help-department-supported-organizations-provide-meaningful-accesspeople-limited> and additional resources on <http://www.lep.gov>.

Article Y - SAFECOM

Recipients who receive awards made under programs that provide emergency communication equipment and its related activities must comply with the SAFECOM Guidance for Emergency Communication Grants, including provisions on technical standards that ensure and enhance interoperable communications.

Article Z - Title IX of the Education Amendments of 1975 (Equal Opportunity in Education Act)

All recipients must comply with the requirements of Title IX of the Education Amendments of 1972 (20 U.S.C. § 1681 et seq.), which provides that no person in the United States will, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any educational program or activity receiving Federal financial assistance. These regulations are codified at 6 CFR Part 17 and 44 CFR Part 19.

Article AA - Rehabilitation Act of 1973

All recipients must comply with the requirements of Section 504 of the Rehabilitation Act of 1973, 29 U.S.C. § 794, as amended, which provides that no otherwise qualified handicapped individual in the United States will, solely by reason of the handicap, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance. These requirements pertain to the provision of benefits or services as well as to employment.

Article AB - Energy Policy and Conservation Act

All recipients must comply with the requirements of 42 U.S.C. § 6201 which contain policies relating to energy efficiency that are defined in the state energy conservation plan issues in compliance with this Act.

Article AC - Patents and Intellectual Property Rights

Unless otherwise provided by law, recipients are subject to the Bayh-Dole Act, Pub. L. No. 96-517, as amended, and codified in 35 U.S.C. § 200 et seq. All recipients are subject to the specific requirements governing the development, reporting, and disposition of rights to inventions and patents resulting from financial assistance awards are in 37 CFR Part 401 and the standard patent rights clause in 37 CFR § 401.14.

Article AD- Procurement of Recovered Materials

All recipients must comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired by the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

Article AE - Contract Provisions for Non-federal Entity Contracts under Federal Awards

a) Contracts for more than the simplified acquisition threshold set at \$150,000.

All recipients who have contracts exceeding the acquisition threshold currently set at \$150,000, which is the inflation adjusted amount determined by Civilian Agency Acquisition Council and the Defense Acquisition Regulation Council as authorized by 41 U.S.C. §1908,

must address administrative, contractual, or legal remedies in instance where contractors violate or breach contract terms and provide for such sanctions and penalties as appropriate.

b) Contracts in excess of \$10,000.

All recipients that have contracts exceeding \$10,000 must address termination for cause and for convenience by the non-Federal entity including the manner by which it will be effected and the basis for settlement.

Article AF - Terrorist Financing E.O. 13224

All recipients must comply with U.S. Executive Order 13224 and U.S. law that prohibit transactions with, and the provisions of resources and support to, individuals and organizations associated with terrorism. It is the legal responsibility of recipients to ensure compliance with the E.O. and laws.

Article AG - Whistleblower Protection Act

All recipients must comply with the statutory requirements for whistleblower protections (if applicable) at 10 U.S.C § 2409, 41 U.S.C. 4712, and 10 U.S.C. § 2324, 41 U.S.C. §§ 4304 and 4310.

XIV. OFFSHORE PERFORMANCE OF WORK PROHIBITED

Due to security and identity protection concerns, all services under this Agreement shall be performed within the borders of the United States. All storage and processing of information shall be performed within the borders of the United States. This provision applies to work performed by subcontractors at all tiers.

XV. AGREEMENT RENEWAL

This Agreement shall not bind nor purport to bind the AZDOHS for any contractual commitment in excess of the original Agreement period.

XVI. RIGHT TO ASSURANCE

If the AZDOHS in good faith has reason to believe that the subrecipient does not intend to, or is unable to perform or continue performing under this Agreement, the AZDOHS may demand in writing that the subrecipient give a written assurance of intent to perform. If the subrecipient fails to provide written assurance within the number of days specified in the demand, the AZDOHS at its option may terminate this Agreement.

XVII. CANCELLATION FOR CONFLICT OF INTEREST

The AZDOHS may, by written notice to the subrecipient, immediately cancel this Agreement without penalty or further obligation pursuant to A.R.S. § 38-511 if any person significantly involved in initiating, negotiating, securing, drafting, or creating the Agreement on behalf of the State or its subdivisions (unit of Local Government) is an employee or agent of any other party in any capacity or a consultant to any other party to the Agreement with respect to the subject matter of the Agreement. Such cancellation shall be effective when the parties to the Agreement receive written notice from the AZDOHS, unless the notice specifies a later time.

XVIII. THIRD PARTY ANTITRUST VIOLATIONS

The subrecipient assigns the State of Arizona any claim for overcharges resulting from antitrust violations to the extent that such violations concern materials or services supplied by third parties to subrecipient toward fulfillment of this Agreement.

XIX. AVAILABILITY OF FUNDS

Every payment obligation of the AZDOHS under this Agreement is conditioned upon the availability of funds appropriated or allocated for the payment of such obligations. If the funds are not allocated and available for the continuance of this Agreement, the AZDOHS may terminate

this Agreement at the end of the period for which funds are available. No liability shall accrue to the AZDOHS in the event this provision is exercised, and the AZDOHS shall not be obligated or liable for any future payments or for any damages as a result of termination under this paragraph, including purchases and/or contracts entered into by the subrecipient in the execution of this Agreement.

XX. FORCE MAJEURE

If either party hereto is delayed or prevented from the performance of any act required in this Agreement by reason of acts of God, strikes, lockouts, labor disputes, civil disorder, or other causes without fault and beyond the control of the party obligated, performance of such act will be excused for the period of the delay.

XXI. PARTIAL INVALIDITY

Any term or provision of this Agreement that is hereafter declared contrary to any current or future law, order, regulation, or rule, or which is otherwise invalid, shall be deemed stricken from this Agreement without impairing the validity of the remainder of this Agreement.

XXII. ARBITRATION

In the event of any dispute arising under this Agreement, written notice of the dispute must be provided to the other party within thirty (30) days of the events giving the rise to the dispute. The subrecipient agrees to terms specified in A.R.S. § 12-1518.

XXIII. GOVERNING LAW AND CONTRACT INTERPRETATION

- a) This Agreement shall be governed and interpreted in accordance with the laws of the State of Arizona.
- b) This Agreement is intended by the parties as a final and complete expression of their agreement. No course of prior dealings between the parties and no usage of the trade shall supplement or explain any terms in this document.
- c) Either party's failure to insist on strict performance of any term or condition of the Agreement shall not be deemed a waiver of that term or condition even if the party accepting or acquiescing in the nonconforming performance knows of the nature of the performance and fails to object.

XXIV. ENTIRE AGREEMENT

This Agreement and its Exhibits constitute the entire Agreement between the parties hereto pertaining to the subject matter hereof and may not be changed or added to except by a writing signed by all parties hereto in conformity with Paragraph XII, AMENDMENTS. The subrecipient agrees to comply with any such amendment within ten (10) business days of receipt of a fully executed amendment. All prior and contemporaneous agreements, representations, and understandings of the parties, oral, written, pertaining to the subject matter hereof, are hereby superseded or merged herein.

XXV. RESTRICTIONS ON LOBBYING

The subrecipient shall not use funds made available to it under this Agreement to pay for, influence, or seek to influence any officer or employee of a State or Federal government.

XXVI. LICENSING

The subrecipient, unless otherwise exempted by law, shall obtain and maintain all licenses, permits, and authority necessary to perform those acts it is obligated to perform under this Agreement.

XXVII. NON-DISCRIMINATION

The subrecipient shall comply with all State and Federal equal opportunity and non-discrimination requirements and conditions of employment, including the Americans with Disabilities Act, in accordance with A.R.S. title 41, Chapter 9, Article 4 and Executive Order 2009-09.

XXVIII. SECTARIAN REQUESTS

Funds disbursed pursuant to this Agreement may not be expended for any sectarian purpose or activity, including sectarian worship or instruction in violation of the United States or Arizona Constitutions.

XXIX. SEVERABILITY

The provisions of this Agreement are severable. Any term or condition deemed illegal or invalid shall not affect any other term or condition of the Agreement.

XXX. ADVERTISING AND PROMOTION OF AGREEMENT

The subrecipient shall not advertise or publish information for commercial benefit concerning this Agreement without the written approval of the AZDOHS.

XXXI. OWNERSHIP OF INFORMATION, PRINTED AND PUBLISHED MATERIAL

The AZDOHS reserves the right to review and approve any publications funded or partially funded through this Agreement. All publications funded or partially funded through this Agreement shall recognize the AZDOHS and the U.S. Department of Homeland Security. The U.S. Department of Homeland Security and the AZDOHS shall have full and complete rights to reproduce, duplicate, disclose, perform, and otherwise use all materials prepared under this Agreement.

The subrecipient agrees that any report, printed matter, or publication (written, visual, or sound, but excluding press releases, newsletters, and issue analyses) issued by the subrecipient describing programs or projects funded in whole or in part with Federal funds shall contain the following statement:

"This document was prepared under a grant from the U.S. Department of Homeland Security. Points of view or opinions expressed in this document are those of the authors and do not necessarily represent the official position or policies of the U.S. Department of Homeland Security."

The subrecipient also agrees that one copy of any such publication, report, printed matter, or publication shall be submitted to the AZDOHS to be placed on file and distributed as appropriate to other potential subrecipients or interested parties. The AZDOHS may waive the requirement for submission of any specific publication upon submission of a request providing justification from the subrecipient.

The AZDOHS and the subrecipient recognize that research resulting from this Agreement has the potential to become public information. However, prior to the termination of this Agreement, the subrecipient agrees that no research-based data resulting from this Agreement shall be published or otherwise distributed in any form without express written permission from the AZDOHS and possibly the U.S. Department of Homeland Security. It is also agreed that any report or printed matter completed as a part of this agreement is a work for hire and shall not be copyrighted by the subrecipient.

XXXII. CLOSED-CAPTIONING OF PUBLIC SERVICE ANNOUNCEMENTS

Any television public service announcement that is produced or funded in whole or in part by the subrecipient shall include closed captioning of the verbal content of such announcement.

XXXIII. INDEMNIFICATION

Each party (as "Indemnitor") agrees to defend, indemnify, and hold harmless the other party (as "Indemnitee") from and against any and all claims, losses, liability, costs, or expenses (including reasonable attorney's fees) (hereinafter collectively referred to as "Claims") arising out of bodily injury of any person (including death) or property damage, but only to the extent that such Claims which result in vicarious/derivative liability to the Indemnitee are caused by the act, omission, negligence, misconduct, or other fault of the Indemnitor, its officers, officials, agents, employees, or volunteers. The State of Arizona, (State Agency) is self-insured per A.R.S. 41-621.

In addition, should subrecipient utilize a contractor(s) and subcontractor(s), the indemnification clause between subrecipient and contractor(s) and subcontractor(s) shall include the following:

Contractor shall defend, indemnify, and hold harmless the (insert name of other governmental entity) and the State of Arizona, and any jurisdiction or agency issuing any permits for any work arising out of this Agreement, and its departments, agencies, boards, commissions, universities, officers, officials, agents, and employees (hereinafter referred to as "Indemnitee") from and against any and all claims, actions, liabilities, damages, losses, or expenses (including court costs, attorneys' fees, and costs of claim processing, investigation and litigation) (hereinafter referred to as "Claims") for bodily injury or personal injury (including death), or loss or damage to tangible or intangible property caused, or alleged to be caused, in whole or in part, by the negligent or willful acts or omissions of the contractor or any of the directors, officers, agents, or employees or subcontractors of such contractor. This indemnity includes any claim or amount arising out of or recovered under the Workers' Compensation Law or arising out of the failure of such contractor to conform to any federal, state or local law, statute, ordinance, rule, regulation or court decree. It is the specific intention of the parties that the Indemnitee shall, in all instances, except for Claims arising solely from the negligent or willful acts or omissions of the Indemnitee, be indemnified by such contractor from and against any and all claims. It is agreed that such contractor will be responsible for primary loss investigation, defense and judgment costs where this indemnification is applicable. Additionally on all applicable insurance policies, contractor and its subcontractors shall name the State of Arizona, and its departments, agencies, boards, commissions, universities, officers, officials, agents, and employees as an additional insured and also include a waiver of subrogation in favor of the State.

XXXIV. TERMINATION

- a) All parties reserve the right to terminate the Agreement in whole or in part due to the failure of the subrecipient or the grantor to comply with any term or condition of the Agreement, to acquire and maintain all required insurance policies, bonds, licenses, and permits or to make satisfactory progress in performing the Agreement. The staff of either party shall provide a written thirty (30) day advance notice of the termination and the reasons for it.
- b) If the subrecipient chooses to terminate the contract before the grant deliverables have been met then the AZDOHS reserves the right to collect all reimbursements distributed to the subrecipient.
- c) The AZDOHS may, upon termination of this Agreement, procure, on terms and in the manner that it deems appropriate, materials or services to replace those under this Agreement. The subrecipient shall be liable to the AZDOHS for any excess costs incurred by the AZDOHS in procuring materials or services in substitution for those due from the subrecipient.

XXXV. CONTINUATION OF PERFORMANCE THROUGH TERMINATION

The subrecipient shall continue to perform, in accordance with the requirements of the Agreement, up to the date of termination, as directed in the termination notice.

XXXVI. PARAGRAPH HEADINGS

The paragraph headings in this Agreement are for convenience of reference only and do not define, limit, enlarge, or otherwise affect the scope, construction, or interpretation of this Agreement or any of its provisions.

XXXVII. COUNTERPARTS

This Agreement may be executed in any number of counterparts, copies, or duplicate originals. Each such counterpart, copy, or duplicate original shall be deemed an original, and collectively they shall constitute one agreement.

XXXVIII. AUTHORITY TO EXECUTE THIS AGREEMENT

Each individual executing this Agreement on behalf of the subrecipient represents and warrants that he or she is duly authorized to execute this Agreement.

XXXIX. SPECIAL CONDITIONS

- a) The subrecipient must comply with the most recent version of the Administrative Requirements, Cost Principles, and Audit requirements
- b) The subrecipient acknowledges that the U.S. Department of Homeland Security and the AZDOHS reserve a royalty-free, non-exclusive, and irrevocable license to reproduce, publish, or otherwise use, and authorize others to use, for Federal government purposes: (a) the copyright in any work developed under an award or sub-award; and (2) any rights of copyright to which a subrecipient purchases ownership with Federal support. The subrecipient shall consult with the AZDOHS regarding the allocation of any patent rights that arise from, or are purchased with, this funding.
- c) The subrecipient agrees to cooperate with any assessments, state/national evaluation efforts, or information or data collection requests, including, but not limited to, the provision of any information required for the assessment or evaluation of any activities within this agreement.
- d) The subrecipient is prohibited from transferring funds between programs (State Homeland Security Program, Urban Area Security Initiative, Operation Stonegarden).

XL. NOTICES

Any and all notices, requests, demands, or communications by either party to this Agreement, pursuant to or in connection with this Agreement shall be in writing, be delivered in person, or shall be sent to the respective parties at the following addresses:

Arizona Department of Homeland Security
1700 West Washington Street, Suite 210
Phoenix, AZ 85007

The subrecipient shall address all programmatic and reimbursement notices relative to this Agreement to the appropriate AZDOHS staff; contact information at www.azdohs.gov.

The AZDOHS shall address all notices relative to this Agreement to:

Sergeant Janus A. Poppe

Enter Title, First & Last Name Above
Bisbee Police Department

Enter Agency Name Above
#1 Highway 92

Enter Street Address Above
Bisbee, AZ 85603

Enter City, State, ZIP Above

XLI. IN WITNESS WHEREOF

The parties hereto agree to execute this Agreement.

FOR AND BEHALF OF THE

City Of Bisbee Police Department

Enter Agency Name Above

Authorized Signature Above
Ronald Oertle, Mayor

Print Name & Title Above

Enter Date Above

FOR AND BEHALF OF THE

Arizona Department of Homeland Security

Gilbert M. Orrantia
Director

Date

(Complete and mail two original documents to the Arizona Department of Homeland Security.)

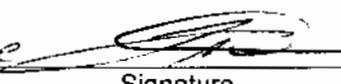
**FY 2015 Operation Stonegarden Grant Program
 Operations Order Funding Addendum
 Agency: Bisbee Police Department
 Grant#: 150415-01**

The signatures below verify the submission/approval process. All parties signify that all aspects of this project are allowable, reasonable and justifiable in accordance with published federal grant guidelines. Subgrantee agrees to the funding shown here:

OVERTIME

OVERTIME	MILEAGE	TRAVEL	TOTAL AWARD
\$104,281	\$10,819		\$115,100

Project Point of Contact

Janus A. Poppe  4/1/16
 Print Name Signature Date

Strategic Planner or
 Assistant Director Planning &
 Preparedness

William D. Seltzer
 Print Name Signature Date

This form is to be signed and returned.

Grant Number:

150415-01

Arizona Department of Homeland Security Financial Systems Survey

Name of Organization:

Person completing survey:

Date:

email:

PLEASE ANSWER EVERY QUESTION BY CHECKING THE APPROPRIATE BOX. ATTACH MATERIALS AND

As stewards of federal and state funds, the Arizona Department of Homeland Security (AZDOHS) prefers to award

This survey will be used primarily for initial monitoring of the organization. This survey may also be used in evaluating the financial capability of the organization in the award process. Deficiencies should be addressed for corrective action and the organization should consider procuring technical assistance in correcting identified problems.

A. GENERAL INFORMATION

1. Has your organization received a Federal or State Grant within the last two years?

YES

2. Has your organization received funding from the Arizona Department of Homeland Security within the past two

3. Has your organization been audited by an independent Certified Public Accountant within the past two years?

Yes No

4. Has your organization completed an A-133 Single Audit within the past two years?

Yes No

5. Has your organization been granted tax-exempt status by the Internal Revenue Service?

Yes No

6. If you answered YES to question #5 under what section of the IRS code?

Yes No

7. Does your organization have established policies related to salary scales, fringe benefits, travel reimbursement and personnel policies?

Yes No

B. FUNDS MANAGEMENT

8. Which of the following describes your organization's accounting system?

Manual Automated Combination

9. How frequently do you post to the General Ledger?

Daily Weekly Monthly Other

10. Does the accounting system completely and accurately track the receipt and disbursements of funds by each

Yes No

Yes No

11. Does the accounting system provide for the recording of actual costs compared to budgeted costs for each budget line item?

Yes No

12. Are time and effort distribution reports maintained for employees working fully or partially on state or federal

Yes No

13. Is your organization familiar with Federal Cost Principles (i.e. OMB Circular A-87, A-122 or A-21)?

Yes No

C. INTERNAL CONTROLS

14. Are duties of the bookkeeper/accountant segregated from the duties of cash receipt or cash disbursement?

Yes No

15. Are checks signed by individuals whose duties exclude recording cash received, approving vouchers for payment

Yes No

16. Are all accounting entries and payments supported by source documentation?

Yes No

17. Are cash or in-kind matching funds supported by source documentation?

Yes No

18. Are employee time sheets supported by appropriately approved/signed documents?

Yes No

19. Does the organization maintain policies which include procedures for assuring compliance with applicable Code

Yes No

D. PROCUREMENT

20. Does the organization maintain written codes of conduct for employees involved in awarding or administering

Yes No

21. Does the organization conduct purchases in a manner that encourages open and free competition among vendors?

Yes No

22. Does the organization complete some level of cost or price analysis for every purchase?

Yes No

23. Does the organization maintain files and other source documentation sufficient to detail the history of each

Yes No

24. Does the organization maintain a system of contract administration to ensure contractor conformance with the

Yes No

25. Does the organization maintain written procurement policies and procedures?

Yes No

NIMS Compliance Certification

Subgrantee Information

Subgrantee Agreement Number: **150415-01**

Agency: **Bisbee Police Department**

Please complete this form, sign and return to AZDOHS with award packet materials.

1. a. Select your jurisdiction type:

Tribal Nation County/Parish/Township/Borough City/Urban Area Other:

If you marked other, please explain:

1. b. If all components of your jurisdiction are not accounted for, please explain:

2. Has your jurisdiction formally adopted and/or maintained adoption of the National Incident Management System as your all-hazards incident management system for Fiscal Year (FY) 2015? Yes No

3. Has your jurisdiction reviewed and revised the following types of plans to incorporate NIMS components, principles, and policies?

Emergency Operations Plans	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Mitigation Plan	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Standard Operating Procedures	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Training Plan	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Standard Operation Guidelines	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Continuity Plan	<input type="checkbox"/> Yes	<input type="checkbox"/> No
All Hazard Plan	<input type="checkbox"/> Yes	<input type="checkbox"/> No			

4. Has your jurisdiction established (and/or have in development) the following types of mutual aid agreements, compacts, and/or assistance agreements?

<u>Intrastate Agreements</u>			<u>Interagency and Interstate Agreements</u>		
Throughout the State/Territory?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Throughout the jurisdiction?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
That include the Private Sector?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	That include the Private Sector?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
That include NGOs?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	That include NGOs?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
That include Tribal Nations?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	That include Tribal Nations?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

5. a. Have NIMS concepts and principles been incorporated into appropriate training within your jurisdiction?

Yes, all appropriate training Yes, some appropriate training No

5. b. If yes, which of the following has been incorporated?

<input checked="" type="checkbox"/> Interoperable and Compatible Communications, Technology, and Information Management	<input checked="" type="checkbox"/> Incident Command System
<input type="checkbox"/> Resource Management, Typing, and Credentialing	<input checked="" type="checkbox"/> Multiagency Coordination System
<input checked="" type="checkbox"/> Mutual Aid or Assistance Agreements	<input checked="" type="checkbox"/> Public Information

6. Has your jurisdiction implemented a training program to ensure that the appropriate emergency/incident response personnel, as identified in the NIMS Training Program, receive NIMS training in accordance with their incident management responsibilities?

Yes No

7. Which, if any, of the following are priorities for your jurisdiction to incorporate into training in the coming year? Please choose up to three options from the list below.

<input checked="" type="checkbox"/> Interoperable and Compatible Communications, Technology, and Information Management	<input checked="" type="checkbox"/> Incident Command System
<input type="checkbox"/> Resource Management, Typing, and Credentialing	<input checked="" type="checkbox"/> Multiagency Coordination System
<input checked="" type="checkbox"/> Mutual Aid or Assistance Agreements	<input checked="" type="checkbox"/> Public Information

Other (please specify):

NIMS Compliance Certification

8.a. Have NIMS concepts and principles been incorporated into appropriate exercises within your jurisdiction?

- Yes, all appropriate exercises Yes, some appropriate exercises No

8.b. If yes, which of the following has been incorporated?

- | | |
|---|---|
| <input checked="" type="checkbox"/> Interoperable and Compatible Communications, Technology, and Information Management | <input checked="" type="checkbox"/> Incident Command System |
| <input type="checkbox"/> Resource Management, Typing, and Credentialing | <input checked="" type="checkbox"/> Multiagency Coordination System |
| <input checked="" type="checkbox"/> Mutual Aid or Assistance Agreements | <input checked="" type="checkbox"/> Public Information |

9. Which, if any, of the following are priorities for your jurisdiction to incorporate into exercises in the coming year? Please choose up to three options from the list below.

- | | |
|--|---|
| <input type="checkbox"/> Interoperable and Compatible Communications, Technology, and Information Management | <input checked="" type="checkbox"/> Incident Command System |
| <input type="checkbox"/> Resource Management, Typing, and Credentialing | <input checked="" type="checkbox"/> Multiagency Coordination System |
| <input checked="" type="checkbox"/> Mutual Aid or Assistance Agreements | <input type="checkbox"/> Public Information |

Other (please specify):

10. Does your jurisdiction maintain an inventory of its response resources and assets?

- Yes No

11. Does your jurisdiction use an interoperable tool, such as the Incident Resource Inventory System (IRIS), to inventory response resources and assets?

- Yes No

12. Has your jurisdiction typed and inventoried your response resources and assets consistently with available national NIMS resource typing definitions and job titles/position qualifications, available through the Resource Typing Library Tool at <http://www.fema.gov/resource-management?>

- Yes No

13. Does your jurisdiction have a process to determine availability of response resources and assets in accordance with national NIMS resource typing definitions and job titles/position qualifications, available through the Resource Typing Library Tool at <http://www.fema.gov/resource-management?>

- Yes No

14. What priorities has your jurisdiction identified to enhance your implementation of NIMS in the coming year? Please check up to three.

- Incorporate NIMS concepts and principles into existing plans and/or planning efforts.
- Update training to ensure all applicable NIMS concepts and principles are incorporated.
- Incorporate additional NIMS concepts and principles into exercises.
- Make communication and information management practices consistent with NIMS.
- Increase efforts to inventory all response assets consistently with available NIMS national resource typing definitions.
- Increase adoption of the Incident Command System. Increase adoption of Multiagency Coordination Systems
- Make public information practices consistent with NIMS.

Other (please specify):

15. Does your jurisdiction have an access and re-entry plan in order to control the flow of resources and personnel into the area of an incident?

- Yes No

16. Please list any tools, training, guidance, or support that would be helpful in further enhancing your jurisdiction's implementation of NIMS:

Authorized Signature

JANUS A. POPPE SERGEANT

Print Name and Title

1/1/16

Date

09/17/2013

ACTING AS COLLECTING AGENT FOR OFFICE OF MANAGEMENT AND BUDGET

GENERAL INFORMATION

REPORTID: 654920 VERSION:1

1. Fiscal Period End Date

6/30/2013

2. Type of Circular A-133 Audit

Single Audit

3. Audit Period Covered

Annual

If Audit Period Other, Number of months

4. Auditee Identification Numbers**a. Auditee Employer Identification Number (EIN)**

86-6000235

d. Auditee Data Universal Numbering System (DUNS) Number

05-344-5326

b. Are multiple EINS covered in this report?

No

e. Are multiple DUNS covered in this report?

No

If Yes, the additional EINS are listed on

If Yes, the additional DUNS are listed on

Additional EINS

Additional DUNS

5. AUDITEE INFORMATION**a. Auditee Name**

CITY OF BISBEE, ARIZONA

6. PRIMARY AUDITOR INFORMATION**a. Audit Firm / Organization Name**

FESTER & CHAPMAN P.C.

b. Auditee Address (Number and street)

118 ARIZONA ST.

b. Audit Firm / Organization EIN

86-0494040

Auditee City

BISBEE

c. Audit Firm / Organization Address (Number and street)

4001 N. THIRD STREET SUITE 275

Auditee State

AZ

Auditor Firm/Organization City

PHOENIX

Auditor Firm/Organization State

AZ

Auditee ZIP Code

85603

Auditor Firm/Organization ZIP Code

85012

c. Auditee Contact Name

SHARON BUONO

d. Primary Auditor Name

OLIVIA BRASHER

Auditee Contact Title

FINANCE DIRECTOR

Primary Auditor Title

DIRECTOR

d. Auditee Contact Telephone

(520)432-6008

e. Primary Auditor Contact Telephone

(602)264-3077

e. Auditee Contact Fax

(520)432-4025

f. Primary Auditor Contact Fax

(602)265-6241

f. Auditee Contact E-mail

SBUONO@CITYOFBISBEE.COM

g. Primary Auditor Contact E-mail

OBRASHER@F-CPC.COM

7. Was a secondary auditor used?

No

8. If Yes, the additional auditors are listed on

Secondary Auditors