



City Council Agenda 6/2/2026

Notice is hereby given of a regular meeting of the City Council of City of San Angelo to be held June 2, 2026 at 8:30 AM at the McNease Convention Center – South Meeting Room, 501 Rio Concho Drive, San Angelo, Texas, for the purpose of considering the following agenda items.

1. Call to Order

2. Chaplain Prayer & Pledges

3. Proclamations/Recognitions

- a. Proclamation of June 1 - June 7, 2026 as Safe Kids Week

4. Public Comment

Members of the public may raise issues or concerns not listed on the Regular Agenda during this time. To participate, please sign in with the City Clerk prior to the beginning of the meeting. Speakers will be called in the order they signed in. When speaking, citizens must speak from the podium, address all comments to the dais, begin by stating your name and address or Single Member District number, and limit their remarks to three minutes or less.

5. Consent Agenda

- a. Consider approving the May 19, 2026, Special Joint Meeting and May 19, 2026, Regular Meeting minutes (Heather Stastny)
- b. Consider granting Utility Easements to AEP to replace lines and transformers at 50 E. 43rd St. and authorizing the City Manager to negotiate and execute all related documents (Sarah Torres)
- c. Consider rejecting all bids received for WU-06-26 Caustic Soda (Danielle Rix)
- d. Consider approving BuyBoard Contract #803-26 EMS Supplies to vendors Boundtree, Henry Schein, Life Assist and QuadMed, with a not to exceed amount of \$180,000, budgeted per fiscal year and providing for a base term of one year with four additional one-year extension options and authorizing the City Manager to negotiate and execute all related documents (Cory Sanders)
- e. Consider authorizing the Fire Department to apply for the FEMA Staffing for Adequate Fire and Emergency Response Grant and authorizing the City Manager to negotiate and execute all related documents (Patrick Brody)
- f. Consider a resolution authorizing a special event known as "Wake the Desert 2026" and approving variances to City ordinances at Middle Concho Park for July 10-12, 2026 (Carl White)
- g. Second reading of the ordinances amending Chapter 12 "Planning and Development", Exhibit A "Zoning Ordinance" regarding the creation of the new residential districts as follows:
1. Amending Article 3 "Use Regulations", Section 303 "Residential District Intent Statements";

2. Amending Article 3 "Use Regulations", Section 313 "Use Table";
 3. Amending Article 3 "Use Regulations", Section 314 "Residential Structure Types"; and
 4. Amending Article 5 "General Development Standards", Section 501 "Residential District Standards" (Aaron Vannoy)
- h. Second reading of the ordinances amending Chapter 12 "Planning and Development," Exhibit C "Land Development and Subdivision Ordinance," as follows:
 1. Amending Chapter 10 "Construction Standards and Specifications," Section III "Widths and Graphic Specifications" to reduce required street widths; and
 2. Amending Chapter 9 "Land Development and Subdivision Design Policies," Section V "Sidewalks," Subsection D "Where Sidewalks are Required" to change and specify where sidewalks are required (Austin Reed)
 - i. Second reading of the ordinances amending Chapter 12 "Planning and Development", Exhibit A "Zoning Ordinance" regarding Mobile Food Units as follows:
 1. Amending Article 4 "Specific Use Standards", Section 419 "Mobile Food Units";
 2. Amending Article 3 "Use Regulations", Section 313 "Use Table";
 3. Amending Article 2 "Development Review", Section 211 "Historic District Overlay Zone"; and
 4. Amending Article 2 "Development Review", Section 212 "River Corridor District Overlay Zone, Downtown District Overlay Zone, and Cultural District Overlay Zone" (Aaron Vannoy)
 - j. Second reading of an ordinance for ROW26-01, a request to abandon a portion of Waco St. in Block 55 Hatcher addition in front of Lots 11, 12, 13 and 14 being 0.182 acres (Aaron Vannoy)
 - k. Second reading of an ordinance for ROW26-02, a request to abandon 48,423 sq.ft. of street right-of-way being the 18th St. Bypass between 18th St. and North Poe St. (Presentation made by Planning and Development Services Director Aaron Vannoy)
 - l. Second reading of an ordinance for Z26-04, a request for a zone change from the General/Heavy Commercial zoning district to the General Commercial zoning district located at 1212 N. Chadbourne St. (Aaron Vannoy)
 - m. Second reading of an ordinance to adopt Data Center regulations for waste water discharge in the San Angelo Code of Ordinances by amending Chapter 11 "Utilities" Article 11.02 "Water and Sewer Systems," Division 3 "Sewer Service," Part III "Discharges Into Sewer System," Section 11.02.122 "Prohibited Discharges," by adding Subsection (c) "Data Center Discharges" (John Kaufman)
 - n. Second reading of an ordinance to adopt Data Center regulations for water use in the San Angelo Code of Ordinances by amending Chapter 11 "Utilities," Article 11.02 "Water and Sewer Systems," Division 2 "Water Service," by adding Section 11.02.043 "Data Center" (John Kaufman)

6. Regular Agenda

Comments regarding items on the Regular Agenda may be made by the public when each item is discussed as outlined above. To participate, please sign in with the City Clerk prior to the beginning of the meeting. Speakers will be called in the order they signed in. Comments are limited to less than three minutes. Applicants, proponents, and appellants are exempt from the time limit above and instead must limit their remarks to less than five minutes.

- a. Presentation and discussion of a feasibility study for an indoor sports complex (Presentation made by Synergy Sports CEO Jason Boudrie)
- b. COSA Development Corporation 2025 Annual Report (Presentation made by Economic Development Director Ryan Gaddy)
- c. Consider awarding H-GAC contract FS12-23 to Siddons-Martin Emergency Group for the purchase of a 100' Pierce Enforcer Mid-Mount Aerial Platform in the amount of \$2,351,312 sourced from General and Intergovernmental fund balance, and authorizing the City Manager to negotiate and execute all related documents (Presentation made by Fire Chief Patrick Brody)
- d. Consider Tax Increment Reinvestment Zone funding for the following proposed projects in the South Zone:
 - 1. 11 N. Chadbourne A
 - 2. 11 N. Chadbourne B
 - 3. 7 N. Chadbourne A
 - 4. 7 N. Chadbourne B
 - 5. 7 N. Chadbourne C
 - 6. 30 S. Chadbourne
 - 7. 305 W. Twohig
 - 8. 415 W. Beauregard
 - 9. 5 W. Conchofor a cumulative amount of \$858,652 (Presentation by Planning & Development Services Director Aaron Vannoy)
- e. Consider Tax Increment Reinvestment Zone funding for a North Zone project located at 1313 N. Bryant in the amount for \$100,000 (Presentation made by Planning & Development Services Director Aaron Vannoy)
- f. Public hearing for the 2027-2031 Capital Improvement Plan for the City of San Angelo (Presentation made by Finance Director Jonathan Flores)

7. Closed Session

Executive Session under the provision of Government Code, Title 5. Open Government; Ethics, Subtitle A. Open Government, Chapter 551. Open Meetings, Subchapter D. Exceptions to Requirement that Meetings be Open under the following sections:

- a. Section 551.072 — Deliberations about real property regarding:
 - 1. 2702 Red Bluff Ramp Rd.
 - 2. 4.047 acres, Abstract: A-1755 S-0002, Survey: WM Nevels
 - 3. 34 W. Harris Ave. (Parking Lot)
- b. Section 551.071 - Consultation with attorney regarding board member appointment and eligibility requirements
- c. Section 551.071 — Consultation with attorney regarding Texas Local Government Code Chapter 380 and Texas Tax Code Chapter 312
- d. Section 551.074 - Personnel matters to deliberate the appointment, employment, and duties of the City Manager

8. Follow Up and Administrative Issues

- a. Consider items discussed in Executive Session, if needed

b. Announcements and consideration of Future Agenda Items

9. Adjournment

CERTIFICATION

I hereby certify that the above notice of meeting was posted on the bulletin board at City Hall in the City of San Angelo, Texas, on the 27th day of May 2026, at 4:52 p.m.


Heather Stastny, City Clerk

All agenda items are subject to action. The City Council reserves the right to consider business out of posted order and/or adjourn into closed session on any item on this agenda and at any time during the course of this meeting to discuss matter as authorized by law or by the Open Meetings Act, Texas Government Code Sections 551.071 (Consultation with Attorney), 551.072 (Deliberations Regarding Real Property), 551.073 (Deliberations Regarding Prospective Gifts), 551.074 (Personnel Matters), 551.076 (Deliberations Regarding Security Devices or Security Audits), 551.087 (Deliberations Regarding Economic Development Negotiations), and 551.089 (Deliberations Regarding Security Devices or Security Audits). Any final action or vote on any Closed Session item will be taken in Open Session.

In compliance with the Americans with Disabilities Act, the City of San Angelo will provide for reasonable accommodations for persons attending City Council meetings. To better serve you, requests should be received 48 hours prior to the meetings. Please contact the ADA Coordinator at 325-657-4407 for request, or by completing a request form online at cosatx.us/ada.

Citizen requests to display materials on the city's monitors must submit the request 96 hours prior to the meeting by email to Heather.Stastny@cosatx.us. Time limits for discussion are as stated above and materials cannot exceed 10-pages. Citizens bringing materials for distribution to City Council members during the meeting must bring a minimum of 12 copies.

City Council regular meetings are broadcast on SATV Channel 17-Government Access at 10:30 a.m. and 7:00 p.m. every day, beginning the evening of the meeting until the evening of the next meeting.

Proclamation

Children are our most precious resource, and their safety is a top priority.

Unintentional injuries are a leading cause of death and disability among children.

Many of these injuries are preventable through education, awareness, and safe environments. By joining together and providing children and caregivers with vital safety information and resources, we can help prevent injuries.

Safe Kids Week encourages partnerships to ensure children have safe, stable, and nurturing environments. Safe Kids Week is an opportunity for all those in San Angelo to come together for the cause of preventing childhood injury and death.

Safe Kids San Angelo works every day to help parents and caregivers prevent unnecessary childhood injuries and fatalities; and unites firefighters, first responders, medical professionals, hospitals, pediatricians, police officers, parents, and other committed citizens

Therefore, I, Tom Thompson, Mayor of the City of San Angelo, Texas, on behalf of the City Council, do hereby proclaim June 1st – June 7th, 2026, as

SAFE KIDS WEEK

in San Angelo, Texas, and call upon the residents of San Angelo to join with me and urge all citizens to support efforts to protect our children by learning about and teaching other citizens ways to keep kids safe.

In witness whereof, I have hereunto set my hand and caused the seal of Official Seal of the City of San Angelo, to be affixed this 2nd day of June 2026.

Tom Thompson
Mayor of the City of San Angelo

City of San Angelo, Texas
Special Joint City Council-Planning Commission Meeting
Tuesday, May 19, 2026

City Council Members Present:

Mayor Tom Thompson
Mayor Pro tem Tommy Hiebert, SMD 1
Council Member Harry Thomas, SMD 3
Council Member Patrick Keely, SMD 4
Council Member Karen Hesse Smith, SMD 5
Council Member Mary Coffey, SMD 6

Planning Commission Present:

Chair Brittany Davis, Mayoral Representative
Jennifer Juarez, SMD 2 Representative
Kandi Pool, SMD 3 Representative
Liz Albert, SMD 4 Representative
Lyndon Roberts-Galindo, SMD 5 Representative

1. Call to Order – City Council

With a quorum of the City Council members present, Mayor Thompson called the special session of the San Angelo City Council to order at 8:32 a.m. on Tuesday, May 19, 2026, at the San Angelo McNease Convention Center, 501 Rio Concho Drive, San Angelo, Texas 76903.

2. Call to Order – Planning Commission

With a quorum of the Planning Commission members present, Chair Brittany Davis called the special session of the Planning Commission to order at 8:33 a.m. on Tuesday, May 19, 2026, at the San Angelo McNease Convention Center, 501 Rio Concho Drive, San Angelo, Texas 76903.

3. Public Comment

Citizens Diarmid Campbell (SMD 4) and Michelle Reed (SMD 2) provided public comment regarding the data center.

4. Joint Meeting Agenda

- a. First reading and public hearing for Chapter 12 "Planning and Development", Exhibit A "Zoning Ordinance" amendments regarding the creation of the new residential districts:
 1. Amending Article 3 "Use Regulations", Section 303 "Residential District Intent Statements";
 2. Amending Article 3 "Use Regulations", Section 313 "Use Table";
 3. Amending Article 3 "Use Regulations", Section 314 "Residential Structure Types"; and
 4. Amending Article 5 "General Development Standards", Section 501 "Residential District Standards" (Presentation made by Planning & Development Services Director Aaron Vannoy)

Citizen Rocky Templin (SMD 6) made public comments regarding item 4a.

Motion: Commissioner Roberts-Galindo made a motion, seconded by Commissioner Albert to approve the item as presented. The motion carried (5) ayes to (0) nays.

Motion: Council Member Coffey made a motion, seconded by Council Member Keely to approve the item as presented. The motion carried (6) ayes to (0) nays.

- b. First reading and public hearing of ordinances amending Chapter 12 "Planning and Development," Exhibit C "Land Development and Subdivision Ordinance" as follows:
 1. Amending Chapter 10 "Construction Standards and Specifications," Section III "Widths and Graphic Specifications" to reduce required street widths; and
 2. Amending Chapter 9 "Land Development and Subdivision Design Policies," Section V "Sidewalks," Subsection D "Where Sidewalks are Required" to change and specify where sidewalks are required (Presentation made by Senior Planner Austin Reed)

Motion: Commissioner Roberts-Galindo made a motion, seconded by Commissioner Pool to approve the item as presented and to maintain a minimum paving width of 26 ft. within designated infill areas. The motion carried (5) ayes to (0) nays with no public comment.

Motion: Council Member Karen Hesse Smith made a motion, seconded by Council Member Mary Coffee to approve the item as presented and to maintain a minimum paving width of 26 ft. within designated infill areas. The motion carried (6) ayes to (0) nays with no public comment.

- c. First reading and public hearing for Chapter 12 "Planning and Development", Exhibit A "Zoning Ordinance" amendments regarding Mobile Food Units in the following sections:
1. Amending Article 4 "Specific Use Standards", Section 419 "Mobile Food Units";
2. Amending Article 3 "Use Regulations", Section 313 "Use Table";
3. Amending Article 2 "Development Review", Section 211 "Historic District Overlay Zone";
and
4. Amending Article 2 "Development Review", Section 212 "River Corridor District Overlay Zone, Downtown District Overlay Zone, and Cultural District Overlay Zone"
(Presentation made by Planning & Development Services Director Aaron Vannoy)
Citizen Monica Ramos (SMD 6) made public comment regarding item 4c.

Motion: Commissioner Roberts-Galindo made a motion, seconded by Commissioner Albert to approve the item as presented and to maintain the commercial separation distance in ROW to 100 ft. The motion carried (5) ayes to (0) nays.

Motion: Council Member Thomas made a motion, seconded by Council Member Hiebert to approve the item as presented and to maintain the commercial separation distance in ROW to 100 ft. The motion carried (5) ayes to (1) nay, with Council Member Keely casting the dissenting vote.

5. Follow Up and Administrative Issues

6. Adjournment – Planning Commission

Motion: Commissioner Roberts-Galindo made a motion, seconded by Commissioner Pool to adjourn. The motion carried unanimously (5) ayes to (0) nays.

There being no further business, the Planning Commission adjourned at 10:32 a.m.

7. Adjournment – City Council

Motion: Council Member Hiebert made a motion, seconded by Council Member Thomas to adjourn.

There being no further business, the City Council adjourned at 10:33 a.m.

THE CITY OF SAN ANGELO, TEXAS:

ATTEST:

Tom Thompson, Mayor

Heather Stastny, City Clerk

In accordance with Chapter 2, Article 2.300, of the Official Code of the City of San Angelo, the minutes of this meeting consist of the preceding Minute Record and the Supplemental Minute Record. Details on Council meetings may be obtained from the City Clerk's Office, or a video of the entire meeting may be purchased from the Public Information Officer at 481-2727. (Portions of the Supplemental Minute Record video tape recording may be distorted due to equipment malfunction or other uncontrollable factors.)

City of San Angelo, Texas
Regular City Council Meeting
Tuesday, May 19, 2026

Present:

Mayor Tom Thompson
Mayor Pro Tem Tommy Hiebert, SMD 1
Council Member Harry Thomas, SMD 3
Council Member Patrick Keely, SMD 4
Council Member Karen Hesse Smith, SMD 5
Council Member Mary Coffey, SMD 6

1. Call to Order

With a quorum of the City Council Members present, Mayor Thompson called the regular session of the San Angelo City Council to order at 10:47 a.m. on Tuesday, May 19, 2026, at the San Angelo McNease Convention Center, 501 Rio Concho Drive, San Angelo, Texas 76903.

2. Chaplain Prayer & Pledges

An invocation was provided, and pledges were led by Mayor Pro Tem Tommy Hiebert.

3. Proclamations/Recognitions

May 1, 2026, was proclaimed as Texas Trust Credit Union Day.

May 20, 2026, was proclaimed as Texas Southwest Council of Scouting America Day.

May 25, 2026, was proclaimed as Memorial Day.

Rick Weise was recognized as a 250 Government Champion.

4. Public Comment

San Angelo Chamber of Commerce President Steve Ahlenius (SMD 3) made public comments regarding economic development.

Keep San Angelo Beautiful Manager Shaina Hill announced the upcoming program events.

Allie Devereaux (County Resident), Karen McGinnis (SMD 6), Anna Bartosh (SMD 1), China Young (SMD 4), Jaton Giese (SMD 5) and Zane Willard (SMD 1) made public comments regarding data centers.

5. Consent Agenda

- a. Approval of the following minutes: April 10, 2026, Budget Workshop, April 21, 2026, Regular Meeting, April 22, 2026, Special Meeting, and May 5, 2026, Regular Meeting (Heather Stastny)
- b. Approval of a 2.967-acre Supplemental Easement and Right of Way to AEP Texas Inc., for the Red Creek Transmission Project and authorizing the City Manager to negotiate and execute all related documents (Sarah Torres)
- c. Approval of a lease agreement with Jeremy Bouher to rent the Ben Ficklin Field for youth baseball and other recreation activities, and authorizing the City Manager to negotiate and execute all related documents (Jesse Benes)
- d. Approval of a lease agreement with The Vessel Church for use of some of the rooms at Santa Fe Crossing and Station 618 at a rate of \$1,800 per month and authorizing the City Manager to negotiate and execute all related documents (Jesse Benes)
- e. Rejection of all bids received for WU-05-26 Liquid Ammonium Sulfate (Danielle Rix)

- f. Rejection of all bids received for WU-07-26 Liquid Chlorine (Danielle Rix)
- g. Consider awarding WU-06-26 Caustic Soda to PVS DX Chemicals for 1 year with four 1-year extensions, and authorizing the City Manager to negotiate and execute all related documents (Danielle Rix)
- h. Approval of a MOU between the City of San Angelo and the State of Texas/Texas Commission on Environmental Quality to build a secured parking facility at the Chase State Office Complex and authorizing the City Manager to negotiate and execute all related documents (Bob Bluthardt)
- i. Approval of an agreement with the Concho Valley Center for Human Advancement d/b/a My Health My Resources to fund Community Mental Health programs and Services for the 2025-2026 fiscal year with an amount of \$80,500 and authorizing the City Manager to negotiate and execute all related documents (Sandra Villarreal)
- j. Approval of an amendment to extend the term of an agreement between the City of San Angelo and the Housing Authority of San Angelo for the HOME-ARP Homeless Veterans Case Management Program and authorizing the City Manager to negotiate and execute all related documents (Angela Bloss)
- k. Approval of an amended resolutions in support of a Texas Department of Transportation Highway Safety Improvement Project Grant, authorizing the City Manager to negotiate and execute Advanced Funding Agreements for intersection improvements in the amount of \$2,757 for Main and 19th St., and \$31,013 for Ave. N and Ben Ficklin (Patrick Frerich) (2026-
- l. Approval of an amended resolution authorizing the San Angelo Police Department to apply for and accept an Office of the Governor Victim Assistance grant in the amount of \$99,203.86 with a 20% match requirement, and designating the City Manager as the authorized official to execute all necessary documents (Craig Thomason)
- m. Approval of an amended resolution for the San Angelo Police Department to apply for and accept an Office of the Governor Criminal Justice Training Grant in the amount of \$38,949 with no matching requirement and designating the City Manager as the authorized official to execute all necessary documents (Craig Thomason)
- n. Approval of various Board nominations:
Design and Historic Commission: Susan Mertz (Mayor) to an unexpired term ending September 2027
Public Art Commission: Yukio Kuniyuki III (SMD 2) to a first full term ending April 2028, Laura Huckaby (SMD 3) to a first term ending April 2028
Park Commission: Eva Horton (At-Large) to an unexpired term ending January 2027

Motion: Council Member Thomas made a motion, seconded by Council Member Hiebert to approve the Consent Agenda with the exception of Items 5b., 5g., and 5n. The motion carried unanimously (6) ayes to (0) nays with no public comment.

Motion: Council Member Hesse Smith made a motion, seconded by Council Member Coffey to approve Item 5b. as presented by Interim City Engineer Zef Mendoza. The motion carried unanimously (6) ayes to (0) nays with no public comment.

Motion: Council Member Keely made a motion, seconded by Council Member Hesse Smith to table Item 5g. as presented by Assistant Water Utilities Director Danielle Rix. The motion carried unanimously (6) ayes to (0) nays with no public comment.

Motion: Mayor Thompson made a motion, seconded by Council Member Hesse Smith, to approve Item 5n. as presented by City Clerk Heather Stastny. The motion carried unanimously (6) ayes to (0) nays with no public comment.

6. Regular Agenda

- a. Approval of TIPS Contract #23010402 in the amount of \$428,304.72 with CC3 Construction Consultants of Abilene, Texas, for the repair and replacement of two hangar roofs, with funding sourced from the Airport Fund Balance, and authorizing the City Manager to negotiate and execute all related documents (Presentation made by Airport Director Justin Fletcher)

Motion: Mayor Thompson made a motion, seconded by Council Member Keely to approve the item as presented. The motion carried unanimously (6) ayes to (0) nays with no public comment.

- b. First reading and public hearing of an ordinance for ROW26-01, a request to abandon a portion of Waco St. in Block 55 Hatcher addition in front of Lots 11, 12, 13 and 14 being 0.182 acres (Presentation made by Planning and Development Services Director Aaron Vannoy)

Motion: Council Member Thomas made a motion, seconded by Council Member Hiebert to approve the item as presented. The motion carried unanimously (6) ayes to (0) nays with no public comment.

- c. First reading and public hearing of an ordinance for ROW26-02, a request to abandon 48,423 sq. ft. of street right-of-way being the 18th St. Bypass between 18th St. and North Poe St. (Presentation made by Planning and Development Services Director Aaron Vannoy)

Motion: Council Member Keely made a motion, seconded by Council Member Hesse Smith to approve the item as presented. The motion carried unanimously (6) ayes to (0) nays with no public comment.

- d. First reading and public hearing of an ordinance for Z26-04, a request for a zone change from the General/Heavy Commercial zoning district to the General Commercial zoning district located at 1212 N. Chadbourne St. (Presentation made by Planning & Development Services Director Aaron Vannoy)

Motion: Council Member Thomas made a motion, seconded by Council Member Keely to approve the item as presented. The motion carried unanimously (6) ayes to (0) nays with no public comment.

- e. Adoption of ordinances to adopt land use regulations for Data Centers through a Conditional Use process within the Light Manufacturing and Heavy Manufacturing zoning districts by amending Chapter 12 "Planning and Development," Exhibit A "Zoning Ordinance" as follows:
1. Amending Article 3 "Use Regulations," Section 313 "Use Table"; and
2. Amending Article 4 "Specific Use Standards" by creating a new Section 430 "Data Centers" (Presentation made by Planning and Development Services Director Aaron Vannoy)

Christine Munsell (SMD 2) and China Young (SMD 4) made public comments regarding Item 6e.

Motion: Council Member Keely made a motion, seconded by Council Member Thomas to approve the item as presented with the inclusion of the RM-L zoning district. The motion carried unanimously (6) ayes to (0) nays.

- f. First reading and public hearing of an ordinance to adopt Data Center regulations for waste water discharge in the San Angelo Code of Ordinances by amending Chapter 11 "Utilities" Article 11.02 "Water and Sewer Systems," Division 3 "Sewer Service," Part III "Discharges Into Sewer System," Section 11.02.122 "Prohibited Discharges," by adding Subsection (c) "Data Center Discharges" (Presentation made by Water Utilities Director John Kaufman)

Motion: Council Member Thomas made a motion, seconded by Mayor Thompson to approve the item as presented. The motion carried unanimously (6) ayes to (0) nays with no public comment.

- g. First reading and public hearing of an ordinance to adopt Data Center regulations for water use in the San Angelo Code of Ordinances by amending Chapter 11 "Utilities," Article 11.02 "Water and Sewer Systems," Division 2 "Water Service," by adding Section 11.02.043 "Data Center" (Presentation made by Water Utilities Director John Kaufman)

China Young (SMD 4) made public comments regarding Item 6f.

Motion: Mayor Thompson made a motion, seconded by Council Member Thomas to approve the item as presented. The motion carried unanimously (6) ayes to (0) nays.

7. Closed Session

Executive Session under the provision of Government Code, Title 5. Open Government; Ethics, Subtitle A. Open Government, Chapter 551. Open Meetings, Subchapter D. Exceptions to the Requirement that Meetings be Open under the following sections:

8. Follow Up and Administrative Issues

- a. Consideration of items discussed in Closed Session, if needed
- b. Announcements and consideration of Future Agenda Items

Council Member Hesse Smith requested an economic impact report related to data centers from Finance.

Council Member Keely requested a data center related committee with a variety of community representatives.

9. Adjournment

Motion: Council Member Hiebert made a motion, seconded by Council Member Thomas to adjourn the meeting. The motion carried unanimously (6) ayes to (0) nays.

There being no further business, the meeting adjourned at 1:00 p.m.

THE CITY OF SAN ANGELO, TEXAS:

ATTEST:

Tom Thompson, Mayor

Heather Stastny, City Clerk

In accordance with Chapter 2, Article 2.300, of the Official Code of the City of San Angelo, the minutes of this meeting consist of the preceding Minute Record and the Supplemental Minute Record. Details of Council meetings may be obtained from the City Clerk's Office, or a video of the entire meeting may be purchased from the Public Information Officer at 481-2727. (Portions of the Supplemental Minute Record video tape recording may be distorted due to equipment malfunction or other uncontrollable factors.)

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Sarah Tackett, Real Estate Manager, Real Estate

Meeting Date: June 2, 2026

Item type: Consent Item

Caption:

Consider granting Utility Easements to AEP to replace lines and transformers at 50 E. 43rd St. and authorizing the City Manager to negotiate and execute all related documents (Sarah Torres)

Staff Recommendation:

Approve

Summary/History:

AEP has recently started working on old infrastructure on the fairgrounds. While looking through their records, they were unable to find easements for their infrastructure on this City property. They are seeking to acquire a formalized easement moving forward for the future.

Funding Source(s):

Financial Impact:

Other Information/Recommendation:

Attachments:

- | | | |
|----|--|---|
| 1. | Easement Sketch 91463425 | Easement Sketch 91463425.pdf |
| 2. | Easment Sketch 90469388 | Easment Sketch 90469388.pdf |
| 3. | CITY OF SAN ANGELO WR90469388 TOM GREEN COUNTY COLISEUM | CITY OF SAN ANGELO WR90469388 TOM GREEN COUNTY COLISEUM.docx |
| 4. | CITY OF SAN ANGELO EASEMENT WR91463425 | CITY OF SAN ANGELO EASEMENT WR91463425.docx |
| 5. | CITY OF SAN ANGELO WR 91468874 COLISEUM TOM GREEN COUNTY | CITY OF SAN ANGELO WR 91468874 COLISEUM TOM GREEN COUNTY.docx |

Presentation:

Sarah Tackett

Approvals/Reviews:

Sarah Tackett
Sarah Tackett
Brandon Dyson
Shane Kelton
Zeferino Mendoza
Brandon Dyson
Heather Stastny

Created/Initiated
Approved
Approved
Approved
Approved
Approved
Final Approval

Exhibit "A"

WR: 91463425

Easement #: N/A

Depiction of a 30' wide AEP Easement
"Enter Legal Description"

End Point

Lat:31.510449

Long:-100.4558633

A thirty foot wide easment lying wholly within 92.530 acres
Abstract 8046, Survey 0009, Spur Arena, Pavilion, and coiseum
as Recorded in Tom Green County, Texas.

789 ft

WR:91463425

TX:261007

DP

D.D.Lat/Long

WGS 1984

Turning Point

Lat:31.508249

Long:-100.458711

Turning Point

Lat:31.508168

Long:-100.458755

272 ft

31 ft

Starting Point

Lat:31.507421

Long:-100.458734

Coordinate System
Map Datum: NAD1983
N.T.S.

Location: 50 E 43RD ST
City: San Angelo
County: Tom Green



Exhibit "A"

WR:90469388

Center Line Depection of a 30' wide Easement
50 E 43rd St

End Point

Lat:31.510471

Long:-100.462042

A thirty foot wide easement lying wholly within 92.530 acres
Abstract 8046, Survey 0009, Spur Arena, Pavilion, and Coiiseum
as Recorded in Tom Green County, Texas

536 ft

W GRAPE CREEK RD

WR:90469388

TX:261010

DP

D.D.LAT/LONG

WGS 1984

Starting Point

Lat:31.508997

Long:-100.462051

W 47TH ST

Town: San Angelo
County: Tom Green

Coordinate System
Map Datum: NAD1983
ICN.T.S.



EASEMENT AND RIGHT OF WAY

CITY OF SAN ANGELO, (“Grantor”), for and in consideration of the public benefit that will accrue to Grantor’s Property and other good and valuable consideration to Grantor in hand paid by **AEP TEXAS INC.**, a Delaware Corporation, whose address is P.O. Box 2121, Corpus Christi, Texas 78403 (“Grantee”) the receipt and sufficiency of which is hereby acknowledged and confessed, has GRANTED, SOLD, and CONVEYED, and by these presents does GRANT, SELL, and CONVEY unto Grantee, its successors and assigns, a perpetual easement and right of way for electric distribution lines, consisting of poles made of wood, metal, or other materials, cross arms, static wires, guys, wire circuits, underground cables and conduits, communication circuits, metering equipment and all necessary or desirable appurtenances (including, but not limited to, transformers, meters, vaults, and service pedestals) over, under, across, and upon a portion of the following described land located in Tom Green County, Texas, to wit:

A thirty foot wide easement lying wholly within 92.530 acres Abstract 8046, Survey 0009, Spur Arena, Pavilion, and Coliseum as Recorded in Tom Green County, Texas

More specifically, the strip of land covered by this Easement and Right of Way shall be 30 feet in width, as described by GPS waypoints as depicted on Exhibit “A”, attached hereto, made a part hereof and incorporated herein for all applicable purposes. Notwithstanding the foregoing, the actual as-built location of the electric line shall locate, define and establish the easement. (the “Easement Area”)

Together with the right of ingress and egress over, under, across and upon the Easement Area and Grantor’s adjacent land for the purpose of constructing, operating, reconstructing on poles or burying and replacing underground cables and conduits (including necessary ditching and backfilling), enlarging, inspecting, patrolling, repairing, maintaining, upgrading and removing said lines, circuits, underground cables and conduits, poles, wires and appurtenances; the right to relocate along the same general direction of said lines, cables, and conduits; and the right to remove from the Easement Area all structures, obstructions, trees and parts thereof, using generally accepted vegetation management practices, (whether from the Easement Area or that could grow into the Easement Area) which may, in the reasonable judgment of Grantee, endanger or interfere with the safe and efficient operation and/or maintenance of said lines, cables, conduits or appurtenances or ingress and egress to, from or along the Easement Area.

Grantor reserves the right to use the Easement Area subject to said Easement and Right of Way in any way that will not interfere with Grantee’s exercise of the rights hereby granted. However, Grantor shall not construct or permit to be constructed any house or other above ground structure on or within the Easement Area containing Grantee’s improvements without the express written consent of Grantee.

Should it become necessary for the Grantee Facilities to be removed and relocated, then the party requesting such removal and relocation agrees to provide an alternate site on the Grantor’s property to relocate the Grantees Facilities and reimburse the Grantee for resonable costs of removal and subsequent relocation of any segments of the Grantee Facilities. The Grantee will make the best efforts to accomplish aa relocation within a reasonable time to satisfy the Grantor’s requirements.

TO HAVE AND TO HOLD the above described easement and rights unto the Grantee, its successors and assigns forever. Grantor binds itself, assigns, and legal representatives to warrant and forever defend all and singular the above described easement and rights unto the said Grantee, its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof.

EXECUTED this _____ day of _____, 2026.

[Rest of this page intentionally left blank-Signature page follows]

TX261010
WR#90469388

GRANTOR:
CITY OF SAN ANGELO

By: _____
Daniel Valenzuela, City Manager, City of San Angelo

ACKNOWLEDGMENT

STATE OF TEXAS
COUNTY OF TOM GREEN

This instrument was acknowledged before me on this _____ day of _____, 2026, by
Daniel Valenzuela, City Manager, City of San Angelo .

NOTARY PUBLIC, State of

(Seal)

TX261010
WR#90469388

GRANTOR:

By: _____

By: _____

ACKNOWLEDGMENT

STATE OF TEXAS
COUNTY OF

This instrument was acknowledged before me on this _____ day of _____, 2026, by

NOTARY PUBLIC, State of

(Seal)

EASEMENT AND RIGHT OF WAY

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TO HAVE AND TO HOLD the above described easement and rights unto the Grantee, its successors and assigns forever. Grantor binds itself, assigns, and legal representatives to warrant and forever defend all and singular the above described easement and rights unto the said Grantee, its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof.

EXECUTED this _____ day of _____, 2026.

[Rest of this page intentionally left blank-Signature page follows]

TX261007
WR#91463425

GRANTOR:
CITY OF SAN ANGELO

By: _____
Daniel Valenzuela, City Manager, City of San Angelo

ACKNOWLEDGMENT

STATE OF TEXAS
COUNTY OF TOM GREEN

This instrument was acknowledged before me on this _____ day of _____, 2026, by
Daniel Valenzuela, City Manager, City of San Angelo.

NOTARY PUBLIC, State of

(Seal)

TX261007
WR#91463425

GRANTOR:

By: _____

By: _____

ACKNOWLEDGMENT

STATE OF TEXAS
COUNTY OF

This instrument was acknowledged before me on this _____ day of _____, 2026, by

NOTARY PUBLIC, State of

(Seal)

EASEMENT AND RIGHT OF WAY

CITY OF SAN ANGELO, (“Grantor”), for and in consideration of the public benefit that will accrue to Grantor’s Property and other good and valuable consideration to Grantor in hand paid by **AEP TEXAS INC.**, a Delaware Corporation, whose address is P.O. Box 2121, Corpus Christi, Texas 78403 (“Grantee”) the receipt and sufficiency of which is hereby acknowledged and confessed, has GRANTED, SOLD, and CONVEYED, and by these presents does GRANT, SELL, and CONVEY unto Grantee, its successors and assigns, a perpetual easement and right of way for electric distribution lines, consisting of poles made of wood, metal, or other materials, cross arms, static wires, guys, wire circuits, underground cables and conduits, communication circuits, metering equipment and all necessary or desirable appurtenances (including, but not limited to, transformers, meters, vaults, and service pedestals) over, under, across, and upon a portion of the following described land located in TOM GREEN County, Texas, to wit:

A thirty foot wide easement lying wholly within 92.530 acres Abstract 8046, Survey 0009, Spur Arena, Pavilion, and Coliseum as Recorded in Tom Green County, Texas

More specifically, the strip of land covered by this Easement and Right of Way shall be 30 feet in width, as described by GPS waypoints as depicted on Exhibit “A”, attached hereto, made a part hereof and incorporated herein for all applicable purposes. Notwithstanding the foregoing, the actual as-built location of the electric line shall locate, define and establish the easement. (the “Easement Area”)

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TO HAVE AND TO HOLD the above described easement and rights unto the Grantee, its successors and assigns forever. Grantor binds itself, assigns, and legal representatives to warrant and forever defend all and singular the above described easement and rights unto the said Grantee, its successors and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof.

EXECUTED this _____ day of _____, 2026.

[Rest of this page intentionally left blank-Signature page follows]

TX261009
WR#91468874

GRANTOR:
CITY OF SAN ANGELO

By: _____
Daniel Valenzuela, City Manager, City of San Angelo

ACKNOWLEDGMENT

STATE OF TEXAS
COUNTY OF TOM GREEN

This instrument was acknowledged before me on this _____ day of _____, 2026, by
Daniel Valenzuela, City Manager, City of San Angelo.

NOTARY PUBLIC, State of

(Seal)

TX261009
WR#91468874

GRANTOR:

By: _____

By: _____

ACKNOWLEDGMENT

STATE OF TEXAS
COUNTY OF

This instrument was acknowledged before me on this _____ day of _____, 2026, by _____.

NOTARY PUBLIC, State of

(Seal)

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Danielle Rix, Asst. Water Utilities Director, Water Utilities

Meeting Date: June 2, 2026

Item type: Consent Item

Caption:

Consider rejecting all bids received for WU-06-26 Caustic Soda (Danielle Rix)

Staff Recommendation:

Approve

Summary/History:

The City of San Angelo Water Utilities Department recently requested bids for the chemical purchase of Caustic Soda for the Water Production Plant for use in the treatment of potable water. The respondents were to meet certain specifications and delivery requirements.

Three bids were received by Gasochem International LLC, PVS DX Chemicals, and Univar Solutions USA Inc. The lowest bid was from Univar Solutions USA Inc. but was considered unresponsive due to not meeting delivery date requirements. The other two bids were much higher. Staff requests that we reject all bids and go back out for rebid with different specifications in order to get the better competitive bids.

Funding Source(s):

Financial Impact:

Please see the attached bid tab. Rejecting this bid and advertising the project again does not have any fiscal impact at this time.

Other Information/Recommendation:

Staff recommends rejecting the bids for RFB WU-06-26 and rebidding the project for Caustic Soda.

Attachments:

- | | | |
|----|-------------------------|-----------------------------|
| 1. | WU-06-26 Bid Tabulation | WU-06-26 Bid Tabulation.pdf |
|----|-------------------------|-----------------------------|

Presentation:

Danielle Rix

Approvals/Reviews:

Danielle Rix
Shane Kelton
Brandon Dyson
Jeffrey Tomlinson
Tina Dierschke
Brandon Dyson
Heather Stastny

Created/Initiated
Approved
Approved
Approved
Approved
Approved
Final Approval



RFB Bid Tabulation

WU-06-26 • Caustic Soda

Wednesday, March 25, 2026 2:30 p.m.

				Gasochem International LLC			PVS DX Chemicals			Univar Solutions USA INC		
#	Items	Approximate Annual Quantity	Unit of Measure	Unit Price	# of Delivery Days	Total Cost	Unit Price	# of Delivery Days	Total Cost	Unit Price	# of Delivery Days	Total Cost

#1-1	Caustic Soda	450	Dry Tons	\$ 1,283.71	3	\$577,669.50	\$1,283.00	3-5	\$577,350.00	\$ 836.07	5 business days for delivery	\$376,231.50
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Unresponsive due to not meeting
delivery deadline specs

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Cory Sanders, Assistant Chief, Fire Department

Meeting Date: June 2, 2026

Item type: Consent Item

Caption:

Consider approving BuyBoard Contract #803-26 EMS Supplies to vendors Boundtree, Henry Schein, Life Assist and QuadMed, with a not to exceed amount of \$180,000, budgeted per fiscal year and providing for a base term of one year with four additional one-year extension options and authorizing the City Manager to negotiate and execute all related documents (Cory Sanders)

Staff Recommendation:

Approve

Summary/History:

Consider awarding Buyboard Contract #803-26 EMS Consumable Supplies to multiple vendors (Boundtree, Henry Schein, Life Assist, QuadMed) based on lowest bid in compliance with bid requirements for each specific item with an aggregate annual spend of \$180,000 budgeted per fiscal year and providing for a base term of one year with four additional one year extension options and authorizing the City Manager to execute all related documents.

Funding Source(s):

Financial Impact:

Annual funding in the amount of \$180,000 is available within the Fire/EMS Department Chemical/Medical Budget. Expenditures will be managed through controlled purchase orders based on real-time item availability and competitive pricing metrics.

Other Information/Recommendation:

The Fire/EMS Department requires a continuous, reliable supply of pre-hospital patient care items-including cardiac monitor accessories, medications, PPE-to maintain multi-station readiness 365 days a year. To fulfill these needs efficiently and at the best value, staff would prefer to utilize the Buyboard Purchasing Cooperative, which satisfies all competitive bidding requirements under Texas Local Government Code 271.102. Utilizing multiple authorized vendors under the same cooperative contract ensures procurement resilience. If a critical item faces a manufacturer shortage or backorder at one distributor, staff can seamlessly source the equivalent product from another approved contract holder without experiencing service disruptions or requiring emergency bidding procedures. All 4 selected vendors are currently awarded under Buyboard Contract #803-26.

Attachments:

Presentation:

Cory Sanders

Approvals/Reviews:

Cory Sanders

Patrick Brody

Brandon Dyson

Jeffrey Tomlinson

Tina Dierschke

Jonathan Flores

Brandon Dyson

Heather Stastny

Created/Initiated

Approved

Approved

Approved

Approved

Approved

Approved

Final Approval

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Patrick Brody, Fire Chief, Fire Department

Meeting Date: June 2, 2026

Item type: Consent Item

Caption:

Consider authorizing the Fire Department to apply for the FEMA Staffing for Adequate Fire and Emergency Response Grant and authorizing the City Manager to negotiate and execute all related documents (Patrick Brody)

Staff Recommendation:

Approve

Summary/History:

The Fire Department is requesting authorization to apply for the Staffing for Adequate Fire and Emergency Response (SAFER) Grant through FEMA. The SAFER Grant is designed to help fire departments increase or maintain the number of trained, "front line" firefighters available in their communities. This competitive, federally funded grant program provides a three-year cost-sharing opportunity to assist with personnel expenses. Under the current SAFER Grant structure, FEMA covers 75% of eligible personnel costs for the first two years and 35% in the third year. If awarded this grant, this will enhance our staffing levels and improve emergency response capabilities for our community.

The Fire Department is preparing for the future staffing needs associated with the planned addition of Fire Station #9. Applying for the SAFER Grant will help offset the initial costs of hiring additional personnel, allowing the City to strategically expand fire and emergency services in a financially responsible manner.

Funding Source(s):

Financial Impact:

Costs for 3 Years with SAFER Grant

Year 1	\$ 281,256
Year 2	\$ 359,076
Year 3	\$ 933,598

Total cost for 3 Years: \$1,573,930

Total cost savings over 3 years: \$2,423,703

3-year cost without the grant: \$3,997,633

Other Information/Recommendation:

Attachments:

Presentation:

Patrick Brody

Approvals/Reviews:

Patrick Brody	Created/Initiated
Patrick Brody	Approved
Brandon Dyson	Approved
Jonathan Flores	Approved
Tina Dierschke	Approved
Brandon Dyson	Approved
Heather Stastny	Final Approval

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Carl White, Parks and Recreation Director, Parks and Recreation

Meeting Date: June 2, 2026

Item type: Consent Item

Caption:

Consider a resolution authorizing a special event known as "Wake the Desert 2026" and approving variances to City ordinances at Middle Concho Park for July 10-12, 2026 (Carl White)

Staff Recommendation:

Adopt

Summary/History:

The Wakeboard event has been held at Lake Nasworthy for the past several years. Family Powersports has submitted a special event application to host the event at Middle Concho Park at Lake Nasworthy, July 10-12, 2026.

To hold the event, Family Powersports is asking for some specific variances to be waived. These include ordinances related to: creating wake in "no wake" zones, pulling devices in "no wake" areas, leaving movable structures or special vehicles in the park, exclusive use of the park, and driving and parking on areas other than paved park roads or parking areas.

This event IS NOT asking for a waiver of the noise ordinance.

The affected "no wake" areas during the event do not affect lake homeowner properties.

Funding Source(s):

Financial Impact:

There is no fiscal impact regarding this item. All attendees entering Middle Concho Park for the event must pay the required entrance fee.

Other Information/Recommendation:

Attachments:

- | | | |
|----|---|---|
| 1. | Application special event Wake the Desert | Application special event Wake the Desert.pdf |
| 2. | Resolution_Wake the Desert 2026 | Resolution_Wake the Desert 2026.docx |

Presentation:

Carl White

Approvals/Reviews:

Carl White

Brandon Dyson

Patrick Frerich

Brandon Dyson

Heather Stastny

Created/Initiated

Approved

Approved

Approved

Final Approval



Outlook

Online Form Submittal: Special Events Application

From noreply@civicplus.com <noreply@civicplus.com>

Date Wed 4/29/2026 12:22 PM

To White, Carl <Carl.White@sanangelo.gov>; Rodriguez, Dana <dana.rodriguez@sanangelo.gov>; Bell, Hannah <hannah.bell@sanangelo.gov>; McCleery, Deborah <deborah.mccleery@sanangelo.gov>

CAUTION: This email was received from an EXTERNAL source, use caution when clicking links or opening attachments.

Special Events Application

Request: waiving ordinances related to wake zones at the lake and driving ORVs at the park during the event, including set up + clean up.

Event Name:	WAKE THE DESERT
Event Date(s) and Hours:	JULY 10-12 (Friday - Sunday)
Event Location(s)	MIDDLE CONCHO PARK
Attendance, Estimated Daily/Overall:	300-500/1500
Event Purpose & Description	Wake the Desert is a wakeboarding and wake surfing competition hosted by Family Powersports. This three-day event brings together riders ages 3 and up from around the world, including competitors from England and Australia, who travel to San Angelo to participate. Wake the Desert was created to unite riders, celebrate the passion for the sport, and encourage a fun, competitive atmosphere for athletes of all skill levels. We will have vendors out there to have a chance to sell their products.
(Section Break)	
Type of Event (check one)	Nonprofit event
Other (describe)	tournament

Disclaimer

For private events contact the Parks & Recreation office.

(Section Break)

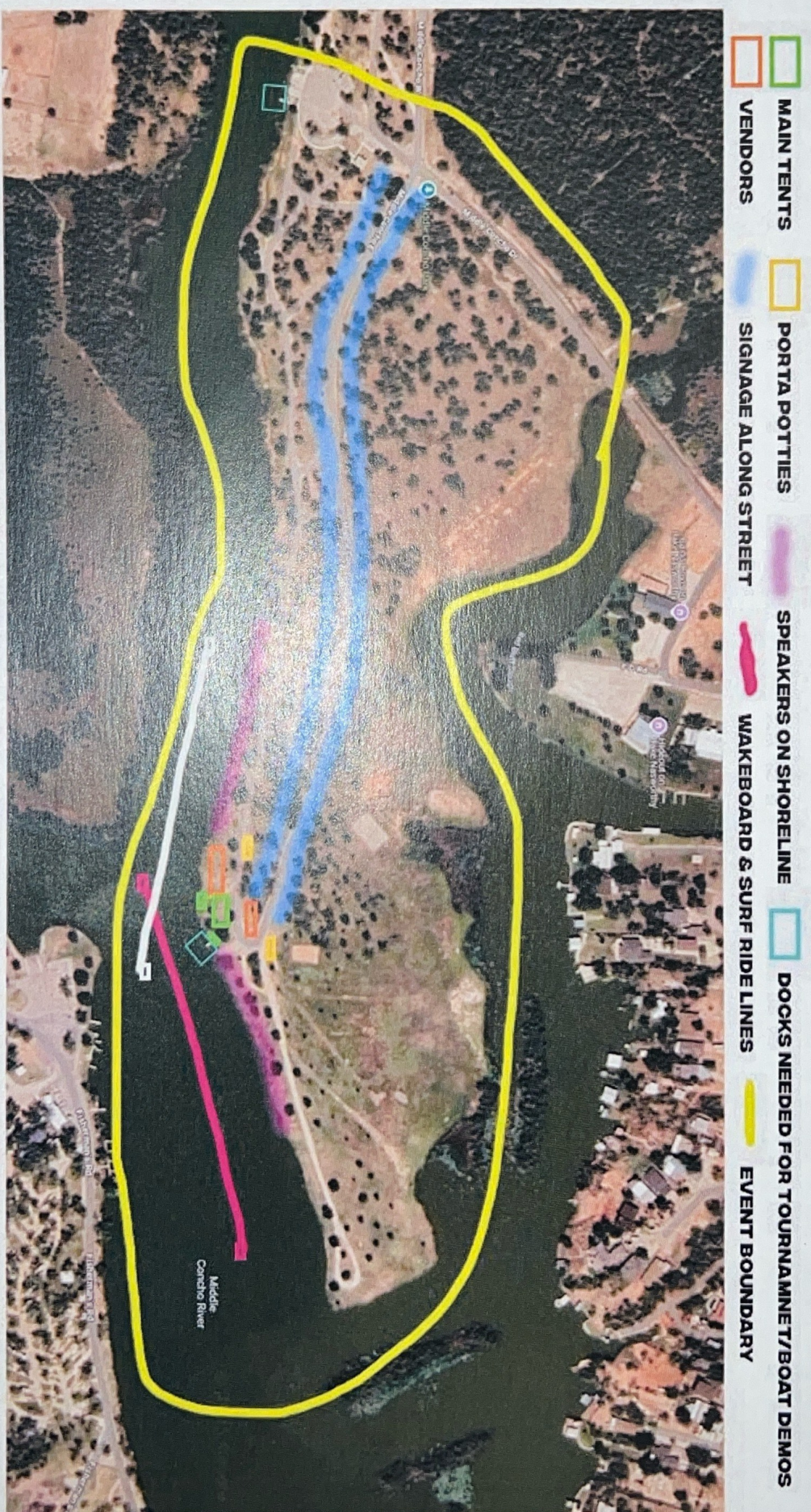
Event Sponsor Information

Legal Business Name	FAMILY POWERSPORTS SAN ANGELO
Email Address	AHARPER@FAMILYPOWERSPORTS.COM
Address	4160 W HOUSTON HARTE EXPY
City	SAN ANGELO
State	TX
Zip Code	76901
Phone Number	325-947-2453
Contact Name	AINSLEY HARPER/MARC CABRERA/STEVEN HARPER
Contact Phone Number	325-947-2453
Estimated Date/Time for Set Up:	7/6/2026 9:00 AM
Estimated Date/Time for Clean Up:	7/13/2026 9:00 AM
Describe set up and clean up procedures	We will start set up this includes hanging signage along the road, putting up tents, placing the marking buoys in the water, speakers, vendors, having the porta potties delivered, and some RV's will be delivered. The clean up process would begin July 12th right after the event, we would take down signage, tents, chairs, tables. We would also pick up trash. The RV's, tents and porta potties would be picked up July 13th.
Will the street closure and/or use be necessary?	No
Describe Crowd, Parking Control, and Security Plans for this event:	There will be a designated parking area.
Will music be provided/included during this event?	Yes
Describe the type of music proposed:	Live, Amplification, Recorded, Loud speakers
Proposed time music will begin:	8:30am
Proposed time music will end:	9:00pm
Describe Noise Control:	speakers will be kept at a volume where spectators can hear.
Do you plan to have special event signs and banners?	Yes

Describe the general nature of signage used for the event:	signage via banners on tpost, feather flags etc
Will the event have activities such as inflatables, amusement rides, climbing walls, live animals, etc?	No
If yes, describe in detail the types of attractions and activities proposed:	<i>Field not completed.</i>
Will the event have food, beverage, or concessions?	Yes
Describe in detail the general nature and scope of food, beverage, and concessions vendors:	We will have food trucks serving all three days of the event. No alcohol will be served.
Do you plan to have alcohol served at this event?	No
If alcohol is present at the event, describe measures to be taken to prohibit the sale and distribution of alcohol to minors:	<i>Field not completed.</i>
Will the following be placed or located in the event area?	Booths, Tents*, Tables, Trash Cans, Portable Toilets
Other (describe)	<i>Field not completed.</i>
Please list the quantity of each items that were selected above:	5-15 booths, 4 tents, 5-10 tables, 8 portable toilets, trash cans will be placed throughout the event 5-10
Upload supporting documents if needed	<u>wake the desert map 0001.pdf</u> (attached)

Email not displaying correctly? [View it in your browser.](#)

This message (including any attachments) is intended only for the use of the individual or entity to which it is addressed and may contain information that is non-public, proprietary, privileged, confidential, and may constitute attorney work product or be exempt from disclosure under one or more of the following sections of the Texas Public Information Act: SECS. 552.101, 552.103 or 552.107. If you are not the intended recipient, you are hereby notified that any use, dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, notify us immediately by telephone and (i) destroy this message if a facsimile or (ii) delete this message immediately if this is an electronic communication. Thank you.



A RESOLUTION OF THE CITY OF SAN ANGELO AUTHORIZING APPLICANT, FAMILY POWERSPORTS, TO HOLD A SPECIAL EVENT KNOWN AS “WAKE THE DESERT 2026” AND GRANTING VARIANCES FROM CITY ORDINANCES.

WHEREAS, the City Council for the City of San Angelo has approved a Special Event Application process through which individuals or groups may seek authorization to hold special events on public property; and,

WHEREAS, Chapter 9, Section 9.01.051 of the Code of Ordinances for the City of San Angelo provides that the City Council may authorize temporary variances from the prohibitions and requirements of City ordinances for such events; and,

WHEREAS, Family Powersports has requested for “Wake the Desert 2026” to take place at Middle Concho Park; and,

WHEREAS, the City Council has considered the proximity of the event to residential areas; the probability of the event causing undue disturbance to users of the city property; the ability of the organizers to ensure the safety of participants and observers; and the effect on public safety of the granting of variances for the event.

NOW THEREFORE BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF SAN ANGELO, TEXAS THAT:

Section 1: Family Powersports (hereinafter Applicant), is hereby authorized to hold a special event in Middle Concho Park, known as “WAKE THE DESERT 2026”. The event will take place from 8:00 AM Thursday, July 9, 2026, through 10:00 PM Monday, July 13, 2026. Set up will begin at 8:00 AM Wednesday, July 8, 2026, and cleanup will be completed by 10:00 PM Monday, July 13, 2026.

Section 2: The event may include those activities as described on that certain “City of San Angelo-Special Event Application” and attachments thereto (hereinafter collectively referred to as “Application”) submitted by Applicant, a copy of which is attached to this Resolution as **Exhibit A** and made a part hereof for all purposes.

Section 3: The variance referred to in the Application relating to Section 9.01.032(b)(3) operating any boat or watercraft in such a manner to create a wake in areas designated with signs or buoys as “No Wake” areas and pulling devices in areas designated “No Wake” or “No Skiing” Areas of the City Code of Ordinances, is hereby granted from 8:00 AM Wednesday, July 8, 2026 through 10:00 PM Monday, July 13, 2026.

Section 4: A variance related to Section 9.01.016(b)(1) (leaving movable structures or special vehicles in the park) for the event is hereby granted from 8:00 AM Wednesday, July 8, 2026, through 10:00 PM Monday, July 13, 2026.

Section 5: A variance related to Section 9.01.008 (setting a priority on use of fireplaces, picnic tables and benches other than first come first serve) for the event is hereby granted from 8:00 AM Wednesday, July 8, 2026, through 10:00 PM Monday, July 13, 2026.

Section 6: A variance related to Section 9.01.007 (a) and (b) (driving and parking on areas other than paved park roads or parking areas) for the event is hereby granted from 8:00 AM Wednesday, July 8, 2026, through 10:00 PM Monday, July 13, 2026.

Section 7: A variance related to tent permit fees for the event is hereby granted from 8:00 AM Wednesday, July 8, 2026, through 10:00 PM Monday, July 13, 2026.

Section 8: A variance related to the use of off-road vehicles (such as utility carts) for the event, at the entirety of Middle Concho Park, is hereby granted from 8:00 AM Wednesday, July 8, 2026, through 10:00 PM Monday, July 13, 2026.

PASSED and APPROVED THIS 2nd DAY OF JUNE, 2026.

ATTEST:

CITY OF SAN ANGELO, TEXAS

Heather Stastny, City Clerk

Tom Thompson, Mayor

APPROVED AS TO FORM

Brandon Dyson, City Attorney

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Aaron Vannoy, Director, Planning and Development Services

Meeting Date: June 2, 2026

Item type: Consent Item

Caption:

Second reading of the ordinances amending Chapter 12 "Planning and Development", Exhibit A "Zoning Ordinance" regarding the creation of the new residential districts as follows:

1. Amending Article 3 "Use Regulations", Section 303 "Residential District Intent Statements";
2. Amending Article 3 "Use Regulations", Section 313 "Use Table";
3. Amending Article 3 "Use Regulations", Section 314 "Residential Structure Types"; and
4. Amending Article 5 "General Development Standards", Section 501 "Residential District Standards" (Aaron Vannoy)

Staff Recommendation:

Adopt

Summary/History:

Funding Source(s):

Financial Impact:

Other Information/Recommendation:

Attachments:

- | | |
|--|---|
| 1. Sec 303 Residential Intent Statements | Sec 303 Residential Intent Statements.pdf |
| 2. Sec. _314.____Residential_Structure_Types_Clean v2_041126 | Sec. _314.____Residential_Structure_Types_Clean v2_041126.pdf |
| 3. Sec. _501.____clean v4_040826 | Sec. _501.____clean v4_040826.pdf |
| 4. Adopting ordiancne Sec 501 | Adopting ordiancne Sec 501.docx |
| 5. Adopting Ordinance Sec 314 Structure types | Adopting Ordinance Sec 314 Structure types.docx |
| 6. Adopting ordinance - Intent statements RV | Adopting ordinance - Intent statements RV.docx |
| 7. Sec. _313._Use Table | Sec. _313._Use Table.pdf |
| 8. Adopting ordinance Sec 313 full use table | Adopting ordinance Sec 313 full use table.pdf |

Presentation:

Aaron Vannoy

Approvals/Reviews:

Aaron Vannoy

Aaron Vannoy

Brandon Dyson

Heather Stastny

Created/Initiated

Approved

Approved

Final Approval

Sec. 303. Residential District Intent Statements

- A. *R&E (Ranch and Estate) District.* The Ranch and Estate District is intended to provide opportunities for development of low density, detached single-family residences on lots of at least one acre in a suburban or rural setting. This District is also intended to serve as a holding zone for vacant land areas annexed to the City.
- B. *RS-1 (Single-Family Residential) District.* The Single-Family Residential District is intended to provide opportunities for development of detached single-family residences at medium densities.
- C. *RS-2 (Two-Family Residential) District.* The Two-Family Residential District is intended to provide opportunities for development of detached single-family residences and two-family residences at medium densities.
- D. *RS-3 (Zero Lot Line, Twinhome and Townhome Residential) District.* The Zero Lot Line, Twinhome and Townhome District is intended to provide opportunities for medium density residential development using townhome, twinhome and zero lot line concepts to incorporate (1) more efficient use of land than typical single-family development, making needed housing more affordable; (2) design of dwellings that integrate and relate internal/external living areas resulting in more pleasant and enjoyable housing; and (3) placement of dwellings against the property line, permitting outdoor space to be grouped and utilized to its maximum benefit.
- E. *RS-4 (Small Lot Residential) District.* The Small Lot Residential District is intended to provide opportunities for development of detached single-family residences on smaller lots between 3,000 and 5,500 square feet.
- F. *RS-5 (Infill Residential) District.* The Infill Residential District is intended to provide opportunities for development of residences within the designated infill area of the city. With lot sizes between 2,500 and 6,000 square feet, and with several residential structure types allowed, RS-5 seeks to introduce flexibility to those looking to subdivide or build upon smaller vacant spaces within infill areas as to meet housing needs and promote affordability.
- G. *RS-6 (Three- and Four-Family Residential) District.* The Three- and Four-Family Residential District is intended to provide opportunities for development of detached three-family and four-family residences at medium to high densities.
- H. *RM-1 (Low-Rise Multifamily Residential) District.* The Low-Rise Multifamily Residential District is intended to provide opportunities for development of low-rise, two-story or walk-up apartments.
- I. *RM-1L (Low-Rise Multifamily Legacy Residential) District.* The Low-Rise Multifamily Legacy Residential District is intended to allow properties zoned RM-1 on or before May 5th, 2026, to retain their development standards rather than those of the newly amended RM-1 district. In no case should a property be rezoned to the Low-Rise Multifamily Legacy District.
- J. *RM-2 (High-Rise Multifamily Residential) District.* The High-Rise Multifamily Residential District is intended to provide opportunities for development of high-rise apartments.
- K. *MHP (Manufactured Housing Park) District.* The Manufactured Housing Park District is intended to provide opportunities for development of land with improvements and utilities specifically for the accommodation of manufactured housing in projects under unified management and control. These parks may include other services and common facilities for use by the residents. Any MHP district may include more than one manufactured housing park as long as each park within the district is under unified management and control.
- L. *MHS (Manufactured Housing Subdivision) District.* The Manufactured Housing Subdivision District is intended to provide opportunities for development of land subdivided into two or more lots for the purpose of sale and occupancy with manufactured housing units.

Sec. 314. Residential Structure Types

Household and Group Living uses must comply with the following table in regard to location of individual structure types. Residential Household and Group Living uses must comply with the following table in regard to location of individual structure types. Residential uses allowed in nonresidential districts may be housed in any type of residential structure except single-family detached and mobile and manufactured homes. All structure types are defined in Article 8, and additional standards are included in Section 501 for zero lot line dwellings, twinhomes and townhouses.

Structure Type	Zoning District											
	R&E	RS1	RS2	RS3	RS4	RS5*	RS6	RM1L	RM1	RM2	MHP	MHS
Single-Family Detached	A	A	A	-	A	A	-	A	-	-	-	A
Accessory Apartment	A	-	A	-	-	-	-	A	-	-	-	-
Two-Family Dwelling	-	-	A	-	-	A	-	A	-	-	-	-
Zero Lot Line Dwelling	-	-	-	A	-	A	-	A	-	-	-	-
Twinhome	-	-	A	A	-	A	-	A	-	-	-	-
Townhouse	-	-	-	A	-	A	-	A	-	-	-	-
Triplex/Quadraplex	-	-	-	-	-	-	A	-	-	-	-	-
Multifamily Dwelling	-	-	-	-	-	-	-	A	A	A	-	-
Manufactured Home	S***	S***	S***	-	-	-	-	-	-	-	A	A
Industrialized House	A	A	A	A	A	A	A	-	A	-	-	A
Group Living Structure**	-	-	-	-	-	-	-	A	A	A	-	-

Refer to Section 501 for additional standards.

Legend: A = Allowed; S = Special Use; “-” = Not Allowed

*RS-5 zoning district is only allowed within designated infill areas.

**Structure type allowed only with approved group living use.

*** Refer to Section 501.F and Article 12.03 for additional standards.

(Ordinance adopted 1-4-00; Ordinance 2017-09-131, § 4, adopted 9-5-17; Ord. No. 2019-121, § 2, 9-17-19)

Editor's note(s)—Former Sec. 311, see editor's note at Sec. 312.

Sec. 501. Residential District Standards

A. *Residential District Regulations.* Development in residential districts shall conform to the following regulations.

Development Standard	Single-Family							Multifamily			Manufactured	
	R&E	RS-1	RS-2	RS-3	RS-4**	RS-5**	RS-6	RM-1L	RM-1	RM-2	MHP	MHS
*Minimum Lot Area (sq. ft.)	43,560	5,000	6,000	2,100	3,000	2,500	[1]	[7L]	7,000	43,560	[6]	4,600
Maximum Lot Area	-	-	-	-	5,500	6,000	-	-	-	-	-	-
Minimum Lot Dimensions (feet in width)	120'	50'	50'	30'	35'	35'	[1]	[7L]	50'	200'	[6]	40'
Minimum Front Yard (feet)	40	20	20	[2]	[2]	15	18	[2L]	[2]	20	20	25
Minimum Side Yard (feet)												
One side yard (minimum)	15	5	5	[3]	5	5	5	[3L]	[3]	20	20	5
The other side yard (minimum)	15	5	5		5	5	5			20	20	5
Minimum Rear Yard (feet)	20	[4]	[4]	10	10	10	15	[5L]	[5]	20	20	20
Maximum Height												
In feet	35	35	35	35	35	35	35	35	35	-	-	-
In stories	2-½	2-½	2-½	2-½	2-1/2	2-1/2	2-1/2	2-1/2	2-½	-	-	-
Maximum Density (units/gross acre)	-	-	-	-	-	-	16	25	25	35	10	-

NOTES:

*Additional lot area may be required under state law in circumstances where disposal of septic wastewater will be discharged through on-site waste treatment facilities (including septic systems).

**RS-4 zoning has a minimum of 1 parking space required. RS-5 zoning has a minimum of 1 space per unit required.

[1] Triplex is minimum lot size of 6,000 sq ft and minimum lot frontage of 35' and minimum of 6 parking spaces. Quadraplex is minimum lot size of 7,000 sq ft and minimum lot frontage of 50' and minimum of 8 parking spaces.

[2] RS-3 and RS-4 require a minimum 18' front yard or 15' with rear entry; multifamily residential and group living structures require a minimum 25-foot front yard.

[2L] Single-family and two-family units require a minimum 25-foot front yard; multifamily residential and group living structures require a minimum 25-foot front yard; zero lot line, twin home units and townhouse units require a minimum 15-foot front yard, except on arterial streets, where the minimum front yard shall be 25 feet.

[3] Apartment dwelling units or group homes require a minimum 10-foot side yard on both sides; and zero lot line units generally require one side yard of at least ten feet, and the other side yard may be reduced to 0 feet, but not more than one foot. See Subsections C and D for side separation standards required of twin home and townhouse units, respectively.

[3L] Single-family and two-family units generally require a minimum 5-foot side yard on both sides; apartment dwelling units or group homes require a minimum 10-foot side yard on both sides; and zero lot line units generally require one side yard of at least ten feet, and the other side yard may be reduced to 0 feet, but not more than one foot. See Subsections C and D for side separation standards required of twin home and townhouse units, respectively.

[4] Twenty (20) feet except as allowed by Subsection 402.A.1.b, specifically, for certain substantially open structures.

[5] Multifamily residential and group living structures require a minimum 20-foot rear yard.

[5L] Single-family units and two-family units require a minimum 20-foot rear yard except as specifically allowed under Chapter 12, Exhibit "A," Article 4 "Specific Use Standards," Subsection 402.A.1.b for certain substantially open structures; zero lot line, townhouse and twin home units require a minimum 10-foot rear yard. Multifamily residential and group living structures require a minimum 20-foot rear yard.

[6] Overall minimum lot size for establishment of a Manufactured Housing Park is ten acres; within the overall lot, each space for placement of a mobile home or HUD-code manufactured home is required to be: (1) For any Manufactured Housing: (a) Two thousand four hundred square feet, with a minimum lot dimension of 34 feet if designed to accommodate a single or double wide Manufactured Home not exceeding 960 square feet within its walls; or (b). Three thousand six hundred square feet, with a minimum lot dimension of 40 feet if designed to accommodate a double or triple wide Manufactured Home exceeding 960 square feet within its walls; and (2) For any Mobile Home: (a) Two thousand four hundred square feet, with a minimum lot dimension of 34 feet if designed to accommodate a single or double wide Mobile Home not exceeding 960 square feet within its walls; or (b) Three thousand six hundred square feet, with a minimum lot dimension of 40 feet if designed to accommodate a double or triple wide Mobile Home exceeding 960 square feet within its walls. The minimum lot size for any Recreational Vehicle space shall be a minimum of 1500 square feet.

[7L] Minimum Lot Area for Single-Family Unit: 5,000; Two-Family Unit: 6,500; Zero-Lot Line or Twinhome Unit: 2,500; Townhouse Unit: 1,875; Multifamily: 7,000. Minimum Lot Dimensions: Single-Family Unit: 50'x100'; Two-Family Unit: 50'x100'; Zero-Lot Line or Twinhome Unit: 40'x60'; Townhouse Unit: 25'x75'; Multifamily: 60'x100'.

B. *Additional Standards for Zero Lot Line Dwellings*

1. Side yards on lots with a zero-lot line dwelling shall meet the following requirements.
 - a. One side yard must be a minimum of ten feet.
 - b. The remaining side yard may range from 0 feet, up to a maximum of one foot, except for lots where minimum setbacks required from side streets or from adjoining lots in other zoning districts necessitate this remaining side yard to be a minimum of 5 feet. In no circumstance shall the separation between a zero-lot line home and any dwelling on an adjoining lot be less than ten feet.

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- c. Any side yard abutting a street right-of-way must be a minimum of 5 feet.
 - d. Any side yard abutting a lot in a different zoning district must be a minimum of 5 feet.
 - e. A maximum 2-foot eave overhang is allowed within these required side yards.
- 2. A perpetual easement with a minimum width of four feet shall be provided on the adjacent lot, for the maintenance of the wall of the dwelling with the zero-lot line. This required easement shall be in favor of the lot on which a zero-lot line is planned at or near the boundary to which this easement is adjacent. This required easement shall extend along the entire length of the side boundary to which the easement is adjacent.
 - 3. Except as permitted by subparagraphs a and b below, no doors or window openings of any kind (and no air conditioning units, utility meters and electric panel boxes) shall be allowed on the wall of a dwelling or accessory building that lies on or faces a zero-lot line.
 - a. Any portion of an exterior wall which lies at least three feet from and substantially parallel to the zero lot line side boundary shall not be considered on the zero-lot line, and any portion of an exterior wall which lies substantially perpendicular to a zero lot line side boundary shall also not be considered on the zero lot line. Doors and windows shall generally be permitted on such walls, subject to the following limitation(s) and requirement(s):
 - (1) If a door and/or window opens onto a courtyard substantially framed by a dwelling's exterior walls on at least three sides, and such door or window would offer the only practicable means of exterior access to and from a bedroom, then such door or window shall not be permitted.
 - (2) If a door and/or window opens onto a courtyard which is substantially framed by a dwelling's exterior walls on at least three sides, and the remaining side(s) of such courtyard open(s) onto a zero lot line side boundary, then the remaining side(s) of such courtyard shall be enclosed by a privacy wall extending along that zero lot line side boundary. Said privacy wall shall be at least six feet (6') but no more than eight feet (8') in height and, furthermore, shall be composed of solidly opaque materials which are substantially the same as those comprising the adjoining exterior walls on the residence.
 - b. One or more translucent windows (as approved by the Building Official) shall be allowed on the zero-lot line side of the lot on which a dwelling or accessory building is located.
 - (1) The cumulative area of such translucent window(s) shall not exceed 16 square feet in size.
 - 4. The roof of each unit must be designed to prevent stormwater runoff from draining onto the adjacent lot.
 - 5. Required easements shall be shown on the final plat. If required easements are not shown on the final plat of lots for zero lot line homes, then such easements shall be created by means of a replat or other separate legal instrument filed with the Clerk of Tom Green County, before permits for building are granted by the City.
 - 6. In no case shall the owner of any zero-lot line dwelling be granted an easement on the adjoining property for the use or enjoyment of any portion of that property, except for a 4-foot maintenance easement in number 3 above.

C. *Additional Standards for Twinhomes*

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1. Only one twinhome dwelling shall be allowed on a single lot.
 2. Any lot occupied by a twinhome dwelling shall have a minimum side yard of ten feet along any side boundary not adjacent to another twinhome structure.

D. *Additional Standards for Townhouses*

1. Only one townhouse dwelling shall be allowed on a single lot.
2. For the purposes of this subsection, a cluster of attached townhouse dwellings shall be referred to as a townhouse structure. The minimum space required between townhouse structures shall be as follows.
 - a. The end walls are to be fire-rated as defined by the city's building code, no minimum space shall be required.
 - b. In all other cases, a minimum spacing of ten feet shall be required. A maximum 2-foot eave overhang is allowed within this required separation area.
3. A minimum space of ten feet shall be required between a townhouse structure and any other residential structure (other than a townhouse) or the side boundary of any lot in a non-residential zoning district. A maximum 2-foot eave overhang is allowed within this required separation area.
4. Walls between individual dwelling units in a townhouse structure shall be fire-rated as defined by the City's building code, including adjoining walls and ceilings where a garage or carport is adjacent to or connected with any living area.
5. The number of individual townhouse dwelling units in a townhouse structure shall be no more than 8 units, nor less than 3 units. The Building Official shall grant no certificates of occupancy for less than 3 attached dwellings in a townhouse structure.

E. *Additional Standards for Industrialized Housing.*

1. All industrialized housing shall have exterior siding, roofing, roof pitch, foundation fascia, and fenestration compatible with the single-family dwellings located within 500 feet of the outer boundaries of the lot on which the industrialized housing is proposed to be located.
2. All industrialized housing shall comply with City building setbacks, subdivision control, square footage, and other site requirements applicable.
3. All industrialized housing shall be securely fixed to a permanent foundation.
4. Any property owner or authorized agent who intends to construct, erect, install, or move any industrialized housing into the City shall first make application to the Building Official and obtain the required permits.
5. If the industrialized housing is the principal single-family dwelling on a lot and is less than 1,200 square feet:
 - a. It shall have a value equal to or greater than the median taxable value for each single-family dwelling located within 500 feet of the outer boundaries of the lot on which the industrialized housing is proposed to be located, as determined by the most recent certified tax appraisal roll for the County. For purposes of this subsection, "value" shall mean the taxable value of the industrialized housing and lot after installation of the housing.

- b. If no single-family dwellings exist within 500 feet of the outer boundaries of the lot, the property owner shall not be required to demonstrate comparable value.
- c. If there are existing single-family dwellings, the Planning Director shall determine compliance with comparable value after the property owner has provided a list of the addresses and current tax valuations of all existing single-family dwellings within 500 feet of the lot on which the industrialized housing will be located and a statement from the tax assessor or a competent appraiser of the taxable value that the lot and industrialized housing will have after installation.

F. *Additional standards for manufactured homes in the RS-1, RS-2, or R&E Zoning Districts after September 5, 2017:*

- (a) An applicant that seeks to place a manufactured home on a property may do so provided that a previous mobile home or manufactured home existed on the premises within one year (365 days) of the date of the application. The applicant shall provide evidence satisfactory to the Planning Director, or his designee, that a previous mobile home or manufactured home existed on the premises within the one year period.
- (b) All manufactured homes shall comply with city building setbacks, subdivision control, square footage, and other site requirements applicable for the applicable Zoning District and housing type.
- (c) The owner of an existing manufactured home may remove the manufactured home from its location and place another manufactured home on the same property, provided that the replacement is a newer manufactured home and is at least as large in living space as the prior manufactured home.

G. *Standards for Nonresidential Uses Allowed in Residential Districts.* Principal nonresidential uses allowed in residential zoning districts identified in the table below shall be subject to the same General Development Standards as that certain type of housing which corresponds to such residential district, as follows.

District	Housing Type
R&E	Single-Family Residential
RS-1	Single-Family Residential
RS-2	Two-Family Residential
RM-1	Multifamily Residential
RM-2	Multifamily Residential

- H. *Yard Requirements along District Boundaries.* Whenever a block face is intersected by a district boundary, all lots fronting on that block face shall conform with the minimum front yard requirements of the most restrictive district found on that block face.
- I. *Yard Requirements for Accessory Structures.* See Sec. 402: Accessory Uses and Structures
- J. *Yard Determination by Planning Director.* Where a lot does not conform to typical lot and block configuration, the Planning Director shall determine which lot lines shall be considered front, side and rear lot lines. In making this determination, the Planning Director shall take into consideration the pattern of adjacent lots, as well as the frontage of lots across an intervening street. Building orientation or address shall not determine yard requirements.
- K. *Additional Standards for Front and Side Yards*

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1. Where 35% or more of a block face between intersecting streets is developed with buildings which have observed, with a variation of five feet or less, a front yard greater or lesser than required by this Section, new buildings shall not be erected closer to the street right-of-way than the building line so established by those existing buildings. This regulation shall not be interpreted as requiring a minimum front yard of more than 50 feet.
 2. Where a building line is shown on a plat recorded with the Tom Green County Clerk, and such building line provides a front yard and/or side yard greater than required by this Section and is part of a comprehensive plan for orderly development of a subdivision with either a uniform or staggered building line, no building shall be located more than 5 feet closer to the street right-of-way than the building line established on the plat, as long as other minimum setback standards of this Section are met.
 3. For all uses in residential districts and for residential uses in any district, on a corner lot where another lot abutting the rear of that corner fronts onto a side street, there shall be a front yard required on all streetside boundaries of that corner lot. For the purpose of this subsection, any separation by an alley, utility-owned right-of-way, watercourse or other drainage feature with a minimum width of ten feet shall cause nearby lots to not be abutting.

a. Street Frontage

- i. Front yard determined by the developer is the standard front yard for the zoning district in which the lot is located in.
- ii. Side yard adjacent to the second street will be a minimum of 10 feet.
- iii. A variance can only be requested if more than 10 feet of Right-of-Way is present.

(Ordinance adopted 1-4-00; Ordinance adopted 4-18-06; Ordinance adopted 4-15-14; Ordinance adopted 5-2-17; Ordinance 2017-09-131, §§ 5, 6, adopted 9-5-17; Ord. No. 2020-091, § 1, 9-29-20)

ORDINANCE 2026

AN ORDINANCE OF THE CITY OF SAN ANGELO, TEXAS, AMENDING CHAPTER 12 "PLANNING AND DEVELOPMENT," EXHIBIT A "ZONING ORDINANCE," ARTICLE 5 "GENERAL DEVELOPMENT STANDARDS," SECTION 501 "RESIDENTIAL DISTRICT STANDARDS", PROVIDING FOR SEVERABILITY; AND, PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, on the 19th day of May, 2026, the Planning Commission for the City of San Angelo and the City Council, after having given due and proper notice and held a joint public hearing, considered public comment, and considered recommendations from City staff, City Council desires to amend **Chapter 12 "Planning and Development," Exhibit A "Zoning Ordinance," Article 5 "General Development Standards," Section 501 "Residential District Standards"**.

NOW THEREFORE, BE IT ORDAINED BY THE CITY OF SAN ANGELO, TEXAS

Section 1. Chapter 12 "Planning and Development," Exhibit A "Zoning Ordinance," Article 5 "General Development Standards," Section 501 "Residential District Standards" are hereby amended as set forth in Exhibit "A" attached hereto and incorporated herein for all purposes.

Section 2. The terms and provisions of this ordinance shall be deemed to be severable in that if any portion of this ordinance shall be declared to be invalid, the same shall not affect the validity of the other provisions of this ordinance.

Section 3. This Ordinance shall be effective on and after June 2nd, 2026.

INTRODUCED with public hearing the 19th day of May 2026, and finally PASSED this 2nd day of June 2026.

THE CITY OF SAN ANGELO, TEXAS:

Tom Thompson, Mayor

ATTEST:

Heather Stastny, City Clerk

APPROVED AS TO CONTENT:

Aaron Vannoy, Director of Planning
And Development Services

APPROVED AS TO FORM:

Brandon Dyson, City Attorney

Exhibit “A”

Sec. 501. Residential District Standards

- A. *Residential District Regulations.* Development in residential districts shall conform to the following regulations.

Development Standard	Single-Family							Multifamily			Manufactured	
	R&E	RS-1	RS-2	RS-3	RS-4**	RS-5**	RS-6	RM-1L	RM-1	RM-2	MHP	MHS
*Minimum Lot Area (sq. ft.)	43,560	5,000	6,000	2,100	3,000	2,500	[1]	[7L]	7,000	43,560	[6]	4,600
Maximum Lot Area	-	-	-	-	5,500	6,000	-	-	-	-	-	-
Minimum Lot Dimensions (feet in width)	120'	50'	50'	30'	35'	35'	[1]	[7L]	50'	200'	[6]	40'
Minimum Front Yard (feet)	40	20	20	[2]	[2]	15	18	[2L]	[2]	20	20	25
Minimum Side Yard (feet)												
One side yard (minimum)	15	5	5	[3]	5	5	5	[3L]	[3]	20	20	5
The other side yard (minimum)	15	5	5		5	5	5			20	20	5
Minimum Rear Yard (feet)	20	[4]	[4]	10	10	10	15	[5L]	[5]	20	20	20
Maximum Height												
In feet	35	35	35	35	35	35	35	35	35	-	-	-
In stories	2-½	2-½	2-½	2-½	2-1/2	2-1/2	2-1/2	2-1/2	2-½	-	-	-
Maximum Density (units/gross acre)	-	-	-	-	-	-	16	25	25	35	10	-

NOTES:

*Additional lot area may be required under state law in circumstances where disposal of septic wastewater will be discharged through on-site waste treatment facilities (including septic systems).

**RS-4 zoning has a minimum of 1 parking space required. RS-5 zoning has a minimum of 1 space per unit required.

[1] Triplex is minimum lot size of 6,000 sq ft and minimum lot frontage of 35' and minimum of 6 parking spaces. Quadraplex is minimum lot size of 7,000 sq ft and minimum lot frontage of 50' and minimum of 8 parking spaces.

[2] RS-3 and RS-4 require a minimum 18' front yard or 15' with rear entry; multifamily residential and group living structures require a minimum 25-foot front yard.

[2L] Single-family and two-family units require a minimum 25-foot front yard; multifamily residential and group living structures require a minimum 25-foot front yard; zero lot line, twin home units and townhouse units require a minimum 15-foot front yard, except on arterial streets, where the minimum front yard shall be 25 feet.

[3] Apartment dwelling units or group homes require a minimum 10-foot side yard on both sides; and zero lot line units generally require one side yard of at least ten feet, and the other side yard may be reduced to 0 feet, but not more than one foot. See Subsections C and D for side separation standards required of twin home and townhouse units, respectively.

[3L] Single-family and two-family units generally require a minimum 5-foot side yard on both sides; apartment dwelling units or group homes require a minimum 10-foot side yard on both sides; and zero lot line units generally require one side yard of at least ten feet, and the other side yard may be reduced to 0 feet, but not more than one foot. See Subsections C and D for side separation standards required of twin home and townhouse units, respectively.

[4] Twenty (20) feet except as allowed by Subsection 402.A.1.b, specifically, for certain substantially open structures.

[5] Multifamily residential and group living structures require a minimum 20-foot rear yard.

[5L] Single-family units and two-family units require a minimum 20-foot rear yard except as specifically allowed under [Chapter 12](#), Exhibit "A," Article 4 "Specific Use Standards," Subsection 402.A.1.b for certain substantially open structures; zero lot line, townhouse and twin home units require a minimum 10-foot rear yard. Multifamily residential and group living structures require a minimum 20-foot rear yard.

[6] Overall minimum lot size for establishment of a Manufactured Housing Park is ten acres; within the overall lot, each space for placement of a mobile home or HUD-code manufactured home is required to be: (1) For any Manufactured Housing: (a) Two thousand four hundred square feet, with a minimum lot dimension of 34 feet if designed to accommodate a single or double wide Manufactured Home not exceeding 960 square feet within its walls; or (b). Three thousand six hundred square feet, with a minimum lot dimension of 40 feet if designed to accommodate a double or triple wide Manufactured Home exceeding 960 square feet within its walls; and (2) For any Mobile Home: (a) Two thousand four hundred square feet, with a minimum lot dimension of 34 feet if designed to accommodate a single or double wide Mobile Home not exceeding 960 square feet within its walls; or (b) Three thousand six hundred square feet, with a minimum lot dimension of 40 feet if designed to accommodate a double or triple wide Mobile Home exceeding 960 square feet within its walls. The minimum lot size for any Recreational Vehicle space shall be a minimum of 1500 square feet.

[7L] Minimum Lot Area for Single-Family Unit: 5,000; Two-Family Unit: 6,500; Zero-Lot Line or Twinhome Unit: 2,500; Townhouse Unit: 1,875; Multifamily: 7,000. Minimum Lot Dimensions: Single-Family Unit: 50'x100'; Two-Family Unit: 50'x100'; Zero-Lot Line or Twinhome Unit: 40'x60'; Townhouse Unit: 25'x75'; Multifamily: 60'x100'.

B. *Additional Standards for Zero Lot Line Dwellings*

1. Side yards on lots with a zero-lot line dwelling shall meet the following requirements.
 - a. One side yard must be a minimum of ten feet.
 - b. The remaining side yard may range from 0 feet, up to a maximum of one foot, except for lots where minimum setbacks required from side streets or from adjoining lots in other zoning districts necessitate this remaining side yard to be a minimum of 5 feet. In no circumstance shall the separation between a zero-lot line home and any dwelling on an adjoining lot be less than ten feet.
 - c. Any side yard abutting a street right-of-way must be a minimum of 5 feet.

- d. Any side yard abutting a lot in a different zoning district must be a minimum of 5 feet.
 - e. A maximum 2-foot eave overhang is allowed within these required side yards.
- 2. A perpetual easement with a minimum width of four feet shall be provided on the adjacent lot, for the maintenance of the wall of the dwelling with the zero-lot line. This required easement shall be in favor of the lot on which a zero-lot line is planned at or near the boundary to which this easement is adjacent. This required easement shall extend along the entire length of the side boundary to which the easement is adjacent.
 - 3. Except as permitted by subparagraphs a and b below, no doors or window openings of any kind (and no air conditioning units, utility meters and electric panel boxes) shall be allowed on the wall of a dwelling or accessory building that lies on or faces a zero-lot line.
 - a. Any portion of an exterior wall which lies at least three feet from and substantially parallel to the zero lot line side boundary shall not be considered on the zero-lot line, and any portion of an exterior wall which lies substantially perpendicular to a zero lot line side boundary shall also not be considered on the zero lot line. Doors and windows shall generally be permitted on such walls, subject to the following limitation(s) and requirement(s):
 - (1) If a door and/or window opens onto a courtyard substantially framed by a dwelling's exterior walls on at least three sides, and such door or window would offer the only practicable means of exterior access to and from a bedroom, then such door or window shall not be permitted.
 - (2) If a door and/or window opens onto a courtyard which is substantially framed by a dwelling's exterior walls on at least three sides, and the remaining side(s) of such courtyard open(s) onto a zero lot line side boundary, then the remaining side(s) of such courtyard shall be enclosed by a privacy wall extending along that zero lot line side boundary. Said privacy wall shall be at least six feet (6') but no more than eight feet (8') in height and, furthermore, shall be composed of solidly opaque materials which are substantially the same as those comprising the adjoining exterior walls on the residence.
 - b. One or more translucent windows (as approved by the Building Official) shall be allowed on the zero-lot line side of the lot on which a dwelling or accessory building is located.
 - (1) The cumulative area of such translucent window(s) shall not exceed 16 square feet in size.
 - 4. The roof of each unit must be designed to prevent stormwater runoff from draining onto the adjacent lot.
 - 5. Required easements shall be shown on the final plat. If required easements are not shown on the final plat of lots for zero lot line homes, then such easements shall be created by means of a replat or other separate legal instrument filed with the Clerk of Tom Green County, before permits for building are granted by the City.
 - 6. In no case shall the owner of any zero-lot line dwelling be granted an easement on the adjoining property for the use or enjoyment of any portion of that property, except for a 4-foot maintenance easement in number 3 above.
- C. *Additional Standards for Twinhomes*
- 1. Only one twinhome dwelling shall be allowed on a single lot.
 - 2. Any lot occupied by a twinhome dwelling shall have a minimum side yard of ten feet along any side boundary not adjacent to another twinhome structure.
- D. *Additional Standards for Townhouses*
- 1. Only one townhouse dwelling shall be allowed on a single lot.

2. For the purposes of this subsection, a cluster of attached townhouse dwellings shall be referred to as a townhouse structure. The minimum space required between townhouse structures shall be as follows.
 - a. The end walls are to be fire-rated as defined by the city's building code, no minimum space shall be required.
 - b. In all other cases, a minimum spacing of ten feet shall be required. A maximum 2-foot eave overhang is allowed within this required separation area.
3. A minimum space of ten feet shall be required between a townhouse structure and any other residential structure (other than a townhouse) or the side boundary of any lot in a non-residential zoning district. A maximum 2-foot eave overhang is allowed within this required separation area.
4. Walls between individual dwelling units in a townhouse structure shall be fire-rated as defined by the City's building code, including adjoining walls and ceilings where a garage or carport is adjacent to or connected with any living area.
5. The number of individual townhouse dwelling units in a townhouse structure shall be no more than 8 units, nor less than 3 units. The Building Official shall grant no certificates of occupancy for less than 3 attached dwellings in a townhouse structure.

E. *Additional Standards for Industrialized Housing.*

1. All industrialized housing shall have exterior siding, roofing, roof pitch, foundation fascia, and fenestration compatible with the single-family dwellings located within 500 feet of the outer boundaries of the lot on which the industrialized housing is proposed to be located.
2. All industrialized housing shall comply with City building setbacks, subdivision control, square footage, and other site requirements applicable.
3. All industrialized housing shall be securely fixed to a permanent foundation.
4. Any property owner or authorized agent who intends to construct, erect, install, or move any industrialized housing into the City shall first make application to the Building Official and obtain the required permits.
5. If the industrialized housing is the principal single-family dwelling on a lot and is less than 1,200 square feet:
 - a. It shall have a value equal to or greater than the median taxable value for each single-family dwelling located within 500 feet of the outer boundaries of the lot on which the industrialized housing is proposed to be located, as determined by the most recent certified tax appraisal roll for the County. For purposes of this subsection, "value" shall mean the taxable value of the industrialized housing and lot after installation of the housing.
 - b. If no single-family dwellings exist within 500 feet of the outer boundaries of the lot, the property owner shall not be required to demonstrate comparable value.
 - c. If there are existing single-family dwellings, the Planning Director shall determine compliance with comparable value after the property owner has provided a list of the addresses and current tax valuations of all existing single-family dwellings within 500 feet of the lot on which the industrialized housing will be located and a statement from the tax assessor or a competent appraiser of the taxable value that the lot and industrialized housing will have after installation.

F. *Additional standards for manufactured homes in the RS-1, RS-2, or R&E Zoning Districts after September 5, 2017:*

- (a) An applicant that seeks to place a manufactured home on a property may do so provided that a previous mobile home or manufactured home existed on the premises within one year (365 days) of the date of the application. The applicant shall provide evidence satisfactory to the Planning Director,

or his designee, that a previous mobile home or manufactured home existed on the premises within the one year period.

- (b) All manufactured homes shall comply with city building setbacks, subdivision control, square footage, and other site requirements applicable for the applicable Zoning District and housing type.
- (c) The owner of an existing manufactured home may remove the manufactured home from its location and place another manufactured home on the same property, provided that the replacement is a newer manufactured home and is at least as large in living space as the prior manufactured home.

- G. *Standards for Nonresidential Uses Allowed in Residential Districts.* Principal nonresidential uses allowed in residential zoning districts identified in the table below shall be subject to the same General Development Standards as that certain type of housing which corresponds to such residential district, as follows.

District	Housing Type
R&E	Single-Family Residential
RS-1	Single-Family Residential
RS-2	Two-Family Residential
RM-1	Multifamily Residential
RM-2	Multifamily Residential

- H. *Yard Requirements along District Boundaries.* Whenever a block face is intersected by a district boundary, all lots fronting on that block face shall conform with the minimum front yard requirements of the most restrictive district found on that block face.
- I. *Yard Requirements for Accessory Structures.* See Sec. 402: Accessory Uses and Structures
- J. *Yard Determination by Planning Director.* Where a lot does not conform to typical lot and block configuration, the Planning Director shall determine which lot lines shall be considered front, side and rear lot lines. In making this determination, the Planning Director shall take into consideration the pattern of adjacent lots, as well as the frontage of lots across an intervening street. Building orientation or address shall not determine yard requirements.
- K. *Additional Standards for Front and Side Yards*
1. Where 35% or more of a block face between intersecting streets is developed with buildings which have observed, with a variation of five feet or less, a front yard greater or lesser than required by this Section, new buildings shall not be erected closer to the street right-of-way than the building line so established by those existing buildings. This regulation shall not be interpreted as requiring a minimum front yard of more than 50 feet.
 2. Where a building line is shown on a plat recorded with the Tom Green County Clerk, and such building line provides a front yard and/or side yard greater than required by this Section and is part of a comprehensive plan for orderly development of a subdivision with either a uniform or staggered building line, no building shall be located more than 5 feet closer to the street right-of-way than the building line established on the plat, as long as other minimum setback standards of this Section are met.
 3. For all uses in residential districts and for residential uses in any district, on a corner lot where another lot abutting the rear of that corner fronts onto a side street, there shall be a front yard required on all streetside boundaries of that corner lot. For the purpose of this subsection, any separation by an alley, utility-owned right-of-way, watercourse or other drainage feature with a minimum width of ten feet shall cause nearby lots to not be abutting.
- a. Street Frontage

i. Front yard determined by the developer is the standard front yard for the zoning district in which the lot is located in.

ii. Side yard adjacent to the second street will be a minimum of 10 feet.

iii. A variance can only be requested if more than 10 feet of Right-of-Way is present.

(Ordinance adopted 1-4-00; Ordinance adopted 4-18-06; Ordinance adopted 4-15-14; Ordinance adopted 5-2-17; Ordinance 2017-09-131, §§ 5, 6, adopted 9-5-17; Ord. No. 2020-091, § 1, 9-29-20)

ORDINANCE 2026

AN ORDINANCE OF THE CITY OF SAN ANGELO, TEXAS, AMENDING CHAPTER 12 "PLANNING AND DEVELOPMENT," EXHIBIT A "ZONING ORDINANCE," ARTICLE 3 "USE REGULATIONS," SECTION 314 "RESIDENTIAL STRUCTURE TYPES"; PROVIDING FOR SEVERABILITY; AND, PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, on the 19th day of May, 2026, the Planning Commission for the City of San Angelo and the City Council, after having given due and proper notice and held a joint public hearing, considered public comment, and considered recommendations from City staff, City Council desires to amend **Chapter 12 "Planning and Development," Exhibit A "Zoning Ordinance," Article 3 "Use Regulations"; Section 314 "Residential Structure Types"**.

NOW THEREFORE, BE IT ORDAINED BY THE CITY OF SAN ANGELO, TEXAS

Section 1. Chapter 12 "Planning and Development," Exhibit A "Zoning Ordinance," Article 3 "Use Regulations", Section 314 "Residential Structure Types" are hereby amended as set forth in Exhibit "A" attached hereto and incorporated herein for all purposes.

Section 2. The terms and provisions of this ordinance shall be deemed to be severable in that if any portion of this ordinance shall be declared to be invalid, the same shall not affect the validity of the other provisions of this ordinance.

Section 3. This Ordinance shall be effective on and after June 2, 2026.

INTRODUCED with public hearing the 19th day of May 2026, and finally PASSED this 2nd day of June 2026.

THE CITY OF SAN ANGELO, TEXAS:

Tom Thompson, Mayor

ATTEST:

Heather Stastny, City Clerk

APPROVED AS TO CONTENT:

Aaron Vannoy, Director of Planning
And Development Services

APPROVED AS TO FORM:

Brandon Dyson, City Attorney

Exhibit "A"

Sec. 314. Residential Structure Types

Household and Group Living uses must comply with the following table in regard to location of individual structure types. Residential Household and Group Living uses must comply with the following table in regard to location of individual structure types. Residential uses allowed in nonresidential districts may be housed in any type of residential structure except single-family detached and mobile and manufactured homes. All structure types are defined in Article 8, and additional standards are included in Section 501 for zero lot line dwellings, twinhomes and townhouses.

	Zoning District											
Structure Type	R&E	RS1	RS2	RS3	RS4	RS5*	RS6	RM1L	RM1	RM2	MHP	MHS
Single-Family Detached	A	A	A	-	A	A	-	A	-	-	-	A
Accessory Apartment	A	-	A	-	-	-	-	A	-	-	-	-
Two-Family Dwelling	-	-	A	-	-	A	-	A	-	-	-	-
Zero Lot Line Dwelling	-	-	-	A	-	A	-	A	-	-	-	-
Twinhome	-	-	A	A	-	A	-	A	-	-	-	-
Townhouse	-	-	-	A	-	A	-	A	-	-	-	-
Triplex/Quadrplex	-	-	-	-	-	-	A	-	-	-	-	-
Multifamily Dwelling	-	-	-	-	-	-	-	A	A	A	-	-
Manufactured Home	S***	S***	S***	-	-	-	-	-	-	-	A	A
Industrialized House	A	A	A	A	A	A	A	-	A	-	-	A
Group Living Structure**	-	-	-	-	-	-	-	A	A	A	-	-

Refer to Section 501 for additional standards.

Legend: A = Allowed; S = Special Use; "-" = Not Allowed

*RS-5 zoning district is only allowed within designated infill areas.

**Structure type allowed only with approved group living use.

*** Refer to Section 501.F and Article 12.03 for additional standards.

(Ordinance adopted 1-4-00; Ordinance 2017-09-131, § 4, adopted 9-5-17; Ord. No. 2019-121, § 2, 9-17-19)

Editor's note(s)—Former Sec. 311, see editor's note at Sec. 312.

ORDINANCE 2026

AN ORDINANCE OF THE CITY OF SAN ANGELO, TEXAS, AMENDING CHAPTER 12 "PLANNING AND DEVELOPMENT," EXHIBIT A "ZONING ORDINANCE," ARTICLE 3 "USE REGULATIONS," SECTION 303 "RESIDENTIAL DISTRICT INTENT STATEMENTS"; AND, PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, on the 19th day of May, 2026, the Planning Commission for the City of San Angelo and the City Council, after having given due and proper notice and held a joint public hearing, considered public comment, and considered recommendations from City staff, City Council desires to amend **Chapter 12 "Planning and Development," Exhibit A "Zoning Ordinance," Article 3 "Use Regulations," Section 303 "Residential District Intent Statements"**.

NOW THEREFORE, BE IT ORDAINED BY THE CITY OF SAN ANGELO, TEXAS

Section 1. Chapter 12 "Planning and Development," Exhibit A "Zoning Ordinance," Article 3 "Use Regulations," Section 303 "Residential District Intent Statements"; are hereby amended as set forth in Exhibit "A" attached hereto and incorporated herein for all purposes.

Section 2. The terms and provisions of this ordinance shall be deemed to be severable in that if any portion of this ordinance shall be declared to be invalid, the same shall not affect the validity of the other provisions of this ordinance.

Section 3. This Ordinance shall be effective on and after June 2, 2026.

INTRODUCED with public hearing the 19th day of May 2026, and finally PASSED this 2nd day of June 2026.

THE CITY OF SAN ANGELO, TEXAS:

Tom Thompson, Mayor

ATTEST:

Heather Stastny, City Clerk

APPROVED AS TO CONTENT:

Aaron Vannoy, Director of Planning
And Development Services

APPROVED AS TO FORM:

Brandon Dyson, City Attorney

Exhibit “A”

Sec. 303. Residential District Intent Statements

- A. *R&E (Ranch and Estate) District.* The Ranch and Estate District is intended to provide opportunities for development of low density, detached single-family residences on lots of at least one acre in a suburban or rural setting. This District is also intended to serve as a holding zone for vacant land areas annexed to the City.
- B. *RS-1 (Single-Family Residential) District.* The Single-Family Residential District is intended to provide opportunities for development of detached single-family residences at medium densities.
- C. *RS-2 (Two-Family Residential) District.* The Two-Family Residential District is intended to provide opportunities for development of detached single-family residences and two-family residences at medium densities.
- D. *RS-3 (Zero Lot Line, Twinhome and Townhome Residential) District.* The Zero Lot Line, Twinhome and Townhome District is intended to provide opportunities for medium density residential development using townhome, twinhome and zero lot line concepts to incorporate (1) more efficient use of land than typical single-family development, making needed housing more affordable; (2) design of dwellings that integrate and relate internal/external living areas resulting in more pleasant and enjoyable housing; and (3) placement of dwellings against the property line, permitting outdoor space to be grouped and utilized to its maximum benefit.
- E. *RS-4 (Small Lot Residential) District.* The Small Lot Residential District is intended to provide opportunities for development of detached single-family residences on smaller lots between 3,000 and 5,500 square feet.
- F. *RS-5 (Infill Residential) District.* The Infill Residential District is intended to provide opportunities for development of residences within the designated infill area of the city. With lot sizes between 2,500 and 6,000 square feet, and with several residential structure types allowed, RS-5 seeks to introduce flexibility to those looking to subdivide or build upon smaller vacant spaces within infill areas as to meet housing needs and promote affordability.
- G. *RS-6 (Three- and Four-Family Residential) District.* The Three- and Four-Family Residential District is intended to provide opportunities for development of detached three-family and four-family residences at medium to high densities.
- H. *RM-1 (Low-Rise Multifamily Residential) District.* The Low-Rise Multifamily Residential District is intended to provide opportunities for development of low-rise, two-story or walk-up apartments.
- I. *RM-1L (Low-Rise Multifamily Legacy Residential) District.* The Low-Rise Multifamily Legacy Residential District is intended to allow properties zoned RM-1 on or before June 2nd , 2026, to retain their development standards rather than those of the newly amended RM-1 district. In no case should a property be rezoned to the Low-Rise Multifamily Legacy District.

- J. *RM-2 (High-Rise Multifamily Residential) District.* The High-Rise Multifamily Residential District is intended to provide opportunities for development of high-rise apartments.
- K. *MHP (Manufactured Housing Park) District.* The Manufactured Housing Park District is intended to provide opportunities for development of land with improvements and utilities specifically for the accommodation of manufactured housing in projects under unified management and control. These parks may include other services and common facilities for use by the residents. Any MHP district may include more than one manufactured housing park as long as each park within the district is under unified management and control.
- L. *MHS (Manufactured Housing Subdivision) District.* The Manufactured Housing Subdivision District is intended to provide opportunities for development of land subdivided into two or more lots for the purpose of sale and occupancy with manufactured housing units.

Exhibit A

[illegible]

[illegible]

[illegible]

Office	activities in an office setting focusing on business, government, professional, medical or financial services	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	A	-	A	A	A	A	A	A
Parking, Commercial	parking not accessory to an allowed use, fees may be charged	-	-	-	-	-	-	-	-	-	-	-	-	-	C	A	A	A	A	A	A	A	A	A
Recreation and Entertainment, Outdoor	large commercial uses that provide continuous recreation or entertainment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S	-	S	-	S	S	S	A
Rental, Equipment	firms leasing or renting heavy vehicles, equipment and machinery under 3.5 tons to the public, may also provide product repair	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	A	C	C	A	A	A	-

Retail Sales and Service	firms involved in the sale or [of] new or used products to the public, may provide personal services, entertainment or product repair	*	-	-	-	-	-	-	-	-	-	-	-	-	-	A	C	A	C	A	-	C	C	A	A
Self-Service Storage	uses providing separate storage areas for individuals or businesses	*	-	-	-	-	-	-	-	C	C	C	-	-	C	C	A	A	A	A	A	A	A	A	C
Vehicle Repair	service to passenger vehicles, light or medium trucks, other consumer motor vehicles, generally, the customer does not wait at site while service is being performed	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	A	C	C	A	A	A	C

[illegible]

[illegible]

Wholesale Trade	firms involved in sale, lease, or rental of products for industrial, institutional, or commercial business	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	A	A	A	A	A	A	-
Other																								
Agriculture	raising or producing plants		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	C	-	-
Animal Kennel	facilities for overnight care of animals, except horses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	-	C	C	C	C	-
Entertainment Event, Major	activity or structure that draws large numbers of people to specific events		-	-	-	-	-	-	-	-	-	-	-	-	-	-	S	S	S	S	S	S	S	A
Firearms Range	indoor or outdoor facilities for discharging firearms	*	S	-	-	-	-	-	-	-	-	-	-	-	-	-	S	S	S	S	S	S	S	-
Horse Boarding and Riding Academy	overnight care of horses, with or without related equestrian facilities		S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	-	C	C	C	C	-

Mining	extraction of mineral or aggregate resources for off-site use		S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	C	-	-
Passenger Terminals	facilities for the arrival or departure of airplanes, trains or buses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	C	C	C	C	C	C	-
Plant Nursery	facilities producing flowers, shrubs, horticultural or household plants for retail or wholesale trade		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	A	A	A	A	-
Telecommunications Facilities	devices and supporting elements necessary to produce electromagnetic radiation operating to produce a signal	*	C	C	C	C	-	-	-	C	C	C	C	C	C	C	C	C	C	C	A	A	C	C

Any Use(s) Deemed Appropriate	only where such uses(s) can provide effective transition between less restrictive and more restrictive zoning districts	*	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Food and beverage processing; drug processing, tobacco manufacture ; building materials processing; light metal fabrication; jewelry fabrication; processing and fabrication of optical and scientific instruments; artificial limb fabrication; broom fabrication; manufacture of wearing apparel including boots and shoes; bags and mattress manufacture	certain light manufacturi ng uses not allowed in either CG or CH Districts, but which are allowed in CG/CH Districts and also where light manufacturi ng is generally allowed		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	A	-	

ORDINANCE 2026

AN ORDINANCE OF THE CITY OF SAN ANGELO, TEXAS, AMENDING CHAPTER 12 "PLANNING AND DEVELOPMENT," EXHIBIT A "ZONING ORDINANCE," ARTICLE 3 "USE REGULATIONS," SECTION 313 "USE TABLE"; PROVIDING FOR SEVERABILITY; AND, PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, on the 19th day of May, 2026, the Planning Commission for the City of San Angelo and the City Council, after having given due and proper notice and held a joint public hearing, considered public comment, and considered recommendations from City staff, City Council desires to amend **Chapter 12 "Planning and Development," Exhibit A "Zoning Ordinance," Article 3 "Use Regulations,"; Section 313 "Use Table"**.

NOW THEREFORE, BE IT ORDAINED BY THE CITY OF SAN ANGELO, TEXAS

Section 1. Chapter 12 "Planning and Development," Exhibit A "Zoning Ordinance," Article 3 "Use Regulations," Section 313 "Use Table" are hereby amended as set forth in Exhibit "A" attached hereto and incorporated herein for all purposes.

Section 2. The terms and provisions of this ordinance shall be deemed to be severable in that if any portion of this ordinance shall be declared to be invalid, the same shall not affect the validity of the other provisions of this ordinance.

Section 3. This Ordinance shall be effective on and after June 2, 2026.

INTRODUCED with public hearing the 19th day of May 2026, and finally **PASSED** this 2nd day of June 2026.

THE CITY OF SAN ANGELO, TEXAS:

Tom Thompson, Mayor

ATTEST:

Heather Stastny, City Clerk

APPROVED AS TO CONTENT:

Aaron Vannoy, Director of Planning
And Development Services

APPROVED AS TO FORM:

Brandon Dyson, City Attorney

Exhibit A

[illegible]

[illegible]

[illegible]

Office	activities in an office setting focusing on business, government, professional, medical or financial services	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	A	-	A	A	A	A	A	A
Parking, Commercial	parking not accessory to an allowed use, fees may be charged	-	-	-	-	-	-	-	-	-	-	-	-	-	C	A	A	A	A	A	A	A	A	A
Recreation and Entertainment, Outdoor	large commercial uses that provide continuous recreation or entertainment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	S	-	S	-	S	S	S	A
Rental, Equipment	firms leasing or renting heavy vehicles, equipment and machinery under 3.5 tons to the public, may also provide product repair	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	A	C	C	A	A	A	-

Retail Sales and Service	firms involved in the sale or [of] new or used products to the public, may provide personal services, entertainment or product repair	*	-	-	-	-	-	-	-	-	-	-	-	-	-	A	C	A	C	A	-	C	C	A	A
Self-Service Storage	uses providing separate storage areas for individuals or businesses	*	-	-	-	-	-	-	-	C	C	C	-	-	C	C	A	A	A	A	A	A	A	A	C
Vehicle Repair	service to passenger vehicles, light or medium trucks, other consumer motor vehicles, generally, the customer does not wait at site while service is being performed	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	A	C	C	A	A	A	C

[illegible]

[illegible]

Wholesale Trade	firms involved in sale, lease, or rental of products for industrial, institutional, or commercial business	*	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	A	A	A	A	A	A	-
Other																								
Agriculture	raising or producing plants		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	C	-	-
Animal Kennel	facilities for overnight care of animals, except horses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	-	C	C	C	C	-
Entertainment Event, Major	activity or structure that draws large numbers of people to specific events		-	-	-	-	-	-	-	-	-	-	-	-	-	-	S	S	S	S	S	S	S	A
Firearms Range	indoor or outdoor facilities for discharging firearms	*	S	-	-	-	-	-	-	-	-	-	-	-	-	-	S	S	S	S	S	S	S	-
Horse Boarding and Riding Academy	overnight care of horses, with or without related equestrian facilities		S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	-	C	C	C	C	-

Mining	extraction of mineral or aggregate resources for off-site use		S	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	C	-	-
Passenger Terminals	facilities for the arrival or departure of airplanes, trains or buses		-	-	-	-	-	-	-	-	-	-	-	-	-	-	C	C	C	C	C	C	C	-
Plant Nursery	facilities producing flowers, shrubs, horticultural or household plants for retail or wholesale trade		A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	A	A	A	A	-
Telecommunications Facilities	devices and supporting elements necessary to produce electromagnetic radiation operating to produce a signal	*	C	C	C	C	-	-	-	C	C	C	C	C	C	C	C	C	C	C	A	A	C	C

Any Use(s) Deemed Appropriate	only where such uses(s) can provide effective transition between less restrictive and more restrictive zoning districts	*	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
Food and beverage processing; drug processing, tobacco manufacture ; building materials processing; light metal fabrication; jewelry fabrication; processing and fabrication of optical and scientific instruments; artificial limb fabrication; broom fabrication; manufacture of wearing apparel including boots and shoes; bags and mattress manufacture	certain light manufacturi ng uses not allowed in either CG or CH Districts, but which are allowed in CG/CH Districts and also where light manufacturi ng is generally allowed		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	A	A	-	

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Aaron Vannoy, Director, Planning and Development Services

Meeting Date: June 2, 2026

Item type: Consent Item

Caption:

Second reading of the ordinances amending Chapter 12 "Planning and Development," Exhibit C "Land Development and Subdivision Ordinance," as follows:

1. Amending Chapter 10 "Construction Standards and Specifications," Section III "Widths and Graphic Specifications" to reduce required street widths; and
2. Amending Chapter 9 "Land Development and Subdivision Design Policies," Section V "Sidewalks," Subsection D "Where Sidewalks are Required" to change and specify where sidewalks are required (Austin Reed)

Staff Recommendation:

Adopt

Summary/History:

Funding Source(s):

Financial Impact:

Other Information/Recommendation:

Attachments:

- | | |
|---|---|
| 1. LDSO Ch 9 - Adopting Ordinance v3 | LDSO Ch 9 - Adopting Ordinance v3.docx |
| 2. LDSO Ch 10 - Adopting Ordinance v3 5-20-2026 | LDSO Ch 10 - Adopting Ordinance v3 5-20-2026.docx |
| 3. LDSO Redline 5-22 | LDSO Redline 5-22.docx |

Presentation:

Austin Reed

Approvals/Reviews:

Aaron Vannoy
Aaron Vannoy
Holly Crooks
Brandon Dyson
Heather Stastny

Created/Initiated
Approved
Approved
Approved
Final Approval

ORDINANCE 2026

**AN ORDINANCE OF THE CITY OF SAN ANGELO TEXAS, AMENDING CHAPTER 12
"PLANNING AND DEVELOPMENT," EXHIBIT C "LAND DEVELOPMENT AND SUBDIVISION
ORDINANCE" CHAPTER 9 "LAND DEVELOPMENT AND SUBDIVISION DESIGN POLICIES"
SECTION V "SIDEWALKS" SUBSECTION D. "WHERE SIDEWALKS ARE REQUIRED,"
PROVIDING FOR SEVERABILITY; AND, PROVIDING FOR AN EFFECTIVE DATE**

WHEREAS, on the 19th day of May, 2026, the Planning Commission for the City of San Angelo and the City Council after having held a joint public hearing, considered public comment, and considered recommendations from City staff, City Council desires to amend Chapter 12 "Planning and Development", Exhibit C "Land Development and Subdivision Ordinance", Chapter 9 "Land Development and Subdivision Design Policies", Section V "Sidewalks", Subsection D. "Where Sidewalks are Required".

NOW THEREFORE, BE IT ORDAINED BY THE CITY OF SAN ANGELO, TEXAS,

Section 1. Chapter 12 "Planning and Development", Exhibit C "Land Development and Subdivision Ordinance", Chapter 9 "Land Development and Subdivision Design Policies", Section V "Sidewalks", Subsection D. "Where Sidewalks are Required" is hereby amended and replaced in its entirety as set forth in "Exhibit A".

Section 2. The terms and provisions of this ordinance shall be deemed to be severable in that if any portion of this ordinance shall be declared to be invalid, the same shall not affect the validity of the other provisions of this ordinance.

Section 3. This Ordinance shall be effective on and after June 2nd, 2026.

INTRODUCED with public hearing the 19th day of May 2026 and finally PASSED this 2nd day of June 2026.

THE CITY OF SAN ANGELO, TEXAS:

Tom Thompson, Mayor

ATTEST:

Heather Stastny, City Clerk

APPROVED AS TO CONTENT:

APPROVED AS TO FORM:

Aaron Vannoy, Director of Planning
And Development Services

Brandon Dyson, City Attorney

Exhibit "A"

D. *Where Sidewalks are Required*

1. Sidewalks shall be required to be constructed with new development on both sides of major collector streets, arterial streets, and the external sides of the frontage roads of freeways. The property owner or developer is only responsible for the required sidewalk on the side of the street or streets adjacent to their property.
2. Sidewalks shall be required along block faces of local streets or minor collector streets in the following areas:
 - a. The Central Business District designated by the San Angelo Comprehensive Plan or the City's Zoning Ordinance.
 - b. Designated pedestrian routes in a corridor plan or Safe Routes to School Plan adopted by the City Council of the City of San Angelo.
 - c. Locations in which a property has a public sidewalk along at least 50% of the same block face within the same zoning district.
 - d. Locations extending from schools and parks along an abutting street to the next street intersection, up to, but not to exceed, a maximum of 300 feet measured as a direct path along abutting street right-of-way from the nearest point of the new development.
 - e. Street frontage abutting a property in the Multifamily (RM), Neighborhood Commercial (CN), Office Commercial (CO), General Commercial (CG), and General Commercial/Heavy Commercial (CG/CH) zoning districts.

ORDINANCE 2026

AN ORDINANCE OF THE CITY OF SAN ANGELO TEXAS, AMENDING CHAPTER 12 "PLANNING AND DEVELOPMENT," EXHIBIT C "LAND DEVELOPMENT AND SUBDIVISION ORDINANCE" CHAPTER 10 "CONSTRUCTION STANDARDS AND SPECIFICATIONS" SECTION III "WIDTHS AND GRAPHIC SPECIFICATIONS," PROVIDING FOR SEVERABILITY; AND, PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, on the 19th day of May, 2026, the Planning Commission for the City of San Angelo and the City Council after having held a joint public hearing, considered public comment, and considered recommendations from City staff, City Council desires to amend Chapter 12 "Planning and Development", Exhibit C "Land Development and Subdivision Ordinance", Chapter 10 "Construction Standards and Specifications", Section III "Widths and Graphic Specifications."

NOW THEREFORE, BE IT ORDAINED BY THE CITY OF SAN ANGELO, TEXAS,

Section 1. CHAPTER 12 "PLANNING AND DEVELOPMENT", Exhibit C "Land Development and Subdivision Ordinance" Chapter 10 "Construction Standards and Specifications" Section III "Widths and Graphic Specifications," is hereby amended and replaced in its entirety as set forth in "Exhibit A".

Section 2. The terms and provisions of this ordinance shall be deemed to be severable in that if any portion of this ordinance shall be declared to be invalid, the same shall not affect the validity of the other provisions of this ordinance.

Section 3. This Ordinance shall be effective on and after June 2nd, 2026.

INTRODUCED with public hearing the 19th day of May 2026 and finally PASSED this 2nd day of June 2026.

THE CITY OF SAN ANGELO, TEXAS:

Tom Thompson, Mayor

ATTEST:

Heather Stastny, City Clerk

APPROVED AS TO CONTENT:

Aaron Vannoy, Director of Planning
And Development Services

APPROVED AS TO FORM:

Brandon Dyson, City Attorney

Exhibit "A"

A. *Widths.*

1. *Right-of-Way Widths.* The minimum design standard for right-of-way width shall be as follows:

	New Street Width	Existing Street Width
Local Street	50 feet	40 feet (or pavement width plus 10 feet, whichever is greater)
Minor Collector Street	60 feet	52 feet
Major Collector Street	70 feet	56 feet
Minor Arterial Street	80 feet	68 feet
Major Arterial Street	90 feet	76 feet
Alley, Residential	20 feet	20 feet
Alley, Commercial	24 feet	20 feet
Cul-de-Sac	100-foot diameter minimum	

2. *Paving Widths.* The minimum design standard for paving widths shall be as follows:

	New Street Width	Existing Street Width
Local Street	36 feet	26 feet
Minor Collector Street	40 feet	36 feet
Major Collector Street	48 feet	36 feet
Minor Arterial Street	56 feet	48 feet
Major Arterial Street	62 feet	56 feet
Alley	20 feet	20 feet
Cul-de-Sac	96 feet diameter	96 feet diameter

3. *Arterial and Collector Streets.* When extra width is required by the City, the City will pay for the two inches of hot mix, ten inches of crushed limestone base and 0.25 gallons per square yard of asphalt prime in the center portion of the street for that width of street pavement over fifty feet (50') in width.
 4. *Rural Subdivisions.* Curb and gutter construction is not required in a rural subdivision. However, alternative curbing may be required by the City Engineer.
- B. *Construction Standards and Specifications.* The Public Works Director shall hereby be authorized to promulgate appropriate methods, materials and specifications (including graphic specifications) for improving public streets, alleys and drainage facilities within the City of San Angelo and its extraterritorial jurisdiction.
1. Said methods, materials and specifications shall be in furtherance of (and shall not conflict with) the requirements and policies expressed in this subdivision ordinance or any other applicable ordinance of the City of San Angelo, Texas.
 2. Said methods, materials and specifications may include consideration of particular physiographic conditions which may vary from one specific location to another, within the City limits of San Angelo and its extraterritorial jurisdiction.

3. Said methods, materials and specifications (as promulgated by the Public Works Director) shall become effective upon ratification by the governing body for the City of San Angelo, with an appropriate resolution therefor.
 4. Upon effectuation by resolution of the governing body, said methods, materials and specifications shall be applicable only to construction and/or improvement of facilities installed and/or required in conjunction with (re)subdivisions shown on final (re)plats approved after the effective date of such resolution by the governing body.
 5. Said methods, materials and specifications shall be reviewed and, if necessary, revised by the governing body for the City of San Angelo, on an annual basis. As a prelude to such review by the governing body, the Public Works Director shall solicit advice from an ad hoc review committee of civil engineers, some of whom work in the private sector and others of whom work in the public sector.
 - a. Any updates or revisions to the compilation of methods, materials and specifications (as recommended by the ad hoc review committee) shall be presented for ratification by the governing body, with an appropriate resolution therefor.
 - b. In years when no updates or revisions are recommended by the ad hoc review committee, the existing compilation of methods, materials and specifications (for public works improvements) shall be presented for ratification by the governing body, with an appropriate resolution therefor.
- C. *Administrative Exceptions to Street Standards.* Upon agreement of both the Planning Director and City Engineer, street right-of-way width and pavement standards may be reduced based on the following criteria and standards. If not approved administratively, any such request may proceed to the Planning Commission as a plat variance request.
1. *Criteria.* Exceptions to street standards are intended for the following purposes and circumstances and are not intended as a general alternative to the variance process.
 - a. Re-subdivisions where lots in a pre-existing subdivision are re-subdivided to re-orient existing lots.
 - b. New subdivisions within areas that have been identified by City plans or policies as "infill" areas.
 - c. Pre-existing subdivisions where streets were never constructed and no current obligation exists for such construction.
 - d. Small-scale residential development, including single-family, two-family, and up to 8-unit apartment buildings. Generally not intended for larger scale development such as apartment complexes and non-residential development.
 - e. Situations where the City has constructed or reconstructed a street to a lesser standard with no intention of future widening.
 - f. Notwithstanding the above, such exceptions may be considered on a case-by-case basis anywhere within the City but are intended for unique circumstances based on existing development patterns and not simply as a shortcut to the normal variance process.
 2. *Standards and limitations.*

- a. An existing street may be approved to remain at its current width, or a width less than the full standard width required.
- b. If a street does not exist, a street at a lesser width than the full standard width may be approved based on the predominant existing street construction on adjacent and nearby blocks, with particular acknowledgement of any street that is a continuation of the subject street.
- c. Curb and gutter may be waived or a header curb may be required in lieu of a standard curb and gutter based on the predominant existing street construction on adjacent and nearby blocks, as well as drainage and pavement management considerations.
- d. In no case shall a street be approved with less than 26 feet of pavement width except within the City's designated infill area where the minimum requirement is 20 feet.

SECTION III: WIDTHS AND GRAPHIC SPECIFICATIONS

The following minimum widths and specifications may be increased or modified where necessary for proper drainage, traffic flow and/or pedestrian movement, or to ensure a consistent street alignment with a minimum of undesirable curvature.

A. Widths.

1. *Right-of-Way Widths.* The minimum design standard for right-of-way width shall be as follows:

	<u>Standard Width-New Street Width</u>	<u>Minimum Width-Existing Street Width</u>
Local Rural Street	60 feet	40 feet (or pavement width plus 10 feet, whichever is greater)
Local Street	50 feet	40 feet (or pavement width plus 10 feet, whichever is greater)
Minor Collector Street	60 feet	52 feet
Major Collector Street	70 feet	56 feet
Minor Arterial Street	80 feet	68 feet
Major Arterial Street	90 feet	76 feet
Alley, Residential	20 feet	20 feet
Alley, Commercial	24 feet	20 feet
Cul-de-Sac	100-foot diameter minimum	

2. *Paving Widths.* The minimum design standard for paving widths shall be as follows:

	<u>Standard Width-New Street Width</u>	<u>Minimum Width-Existing Street Width</u>
Local Street	40 feet or 36 feet with a sidewalk meeting City sidewalk requirements on at least one side of the street	26 feet
Minor Collector Street	48 feet or 40 feet with a sidewalk meeting City sidewalk requirements on at least one side of the street	36 feet
Major Collector Street	48 feet	36 feet
Minor Arterial Street	56 feet	48 feet
Major Arterial Street	62 feet	56 feet
Alley	20 feet	20 feet
Cul-de-Sac	96 feet diameter	96 feet diameter

3. *Arterial and Collector Streets.* When extra width is required by the City, the City will pay for the two inches of hot mix, ten inches of crushed limestone base and 0.25 gallons per square yard of asphalt prime in the center portion of the street for that width of street pavement over fifty feet (50') in width.
4. *Rural Subdivisions.* Curb and gutter construction is not required in a rural subdivision. However, alternative curbing may be required by the City Engineer.

~~5. — *Standard and Minimum widths.* In the tables above, "standard width" means the width generally required for street construction and "minimum width" is a reduced width that may be allowed to accommodate pre-existing situations in developed areas where it is impractical to require the standard width.~~

- B. *Construction Standards and Specifications.* The Public Works Director shall hereby be authorized to promulgate appropriate methods, materials and specifications (including graphic specifications) for improving public streets, alleys and drainage facilities within the City of San Angelo and its extraterritorial jurisdiction.
1. Said methods, materials and specifications shall be in furtherance of (and shall not conflict with) the requirements and policies expressed in this subdivision ordinance or any other applicable ordinance of the City of San Angelo, Texas.
 2. Said methods, materials and specifications may include consideration of particular physiographic conditions which may vary from one specific location to another, within the City limits of San Angelo and its extraterritorial jurisdiction.
 3. Said methods, materials and specifications (as promulgated by the Public Works Director) shall become effective upon ratification by the governing body for the City of San Angelo, with an appropriate resolution therefor.
 4. Upon effectuation by resolution of the governing body, said methods, materials and specifications shall be applicable only to construction and/or improvement of facilities installed and/or required in conjunction with (re)subdivisions shown on final (re)plats approved after the effective date of such resolution by the governing body.
 5. Said methods, materials and specifications shall be reviewed and, if necessary, revised by the governing body for the City of San Angelo, on an annual basis. As a prelude to such review by the governing body, the Public Works Director shall solicit advice from an ad hoc review committee of civil engineers, some of whom work in the private sector and others of whom work in the public sector.
 - a. Any updates or revisions to the compilation of methods, materials and specifications (as recommended by the ad hoc review committee) shall be presented for ratification by the governing body, with an appropriate resolution therefor.
 - b. In years when no updates or revisions are recommended by the ad hoc review committee, the existing compilation of methods, materials and specifications (for public works improvements) shall be presented for ratification by the governing body, with an appropriate resolution therefor.
- C. *Administrative Exceptions to Street Standards.* Upon agreement of both the Planning Director and City Engineer, street right-of-way width and pavement standards may be reduced based on the following criteria and standards. If not approved administratively, any such request may proceed to the Planning Commission as a plat variance request.
1. *Criteria.* Exceptions to street standards are intended for the following purposes and circumstances and are not intended as a general alternative to the variance process.
 - a. Re-subdivisions where lots in a pre-existing subdivision are re-subdivided to re-orient existing lots.
 - b. New subdivisions within areas that have been identified by City plans or policies as "infill" areas.
 - c. Pre-existing subdivisions where streets were never constructed and no current obligation exists for such construction.

-
- d. Small-scale residential development, including single-family, two-family, and up to 8-unit apartment buildings. Generally not intended for larger scale development such as apartment complexes and non-residential development.
 - e. Situations where the City has constructed or reconstructed a street to a lesser standard with no intention of future widening.
 - f. Notwithstanding the above, such exceptions may be considered on a case-by-case basis anywhere within the City but are intended for unique circumstances based on existing development patterns and not simply as a shortcut to the normal variance process.
2. *Standards and limitations.*
- a. An existing street may be approved to remain at its current width, or a width less than the full standard width required.
 - b. If a street does not exist, a street at a lesser width than the full standard width may be approved based on the predominant existing street construction on adjacent and nearby blocks, with particular acknowledgement of any street that is a continuation of the subject street.
 - c. Curb and gutter may be waived or a header curb may be required in lieu of a standard curb and gutter based on the predominant existing street construction on adjacent and nearby blocks, as well as drainage and pavement management considerations.
 - d. In no case shall a street be approved with less than 26 feet of pavement width.

(Ordinance adopted 2-7-06, § 3; subsection B. added by Ordinance adopted 4-18-06, § 2; Ord. No. 2019-150, § 4, 11-19-19; Ord. No. 2022-021, § 1, 3-15-22)

SECTION V: SIDEWALKS

A. *Purpose*

1. The purpose of these sidewalk standards is to promote the health, safety, and welfare of residents, property owners, and visitors to the City of San Angelo and to implement the vision and strategies of the San Angelo Comprehensive Plan.
2. These standards will:
 - a. Improve the safety of walking by providing separation from motorized transportation and improving travel surfaces for pedestrians.
 - b. Improve public welfare by providing an alternate means of access to transportation and social interaction, especially for children, other citizens without personal vehicles, or those with disabilities.
 - c. Facilitate walking as a means of physical activity recognized as an important provider of health benefits.
 - d. Establish minimum criteria for the development of sidewalks as a part of the pedestrian element of the transportation system within the City and the area within the extraterritorial jurisdiction (ETJ) in which the City reviews subdivisions per agreement with the County.

B. *Policy Statements*

1. Where this document is silent, the design of pedestrian facilities shall follow standards applicable under State and Federal laws and regulations, including but not limited to Texas Accessibility Standards (Texas Department of Licensing and Regulation) and Public Right-of-Way Accessibility Guidelines (US Access Board), as amended.
2. Public sidewalks in the public right-of-way or public access easement must comply with the City's Standard Specifications and Details for Construction, as promulgated by the City Engineer.
3. These requirements are intended to apply within the City and the area within the extraterritorial jurisdiction (ETJ) in which the City reviews subdivisions per agreement with the County.
4. These requirements are intended to apply to both public and private streets.
5. These requirements do not apply to residential infill developments located within the City of San Angelo where there are existing streets adjacent to the property except when meeting criteria in Section D.2.

C. *General Requirements*

1. Except for permitted waivers and deviations as provided under Part F of this Section V, sidewalks, where required by this ordinance, shall have a minimum clear path width of four feet on local and minor collector streets in districts zoned for primarily single-family residential purposes and a minimum clear path width of five feet in all other zoning districts.
2. The timing of sidewalk construction shall be as required by this Ordinance, or as approved by the Planning Commission.
3. Except for permitted waivers and deviations as provided under Part F of this Section V, at any time an existing sidewalk is removed from a location that would be required to have a sidewalk per this ordinance, the property owner shall contemporaneously construct a new sidewalk to standards required under this ordinance, unless such removal is authorized in writing by both the City Engineer and Planning Director.

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4. Except as otherwise provided under this Section V or adopted City policy, the property owners shall be responsible for maintenance of the sidewalks within the parkway adjacent to their property, or within a public sidewalk easement on their property, in a safe, functional condition consistent with applicable sidewalk design standards, unless such maintenance is explicitly performed by another entity, such as on roadways maintained by the Texas Department of Transportation.
 5. Internal pedestrian circulation shall be provided by sidewalk(s) or other like improvement in any development serving commercial, retail, office, service or similar use and at any publicly accessible governmental facility, school, church, or other place of public assembly. Sidewalks, or other accessible pedestrian routes, shall be designed and installed to connect buildings to one another and to handicap-accessible parking spaces, and to connect the development to the public street system. All such sidewalks or routes serving commercial, retail, office, service or similar use and at any publicly accessible governmental facility, school, church, or other place of public assembly shall be protected from encroachment by parked vehicles so that a minimum clear path width of four feet is maintained.
 6. Where it is not possible, or not desirable, to locate a public sidewalk within the public right-of-way, the sidewalk may be placed within a public access easement.
 7. The clear path of a required sidewalk shall be separated from the back of curb or edge of pavement by a minimum of 5 feet along arterial and major collector streets.
 8. Sidewalks may be adjacent to the back of curb on local and minor collector streets if 5 feet in width or may be 4 feet in width if separated 3 feet from back of curb.
 9. Sidewalks are not required for a property with RS zoning, except when meeting criteria in Section D.2.
 10. Sidewalks existing as of January 1, 2022 with a clear path width of at least 3 feet will satisfy sidewalk requirements regardless of placement within the external right-of-way until redevelopment, replacement or reconstruction at which time the sidewalks should be brought into full compliance.

D. *Where Sidewalks are Required*

1. Sidewalks shall be required to be constructed with new development on both sides of major collector streets, arterial streets, and the external sides of the frontage roads of freeways. The property owner or developer is only responsible for the required sidewalk on the side of the street or streets adjacent to their property.
2. Sidewalks shall be required along block faces of local streets or minor collector streets in the following areas:
 - a. The Central Business District designated by the San Angelo Comprehensive Plan or the City's Zoning Ordinance.
 - b. Designated pedestrian routes in a corridor plan or Safe Routes to School Plan adopted by the City Council of the City of San Angelo.
 - c. Locations in which a property has a public sidewalk along at least 50% of the same block face within the same zoning district.
 - d. Locations extending from ~~commercial developments~~, schools, and parks, ~~and churches~~ along abutting street to the next street intersection, up to but not to exceed a maximum of 300 feet measured as a direct path along abutting street right-of-way from the nearest point of the new development.
 - e. Street frontage abutting a property in the Multifamily (RM), Neighborhood Commercial (CN), Office Commercial (CO), General Commercial (CG), and General Commercial/Heavy Commercial (CG/CH) zoning districts.

E. *When Sidewalks are Required*

1. Sidewalks shall be constructed concurrently at the time of road construction on streets where the street abuts non-development areas such as common areas, drainage features, utility rights-of-way, or publicly owned areas. Otherwise, sidewalks may be deferred by the Planning Commission, the City Council, a Performance Agreement, or a Developer's Agreement, to until such time improvements are constructed on the property.
2. No site plan may be approved for development on any property unless provisions for sidewalks are included on the site plan where required by this ordinance.
3. A certificate of occupancy may not be issued until sidewalks where required by this ordinance are installed or brought up to applicable standards, except per an approved deferral guaranteed by a performance agreement or financial guarantee.

F. *Waivers & Deviations*

1. A complete waiver of the requirement for sidewalks should be allowed only where there are unusual factors or circumstances. The waiver must be defined in writing, include data supporting the basis for granting the waiver, and be approved by both the Planning Director and the City Engineer. Unusual factors or circumstances may include:
 - a. projects where the cost of establishing sidewalks or walkways would be unreasonably disproportionate to the cost of the associated roadway construction or overall project costs (however a partial waiver may be granted in lieu of a full waiver to reduce the cost of required sidewalks such that the costs will not be unreasonably disproportionate);
 - b. areas with topography or other natural constraints that make proper implementation of this ordinance impractical;
 - c. situations inherently adverse to pedestrian traffic, such as substantial truck traffic or other circumstances that present health and safety concerns, more prone in agricultural, heavy commercial, and industrial developments; or
 - d. other factors or circumstances constituting reasonably justifiable good cause to support such waiver.
2. Deviations from the requirements of this Section V or from the city's Sidewalk Design Standards may be allowed when necessary due to the physical circumstance of the street, or when necessary to accomplish adopted development goals of the City, or in situations where an applicant can show other factors or circumstances amounting to reasonably justifiable good cause to support such a deviation.
 - a. The specific nature and justification for permitting a deviation must be described in writing, include data supporting the basis for granting the described deviation, and approved by both the Planning Director and the City Engineer.
 - b. Deviations should be minimal and consist primarily of changes to required width of clear path or alignment within the right-of-way.
 - c. Deviations shall not allow a minimum clear path width of less than 3 feet.
3. A denial in whole or part of a request for a waiver or deviation of these requirements may be appealed to the Planning Commission.
 - a. A written appeal must be filed with the Planning Director within 30 days of service upon the property owner or developer of a written notice of the denial of the requested waiver or deviation.

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- b. The written notice of appeal must provide justification for the requested waiver or deviations based on the criteria described in F.1. and F.2. above. The Commission shall make findings based on these criteria. The Commission may sustain the denial or grant the application for waiver or deviation in whole or in part.
 - 4. The applicant or Planning Director may appeal the decision of the Planning Commission to the City Council.
 - a. A written appeal must be filed with the Planning and Development Services Department within 30 days of service of the Planning Commission decision on the property owner or developer.
 - b. The appeal must provide justification based on the criteria described in F.1. and F.2. of this Section V. The Council may sustain the decision of the Planning Commission or deny or grant the application for waiver or deviation in whole or in part. The Council shall make findings based on criteria described in F.1. and F.2. of this Section V.

(1959 Code, title 9, ch. 4, ex. A; Ord. No. 2022-020, § 1, 3-15-22)

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Aaron Vannoy, Director, Planning and Development Services

Meeting Date: June 2, 2026

Item type: Consent Item

Caption:

Second reading of the ordinances amending Chapter 12 "Planning and Development", Exhibit A "Zoning Ordinance" regarding Mobile Food Units as follows:

1. Amending Article 4 "Specific Use Standards", Section 419 "Mobile Food Units";
2. Amending Article 3 "Use Regulations", Section 313 "Use Table";
3. Amending Article 2 "Development Review", Section 211 "Historic District Overlay Zone"; and
4. Amending Article 2 "Development Review", Section 212 "River Corridor District Overlay Zone, Downtown District Overlay Zone, and Cultural District Overlay Zone" (Aaron Vannoy)

Staff Recommendation:

Adopt

Summary/History:

These items are a result of many months of meetings with local mobile food vendors and citizens around the community. We are working to be in line with recent state legislation where local jurisdictions no longer conduct the Health permit side of mobile food units and how that impacts the zoning ordinance. We are also addressing some locations in which mobile food units want to serve, particularly in residential areas up to 3 times per year and in local parks with the Park Director's approval. The distance for separation in the ROW for Mobile Food Units from an permanent food establishment is proposed to maintain the 100' distance.

We are removing the requirement for temporary mobile units (3 days or less) to have Design and Historic Review Commission permission in the design districts, unless they are modifying a permanent structure.

Funding Source(s):

Financial Impact:

Other Information/Recommendation:

Attachments:

1. Sec 211 Adopting ordinance

Sec 211 Adopting ordinance .docx

- | | | |
|----|--|--|
| 2. | Sec 212 Adoptinig ordinance | Sec 212 Adoptinig ordinance .docx |
| 3. | Section 419 Adopting ordinance 5-20-26_updt | Section 419 Adopting ordinance 5-20-26_updt.docx |
| 4. | Adopting ordinance Sec 313 Use table -Final updt | Adopting ordinance Sec 313 Use table -Final updt.pdf |

Presentation:

Aaron Vannoy

Approvals/Reviews:

Aaron Vannoy	Created/Initiated
Aaron Vannoy	Approved
Holly Crooks	Approved
Brandon Dyson	Approved
Heather Stastny	Final Approval

ORDINANCE 2026

AN ORDINANCE OF THE CITY OF SAN ANGELO TEXAS, AMENDING CHAPTER 12 "PLANNING AND DEVELOPMENT," EXHIBIT A "ZONING ORDINANCE", ARTICLE 2 "DEVELOPMENT REVIEW", SECTION 211 "HISTORIC OVERLAY ZONE", PROVIDING FOR SEVERABILITY; AND, PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, on the 19th day of May 2026, the Planning Commission for the City of San Angelo and the City Council after having given due and proper notice and held a joint public hearing, considered public comment, and considered recommendations from City staff, City Council desires to amend Chapter 12 "Planning and Development," Exhibit A "Zoning Ordinance", Article 2 "Development Review", Section 211 "Historic Overlay Zone".

NOW THEREFORE, BE IT ORDAINED BY THE CITY OF SAN ANGELO, TEXAS

Section 1. CHAPTER 12 "PLANNING AND DEVELOPMENT," Exhibit A "Zoning Ordinance", Article 2 "Development Review", Section 211 "Historic Overlay Zone" is hereby amended as set forth in Exhibit "A" attached hereto and incorporated herein for all purposes.

Section 2. The terms and provisions of this ordinance shall be deemed to be severable in that if any portion of this ordinance shall be declared to be invalid, the same shall not affect the validity of the other provisions of this ordinance.

Section 3. This Ordinance shall be effective on, from and after June 2, 2026.

INTRODUCED with public hearing the 19th day of May 2026, and finally PASSED this 2nd day of June, 2026.

THE CITY OF SAN ANGELO, TEXAS:

Tom Thompson, Mayor

ATTEST:

Heather Stastny, City Clerk

APPROVED AS TO CONTENT:

Aaron Vannoy, Director of Planning
and Development Services

APPROVED AS TO FORM:

Brandon Dyson, City Attorney

Exhibit "A"

Sec 211 G.

G. *Review by Planning Director.* The Planning Director, or designee, may:

1. Review and approve, conditionally approve, or disapprove applications for the following:

- a. Like-for-like replacement, using the same material and design as the original and does not require structural modifications;
- b. Signage:
 - i. All signs under 50 square feet;
 - ii. Replacement of an existing sign that is substantially similar.
- c. Fences or walls that do not include any signage or message, nor contain any graphics, video, or television display;
- d. Landscaping associated with a private park, or within a public street right-of-way;
- e. Exterior painting or repainting of any part of a structure;
- f. All telecommunication towers and related facilities less than or equal to 35 feet in height;
- g. Any construction not visible from a public street right-of-way;
- h. Construction which is required by law, for the purpose of safety and access, including parking areas, driveways, sidewalks and walkways;
- i. Temporary structures and/or signs that will be in place no longer than thirty consecutive days;
- j. A food truck at a permanent location with an associated structure on the lot with no new or renovated external construction.

ORDINANCE 2026

AN ORDINANCE OF THE CITY OF SAN ANGELO TEXAS, AMENDING CHAPTER 12 "PLANNING AND DEVELOPMENT," EXHIBIT A "ZONING ORDINANCE", ARTICLE 2 "DEVELOPMENT REVIEW", SECTION 212 "RIVER COORIDOR DISTRICT OVERLAY ZONE, DOWNTOWN OVERLAY ZONE, AND CULTURAL DISTRICT OVERLAY ZONE", PROVIDING FOR SEVERABILITY; AND, PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, on the 19th day of May, 2026, the Planning Commission for the City of San Angelo and the City Council after having given due and proper notice and held a joint public hearing, considered public comment, and considered recommendations from City staff, City Council desires to amend Chapter 12 "Planning and Development," Exhibit A "Zoning Ordinance", Article 2 "Development Review", Section 212 "River Corridor District Overlay Zone, Downtown Overlay Zone, and Cultural District Overlay Zone".

NOW THEREFORE, BE IT ORDAINED BY THE CITY OF SAN ANGELO, TEXAS

Section 1. CHAPTER 12 "PLANNING AND DEVELOPMENT," Exhibit A "Zoning Ordinance", Article 2 "Development Review", Section 212 "River Corridor District Overlay Zone, Downtown Overlay Zone, and Cultural District Overlay Zone" is hereby amended as set forth in Exhibit "A" attached hereto and incorporated herein for all purposes.

Section 2. The terms and provisions of this ordinance shall be deemed to be severable in that if any portion of this ordinance shall be declared to be invalid, the same shall not affect the validity of the other provisions of this ordinance.

Section 3. This Ordinance shall be effective on, from and after June 2, 2026.

INTRODUCED with public hearing the 19th day of May 2026, and finally PASSED this 2nd day of June, 2026.

THE CITY OF SAN ANGELO, TEXAS:

Tom Thompson, Mayor

ATTEST:

Heather Stastny, City Clerk

APPROVED AS TO CONTENT:

Aaron Vannoy, Director of Planning
and Development Services

APPROVED AS TO FORM:

Brandon Dyson, City Attorney

Exhibit "A"

Sec 212 C.

C. *Review by Planning Director.* The Planning Director, or designee, may:

1. Review and approve, conditionally approve or disapprove applications for the following work:

- a. Signage:
 - i. All signs under 50 square feet;
 - ii. Replacement of an existing sign that is substantially similar.
- b. Fences or walls that do not include any signage or message, nor contain any graphics, video, or television display;
- c. Landscaping associated with a private park, or within a public street right-of-way;
- d. Exterior painting or repainting of any part of a structure;
- e. All telecommunication towers and related facilities less than or equal to 35 feet in height;
- f. Any construction not visible from a public street right-of-way;
- g. Construction which is required by law, for the purpose of safety and access;
- h. Temporary structures and/or signs that will be in place no longer than thirty consecutive days;
- i. A food truck-at a permanent location with an associated structure on the lot with no new or renovated external construction

ORDINANCE 2026

**AN ORDINANCE OF THE CITY OF SAN ANGELO TEXAS, AMENDING CHAPTER 12
"PLANNING AND DEVELOPMENT," EXHIBIT A "ZONING ORDINANCE" ARTICLE 4
"SPECIFIC USE STANDARDS" SECTION 419 "MOBILE FOOD UNITS", PROVIDING FOR
SEVERABILITY; AND, PROVIDING FOR AN EFFECTIVE DATE**

WHEREAS, on the 19th day of May, 2026, the Planning Commission for the City of San Angelo and the City Council after having given due and proper notice and held a joint public hearing, considered public comment, and considered recommendations from City staff, City Council desires to amend Chapter 12 "Planning and Development," Exhibit A "Zoning Ordinance", Article 4 "Specific Use Standards", Section 419 "Mobile Food Units".

NOW THEREFORE, BE IT ORDAINED BY THE CITY OF SAN ANGELO, TEXAS

Section 1. CHAPTER 12 "PLANNING AND DEVELOPMENT," Exhibit A "Zoning Ordinance", Article 4 "Specific Use Standards", Section 419 "Mobile Food Units" is hereby amended as set forth in Exhibit "A" attached hereto and incorporated herein for all purposes.

Section 2. The terms and provisions of this ordinance shall be deemed to be severable in that if any portion of this ordinance shall be declared to be invalid, the same shall not affect the validity of the other provisions of this ordinance.

Section 3. This Ordinance shall be effective on, from and after June 2, 2026.

INTRODUCED with public hearing the 19th day of May 2026, and finally PASSED this 2nd day of June, 2026.

THE CITY OF SAN ANGELO, TEXAS:

Tom Thompson, Mayor

ATTEST:

Heather Stastny, City Clerk

APPROVED AS TO CONTENT:

Aaron Vannoy, Director of Planning
and Development Services

APPROVED AS TO FORM:

Brandon Dyson, City Attorney

Exhibit "A"

Sec. 419. Mobile Food Units

A. Purpose

1. To establish the requirements for Mobile Food Units in order to:
 - a. Maintain and improve property values by ensuring a minimum level of development quality relating to mobile food units.
 - b. Provide direction to business owners that have the opportunity to increase jobs and business.
 - c. Offer opportunities for new and existing food establishments to provide food choices where full restaurants may not be possible.
 - d. Adapt to an evolving economy and support local entrepreneurship.

B. Applicability

1. The provisions of this section shall apply to the operation of mobile food units within the city limits.
2. No new food service permits for a mobile food unit may be operated within the city limits unless the applicable provisions of this section are met.
3. No Certificate of Occupancy shall be issued for any property unless the applicable provisions of this section are met.
4. Reoccupying a structure that has been vacant for more than two years requires compliance with applicable provisions of this section.
5. The Provisions of this section shall not apply to private catering activities which are not open to the public.

C. General Requirements - Mobile Food Units

1. Mobile food units are permitted to conduct business in all commercial and manufacturing zoning districts, the Central Business District and Office-Warehouse zoning districts and where Industrial uses are permitted.
2. Mobile food units may operate on residentially zoned properties that have approved conditional/special uses for non-residential uses specific to mobile food units.
3. Mobile food units may operate up to six hours in a 24 hour period in residentially zoned areas and on non-residential use properties that do not have an approved conditional/special use
 - a. no more than 3 times per year;
 - b unless approved by City Council via special permit.
4. Mobile food units may operate up to six hours in a 24 hour period within a multi-family residentially zoned property with the property manager's written

permission as to location and times of operation. A copy of the written permission shall be kept within the mobile food unit at all times.

5. A mobile food unit shall not locate on any private or public property other than as legally permitted in parks or within street right-of-way, without written permission of the property owner to do so. A copy of the owner's written permission to operate in a specific location shall be kept within the mobile food unit at all times.
6. Mobile Food Units are allowed in Parks with proper notification of the Parks Division and setup in a place designated by the Parks Director or Designee or parked legally in a public parking space
7. A mobile food unit located on private property, except for a commissary location, shall require a minimum of an improved all-weather parking surface.
8. A mobile food unit shall not occupy one location within the public right-of-way for more than 12 hours, or as limited by current parking regulations including downtown, except with an approved special event or street closure permit.
9. Mobile food units shall only be allowed to park in compliance with current parking regulations.
10. A mobile food unit shall not locate in such a manner or location that obstructs, or can reasonably be expected to result in the obstruction of, any sidewalk, street, alley or other public place by causing people or vehicles to congregate at or about the mobile food unit, unless in accordance with an approved special event or street closure permit.
11. A mobile food unit shall not block any fire lane, drive aisle, or access to any parcel or alley.
12. No mobile food unit shall locate in such a manner as to restrict or obstruct line of sight visibility at or near an intersection of a driveway, approach or alleyway with a street, or at or near a street intersection within an adequate line of sight visibility.
13. Each mobile food unit operator shall be responsible for proper disposal of solid waste associated with the business.
14. Mobile food units shall not operate in residential zone areas or parks between the hours of 10:30 p.m. and 7:00 a.m.
15. A mobile food unit shall not operate in the public right-of-way within 100 feet of a public entrance of a permanent food service establishment when open for business. This buffer may be reduced upon written consent from the owner of that food service establishment agreeing to location and times of operation of the mobile food unit. A copy of the written agreement shall be kept within the mobile food unit at all times. Distance is measuring property line to mobile unit placement.

D. *Mobile Food Unit at Commissary*

1. A mobile food unit operating from its commissary shall be parked on a paved surface.
2. A mobile food unit operating from its commissary must comply with all setback lines established by the subject property's zoning district.

E. *Commissary Requirements*

1. A commissary is only allowed in a zoning district that allows retail sales and service, either by right or with an approved conditional or special use for retail sales and service.
2. Mobile food unit commissaries shall comply with regulations contained in the zoning ordinance.
3. Mobile food units shall submit a site plan for a commissary location when:
 - a. New certificate of occupancy or change of occupancy for a new commissary is needed.
 - b. Expansion or other improvements to a commissary that would normally trigger site plan review for any building/site expansion is proposed.
4. A mobile food unit commissary that is located within an overlay zone, or other established district, shall comply with all district standards and shall obtain all necessary approvals if the mobile unit is located more than three consecutive days.

F. *Mobile Food Parks requirements*

1. The City shall allow Food Truck Parks. Food Truck Park shall be considered a primary use on a property and therefore is subject to all development standards applicable to the zoning of the property, including off-street parking requirements. All Food Truck Parks shall require a Certificate of Occupancy and be subject to the following requirements:
 - a. All Food Truck Parks shall comply with all applicable regulations of the Health Department, adopted building codes, International Fire Code, this chapter, and all other applicable federal state and local laws. All Food Truck Parks shall be on legally platted lots.
 - b. On-site Manager: There must be a designated manager of the site that is responsible for the orderly organization of Mobile Food Units, the cleanliness of the site, and the site's compliance with all rules and regulations during business hours.
 - c. Restrooms: At least one permanent restroom within 500 feet of each Mobile Food Unit must be made accessible to Food Truck Park patrons while

the Food Truck Park is open.

e. Food Truck Parks may be standalone establishments or may be located on a property with other permanent uses (i.e. retail establishments). These properties shall be designed to be able to accommodate all required development standards for all primary uses.

f. Food Truck Parks that are eligible to sell alcohol may do so provided they meet the requirements of the Texas Alcoholic Beverage Code, Texas Alcoholic Beverage Commission and City Code of San Angelo. Alcohol shall only be sold from a fixed location.

g. Mobile Food Units shall be parked on approved surfaces under the zoning ordinance and at a minimum be parked on compacted gravel base.

h. Signs: One on-premises sign is permitted at the entrance(s) identifying the Food Truck Park subject to the sign regulations for the applicable zoning district. Each Mobile Food Unit may have attached signage.

i. Distance requirements (property line measurement): A Food Truck Park shall not be less than 100 feet from another Food Truck Park.

l. All Food Truck Parks not located in the Central Business District (CBD), or the Arts and Culture District shall provide off-street parking (see Sec. 511).

m. Park owners are encouraged to provide for an aesthetically pleasing environment which includes shade and seating elements in addition to pervious groundcover. The Planning Director may allow for alternative compliance as it pertains to landscaping requirements for standalone Food Truck Parks.

n. All Food Truck Parks shall comply with the noise regulations in City Code Section 8.01.005.

o. All Food Truck Parks shall comply with all adopted floodplain regulations.

2. Food Truck Parks shall consist of four or more Mobile Food Units (MFUs) and are generally allowed as a by-right use in all commercial and industrial zoning districts (see Section 313 Use Table). The site plan required for a Food Truck Park shall provide the following information for review:

- a. The land area included within the property, the zoning classification of adjacent properties, and all public and private rights-of-way and easements bounding and intersecting the site;
- b. A legal description of the platted lots of the proposed site and the boundaries thereof;
- c. The location of each proposed permanent structure on the site and pads for Mobile Food Units, and identification of any proposed outdoor entertainment locations and fixed seating areas.
- d. The location, width, and surface material of driving lanes and Mobile Food Unit pads;
- e. The location of fire hydrants;
- f. The dimensions and capacities of parking areas and loading areas;
- g. All pedestrian walks, patios and open areas for use by tenants or the public;
- h. The location, height, and materials of all screening mechanisms;
- i. The location, size, height, and orientation of all lighting and signs;
- j. Location and screening of refuse containers, mechanical equipment, and outside storage or display;
- k. Location and number of seating and eating areas provided, including the number of fixed seats and tables;
- l. All proposed phasing of the park (if applicable);
- m. Location, height, separation of buildings, including location of restrooms;
- n. Location and type of electrical outlets provided for each corresponding pad site. Food Truck Parks are required to provide electricity for each MFU
- o. Food truck Parks may provide potable water hookups with proper backflow devices

ORDINANCE 2026

AN ORDINANCE OF THE CITY OF SAN ANGELO, TEXAS, AMENDING CHAPTER 12 "PLANNING AND DEVELOPMENT," EXHIBIT A "ZONING ORDINANCE," ARTICLE 3 "USE REGULATIONS," SECTION 313 "USE TABLE"; PROVIDING FOR SEVERABILITY; AND, PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, on the 19th day of May, 2026, the Planning Commission for the City of San Angelo and the City Council, after having given due and proper notice and held a joint public hearing, considered public comment, and considered recommendations from City staff, City Council desires to amend **Chapter 12 "Planning and Development," Exhibit A "Zoning Ordinance," Article 3 "Use Regulations,"; Section 313 "Use Table"**.

NOW THEREFORE, BE IT ORDAINED BY THE CITY OF SAN ANGELO, TEXAS

Section 1. Chapter 12 "Planning and Development," Exhibit A "Zoning Ordinance," Article 3 "Use Regulations," Section 313 "Use Table" are hereby amended as set forth in Exhibit "A" attached hereto and incorporated herein for all purposes.

Section 2. The terms and provisions of this ordinance shall be deemed to be severable in that if any portion of this ordinance shall be declared to be invalid, the same shall not affect the validity of the other provisions of this ordinance.

Section 3. This Ordinance shall be effective on and after June 2, 2026.

INTRODUCED with public hearing the 19th day of May 2026, and finally PASSED this 2nd day of June 2026.

THE CITY OF SAN ANGELO, TEXAS:

Tom Thompson, Mayor

ATTEST:

Heather Stastny, City Clerk

APPROVED AS TO CONTENT:

Aaron Vannoy, Director of Planning
And Development Services

APPROVED AS TO FORM:

Brandon Dyson, City Attorney

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Aaron Vannoy, Director, Planning and Development Services

Meeting Date: June 2, 2026

Item type: Consent Item

Caption:

Second reading of an ordinance for ROW26-01, a request to abandon a portion of Waco St. in Block 55 Hatcher addition in front of Lots 11, 12, 13 and 14 being 0.182 acres (Aaron Vannoy)

Staff Recommendation:

Approve

Summary/History:

This request is the next step for development of these vacant lots along Waco St. The abandonment is for the full right-of-way, which will be platted into the four lots adjacent to Hatcher Addition Block 51 lots 11-14. This would then have frontage on the Houston Harte frontage road. The applicant will be replatting these into one lot for a commercial development. The properties have undergone a rezoning to neighborhood commercial. The Planning Commission heard the abandonment case on April 20, 2026, and recommended approval with a 6-0 vote.

Funding Source(s):

Financial Impact:

Other Information/Recommendation:

Attachments:

- | | |
|---|---|
| 1. Staff Report - Hatcher Blk 55 - Waco St | Staff Report - Hatcher Blk 55 - Waco St.docx |
| 2. 001 Exhibit A | 001 Exhibit A.pdf |
| 3. ROW26-01 Ordinance -Waco St Hatcher Blk 51 | ROW26-01 Ordinance -Waco St Hatcher Blk 51.docx |

Presentation:

Aaron Vannoy

Approvals/Reviews:

Aaron Vannoy
Aaron Vannoy
Brandon Dyson
Heather Stastny

Created/Initiated
Approved
Approved
Final Approval

CITY COUNCIL– April 7, 2026
STAFF REPORT



APPLICATION TYPE:		CASE:	
Street Right-of-way Abandonment		ROW26-01 Hatcher Addition Blk55, Lots 11-14 'Waco St.'	
SYNOPSIS:			
The applicant has requested to abandon an existing 7,934-square foot (0.182 acres) unimproved street between the Guthrie St. and W. Houston Harte Expy. Frontage Rd. The abandonment will allow the applicant to acquire the additional land for future development.			
LOCATION:		LEGAL DESCRIPTION:	
West of Guthrie St; in front of 3110-3122 Waco St.		Being a 7,934-square foot (0.182 acres) alley in Block 55 of the Hatcher Addition	
SM DISTRICT / NEIGHBORHOOD:	ZONING:	FUTURE LAND USE:	SIZE:
District #2 – Joe Self Bluffs Neighborhood	Neighborhood Commercial	Neighborhood Center	0.182 ac. (7,934 sq. ft.)
THOROUGHFARE PLAN:			
Waco Street – Urban Local Street, unimproved			
NOTIFICATIONS:			
21 notifications were mailed within a 200-foot radius of the property on April 6, 2026. One response has been received in favor and none against to date.			
STAFF RECOMMENDATION:			
Staff recommends APPROVAL of the Alley Right-of-Way Abandonment of a 7,934 square-foot alley in Block 55 of the Hatcher Addition, subject to three conditions of approval .			
PROPERTY OWNER/PETITIONER:			
Ronnie Walcott			
STAFF CONTACT:			
Aaron Vannoy Director Planning and Development Services (325) 657-4210, Ext. 1542 Aaron.vannoy@sanangelo.gov			

Rationale:

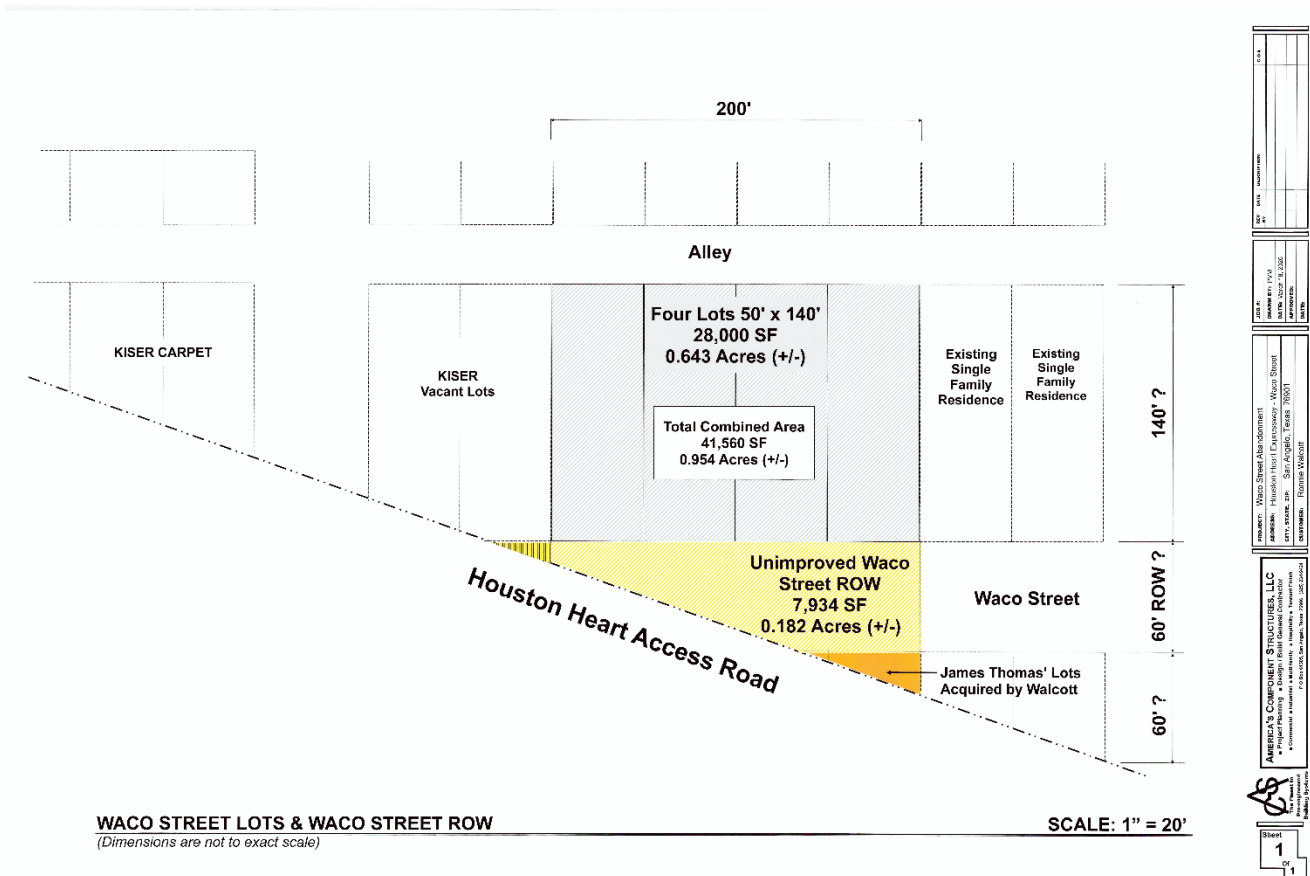
Planning Staff reviewed all relevant history, ordinances, policies, and as indicated above, conducted a site visit to the property to determine the appropriateness of abandoning this public right-of-way.

- *Traffic patterns:* Staff does not believe that traffic patterns would be negatively affected by the Street Closure, the portion to be close is unimproved.
- *Utilities:* Currently no City or known 3rd party utilities in this right of way.
- *Community Impact:* There would be no negative community impact if this street was abandoned provided the adjacent owners have no objection. As indicated the additional land will be to allow future development for the applicant. There is already an approach or driveway from Houston Harte Expy. Frontage Rd. to the property.
- *Public Benefit:* Abandoning this street would not remove any current public benefit.

Recommendation:

Staff recommends **APPROVAL** of the Alley Right-of-Way Abandonment of a 7,934 Sq. ft. of unimproved Waco St located at lots 11-14 Blk. 55 Hatcher Addition, subject to **three conditions of approval**.

1. Per Land Development and Subdivision Ordinance, Chapter 1.V, submit, obtain approval, and officially record a subdivision replat absorbing all of the abandoned right-of-way into adjacent lot(s) meeting all requirements of the Land Development and Subdivision Ordinance, within 36 months of City Council's decision.
2. Per the Schedule of Fees and Charges, payment shall be remitted, per the assessment formula, for all of the abandoned alley right-of-way.
3. After approval of the associated plat and payment, request issuance and recordation of a Quit Claim Deed from the City's Real Estate Division conveying the City's interest in the entirety of the abandoned right-of-way.









Aerial Map

Case ROW26-01: Hatcher Addn, Blk 55, Lot 11-14

Council District: #2 - Joe Self

Neighborhood: Bluffs

Scale: 0 0 0.01 0.02 0.02 0.03 Miles

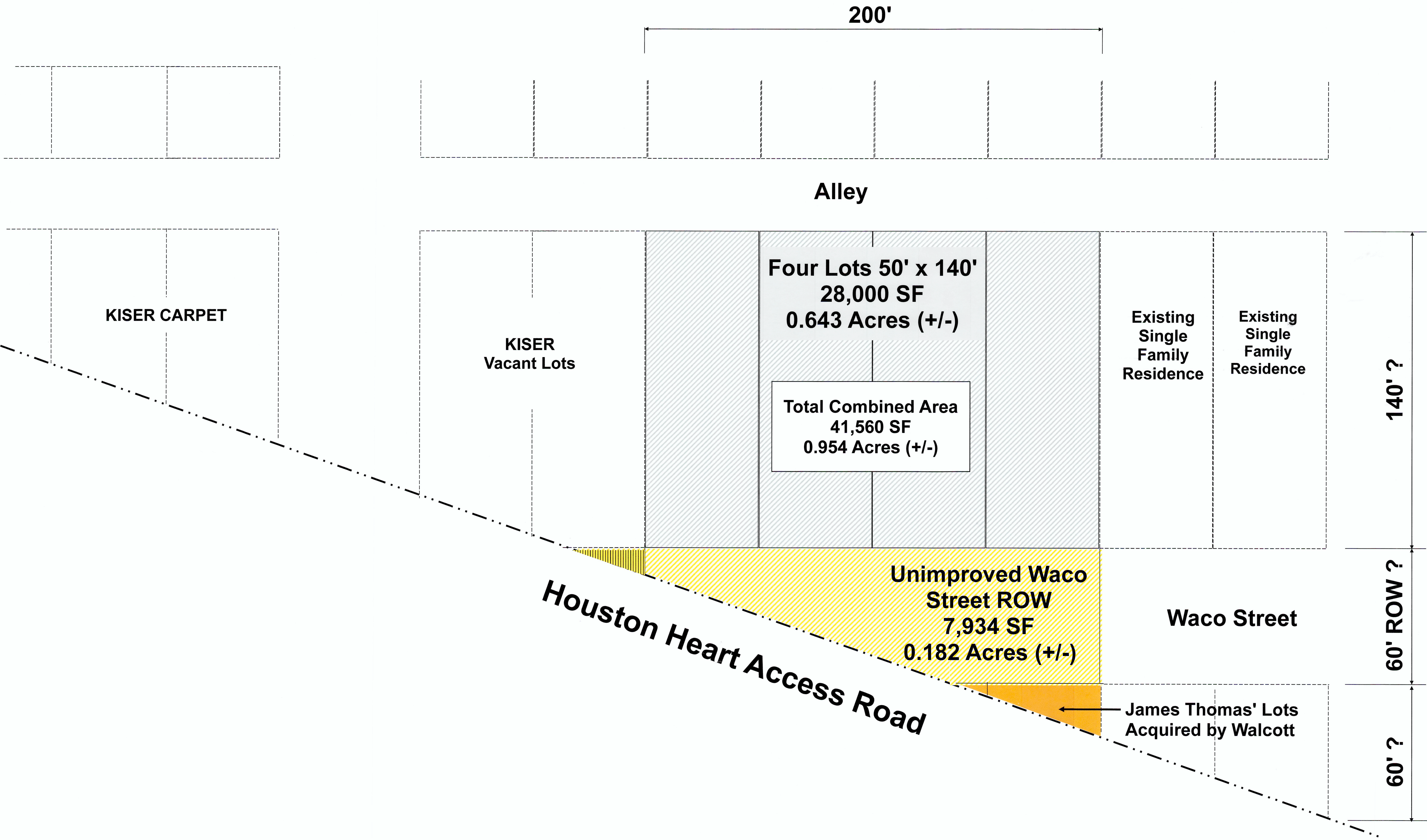
200' Range: —

Subject Property: —

Notified Properties: —

N





WACO STREET LOTS & WACO STREET ROW
(Dimensions are not to exact scale)

SCALE: 1" = 20'

REV	DATE	DESCRIPTION	C O #

JOB #:	DRAWN BY: P/M
DATE: March 18, 2026	APPROVED: DATE:

PROJECT:	Waco Street Abandonment
ADDRESS:	Houston Heart Expressway - Waco Street
CITY, STATE, ZIP:	San Angelo, Texas 76901
CUSTOMER:	Ronnie Walcott

AMERICA'S COMPONENT STRUCTURES, LLC

- Project Planning
- Design / Build General Contractor
- Commercial
- Industrial
- Multi-family
- Hospitality
- Tenant Finish

P O Box 61395, San Angelo, Texas 76906 (325) 234-4424

AN ORDINANCE PROVIDING FOR ABANDONMENT AND CLOSING OF A PORTION OF THE EAST SIDE OF STREET RIGHT-OF-WAY AT HATCHER ADDITION, BLOCK 55, LOTS 11, 12, 13, AND 14; AUTHORIZING CONVEYANCE THEREOF BY QUITCLAIM DEED TO ADJOINING PROPERTY OWNER(S); AND PROVIDING TERMS AND CONDITIONS OF ABANDONMENT AND CONVEYANCE.

WHEREAS, an undeveloped portion of Waco Street beginning at Lot 11 in Block 55 of the Hatcher Addition, encompassing 7,934 square feet of area that is excess and not functioning for street or utility public right-of-way purposes; and,

WHEREAS, the City Council of the City of San Angelo, acting pursuant to law, is of the opinion that said portion of Waco Street right-of-way is no longer needed for public use and therefore deems it advisable to abandon said portion of street and convey the underlying tract of land to owner(s) of adjoining property; and,

WHEREAS, the City Council of the City of San Angelo is of the opinion that the best interest and welfare of the public will be served by abandoning and vacating said excess area of Waco Street and conveying the underlying tract of land to the abutting property owner(s), subject to the conditions and restrictions contained herein;

NOW, THEREFORE, BE IT ORDAINED BY THE CITY OF SAN ANGELO THAT:

SECTION 1: That certain 7,934 square feet of excess street right-of-way created by undeveloped portion of Waco Street beginning at Lot 11 in Block 55 of the Hatcher Addition Street located in the City of San Angelo, Tom Green County, Texas, , more particularly described and depicted in **Exhibit "A,"** attached hereto and made a part hereof for all purposes, be and the same is hereby abandoned and vacated insofar as the right, title and easement of the public are concerned; subject however, to the conditions and restrictions hereinafter more fully set out.

SECTION 2: The abandonment and conveyance provided for herein is made and accepted subject to all present zoning and deed restrictions, if the latter exist, and all existing easements, if any, whether apparent or not, aerial, surface, underground or otherwise.

SECTION 3: The abandonment and conveyance provided for herein shall extend only to the public right, title, easement and interest and shall be construed to extend only to the interest which the governing body for the City of San Angelo may legally and lawfully abandon and vacate.

SECTION 4: As conditions of the abandonment and as part of the consideration for conveyance by quitclaim deed of the underlying tract of land to owner(s) of the adjoining property, said property owner(s) shall:

1. Per Land Development and Subdivision Ordinance, Chapter 1.V, submit, obtain approval, and officially record a subdivision replat absorbing all of the abandoned right-of-way into adjacent lot(s) meeting all requirements of the Land Development and Subdivision Ordinance, within 36 months of City Council's decision.
2. Per the Schedule of Fees and Charges, payment shall be remitted, per the assessment formula, for all of the abandoned alley right-of-way.
3. After approval of the associated plat and payment, request issuance and recordation of a Quit Claim Deed from the City's Real Estate Division conveying the City's interest in the entirety of the abandoned right-of-way.

SECTION 5: The terms and conditions contained in this Ordinance shall be binding upon Grantees and Grantees' heirs, successors and assigns.

SECTION 6: The City Manager or Mayor of the City of San Angelo is hereby authorized to execute and, upon receipt of evidence of compliance with the conditions provided for at Section 4 of this Ordinance, deliver quit claim deeds conveying the subject

tracts of land described and depicted in **Exhibit “A,”** to the abutting property owner(s) as herein provided.SECTION 7: The City Clerk is hereby authorized and directed to certify a copy of this adopted Ordinance for recordation in the Official Real Property Records of Tom Green County, Texas, wherein the tracts of land are located.

INTRODUCED on the **19th day of May, 2026,** and finally PASSED, APPROVED AND ADOPTED on this the **2nd day of June, 2026.**

THE CITY OF SAN ANGELO

Tom Thompson, Mayor

ATTEST:

APPROVED AS TO FORM:

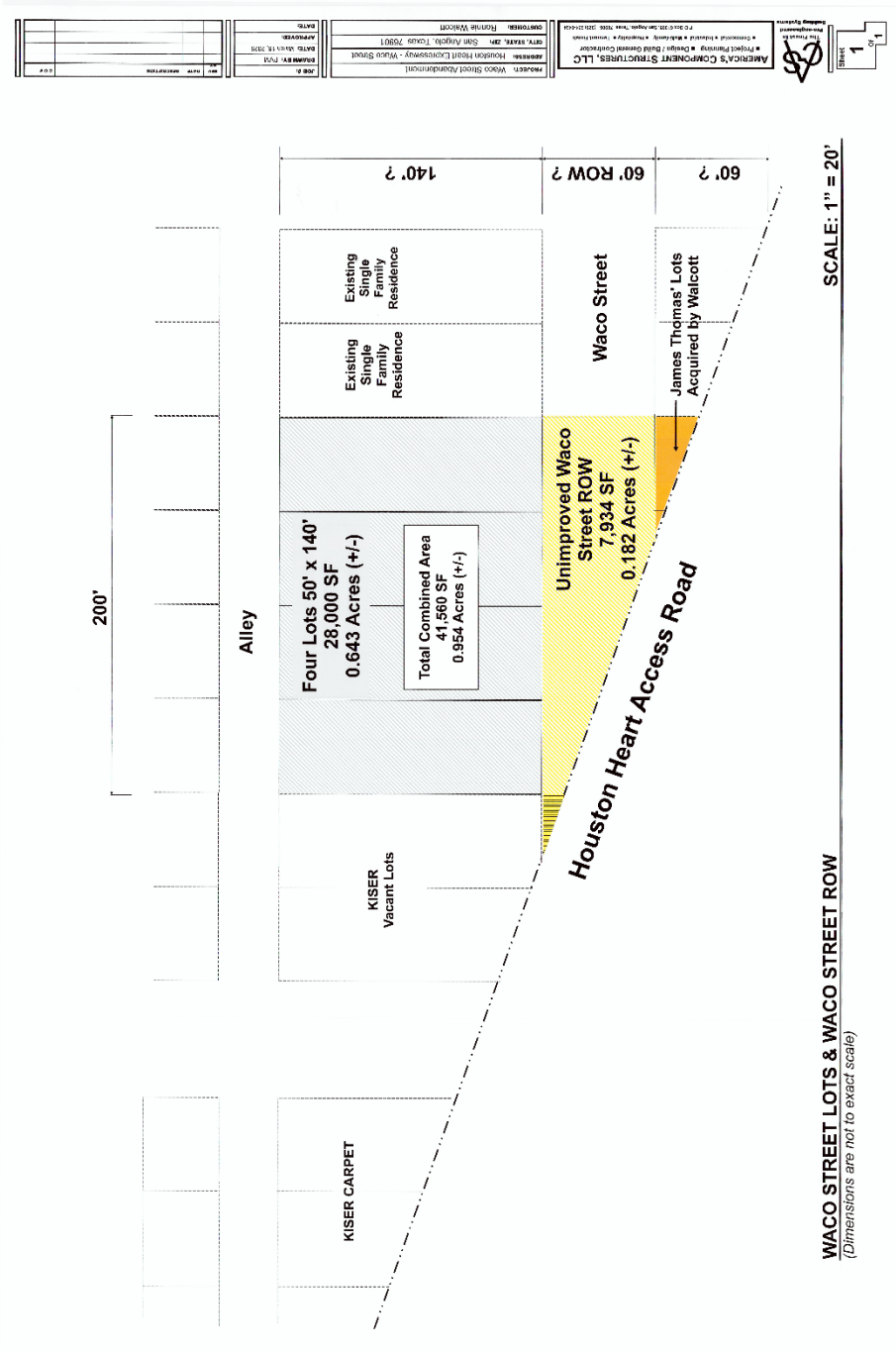
Heather Stastny, City Clerk

Brandon Dyson, City Attorney

APPROVED FOR COMPLIANCE WITH ORDINANCE

Aaron Vannoy, Director of Planning and Development

Exhibit A



REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Aaron Vannoy, Director, Planning and Development Services

Meeting Date: June 2, 2026

Item type: Consent Item

Caption:

Second reading of an ordinance for ROW26-02, a request to abandon 48,423 sq.ft. of street right-of-way being the 18th St. Bypass between 18th St. and North Poe St. (Presentation made by Planning and Development Services Director Aaron Vannoy)

Staff Recommendation:

Adopt

Summary/History:

This request came from a discussion between City of San Angelo Operations and the Baptist Memorial Retirement Center to look at squiring the 18th Street bypass. This request goes along with the Baptist Retirement Center's desire to replat portions of their complex for resale of the lots and homes. The two private structures to the north have frontage on N. 18th and N. Poe St as well as utilities. They would not lose their access to city infrastructure. The came before the Plannign Commission and is recommended for approval with a 6-0 vote on April 20th, 2026.

Funding Source(s):

Financial Impact:

Other Information/Recommendation:

Attachments:

- | | |
|-------------------------------|---------------------------------|
| 1. ROW26-02 - Staff Report v2 | ROW26-02 - Staff Report v2.docx |
| 2. ROW26-02 - Ordinance | ROW26-02 - Ordinance.docx |

Presentation:

Aaron Vannoy

Approvals/Reviews:

Aaron Vannoy
Aaron Vannoy
Brandon Dyson
Heather Stastny

Created/Initiated
Approved
Approved
Final Approval

PLANNING COMMISSION – April 20, 2026

STAFF REPORT

City Council 1st reading: May 19, 2026



APPLICATION TYPE:		CASE:	
Street Right-of-Way Abandonment		ROW26-02: 18 th Street Bypass	
SYNOPSIS:			
The applicant has requested the abandonment of the 18 th Street Bypass, a street bypass connecting East 18 th Street and North Poe. The area being abandoned measures 48,423 square feet and is located just northeast of the Baptist Memorial Retirement Community.			
LOCATION:		LEGAL DESCRIPTION:	
18 th Street Bypass, connecting E 18 th Street to N Poe		N/A	
SM DISTRICT / NEIGHBORHOOD:	ZONING:	FUTURE LAND USE:	SIZE:
District: #4 Patrick Keely Neighborhood: Paulann	Single-Family Residential (RS-1), PD25-01	Neighborhood	48,423 square feet, or 1.111 acres
THOROUGHFARE PLAN:			
E 18 th Street – Local Road E 18 th Street Bypass – Local Road N Poe Street – Local Road			
NOTIFICATIONS:			
37 notifications mailed. Zero (0) received in support or in opposition.			
STAFF RECOMMENDATION:			
Staff recommend APPROVAL of the Street Right-of-Way Abandonment subject to three (3) conditions .			
PROPERTY OWNER/PETITIONER:			
Petitioner: Baptist Memorial Ministries			
STAFF CONTACT:			
Austin Reed Senior Planner (325) 657-4210, Extension 1550 austin.reed@sanangelo.gov			

Additional Information:

There are no existing City utilities located within the area to be abandoned. This abandonment comes as a result of the Baptist Memorial Retirement Community subdividing their adjacent property, where this road will be abandoned and maintained privately. There are two existing residences abutting the abandonment which have frontage on East 18th or North Poe and may retain their access from the bypass should they choose to acquire their portion of the abandonment.

Rationale:

- *Traffic patterns:* Planning staff believe that existing or anticipated traffic patterns would not be affected in a negative way and the abandonment would help to alleviate issues arising from what could be considered a confusing or redundant road.
- *Utilities:* There are no existing City utilities within the proposed abandonment.
- *Community Impact:* Planning staff have sent adjacent owners public notice of the meeting. No adjacent property owner will be rendered landlocked and may choose to acquire their respective portions of the abandonment.
- *Public Benefit:* The 18th Street Bypass may be redundant and, by abandoning the area behind the homes which are being subdivided, could transfer maintenance responsibilities from the City and individual homeowners to a separate party.

Recommendation:

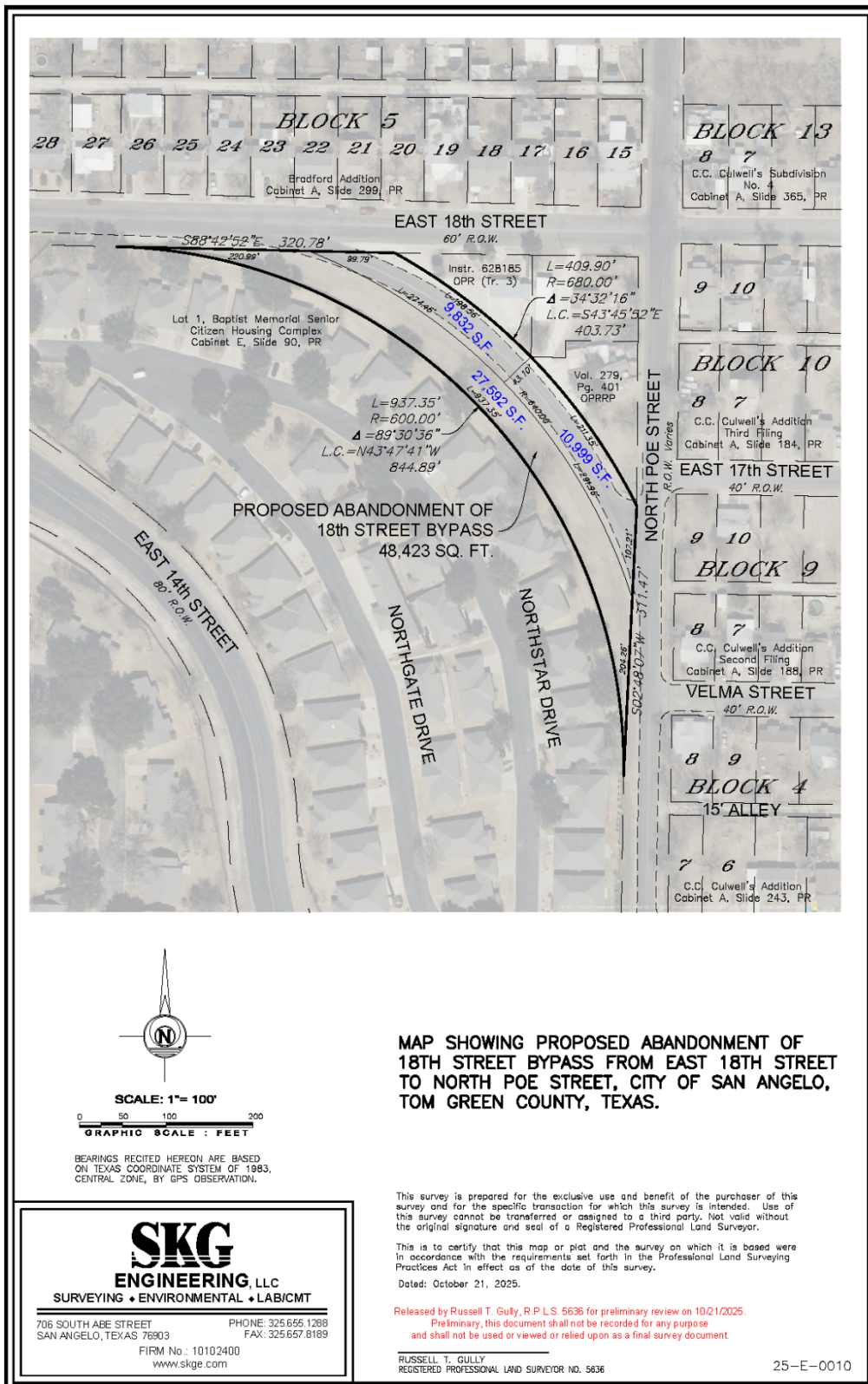
Staff recommend **APPROVAL** of the proposed abandonment **subject to three (3) conditions of approval:**

1. Per the most current Schedule of Fees and Charges adopted by City Council, payment shall be remitted, per the assessment formula, for all of the abandoned right-of-way.
2. After approval of the associated plat and payment, request issuance and recordation of a Quit Claim Deed from the City's Real Estate Division conveying the City's interest in the entirety of the abandoned right-of-way.
3. Submit, obtain approval of, and officially record a subdivision replat absorbing all of the abandoned right-of-way into adjacent lot(s) meeting all requirements of the Land Development and Subdivision Ordinance within 24 months of City Council's decision.

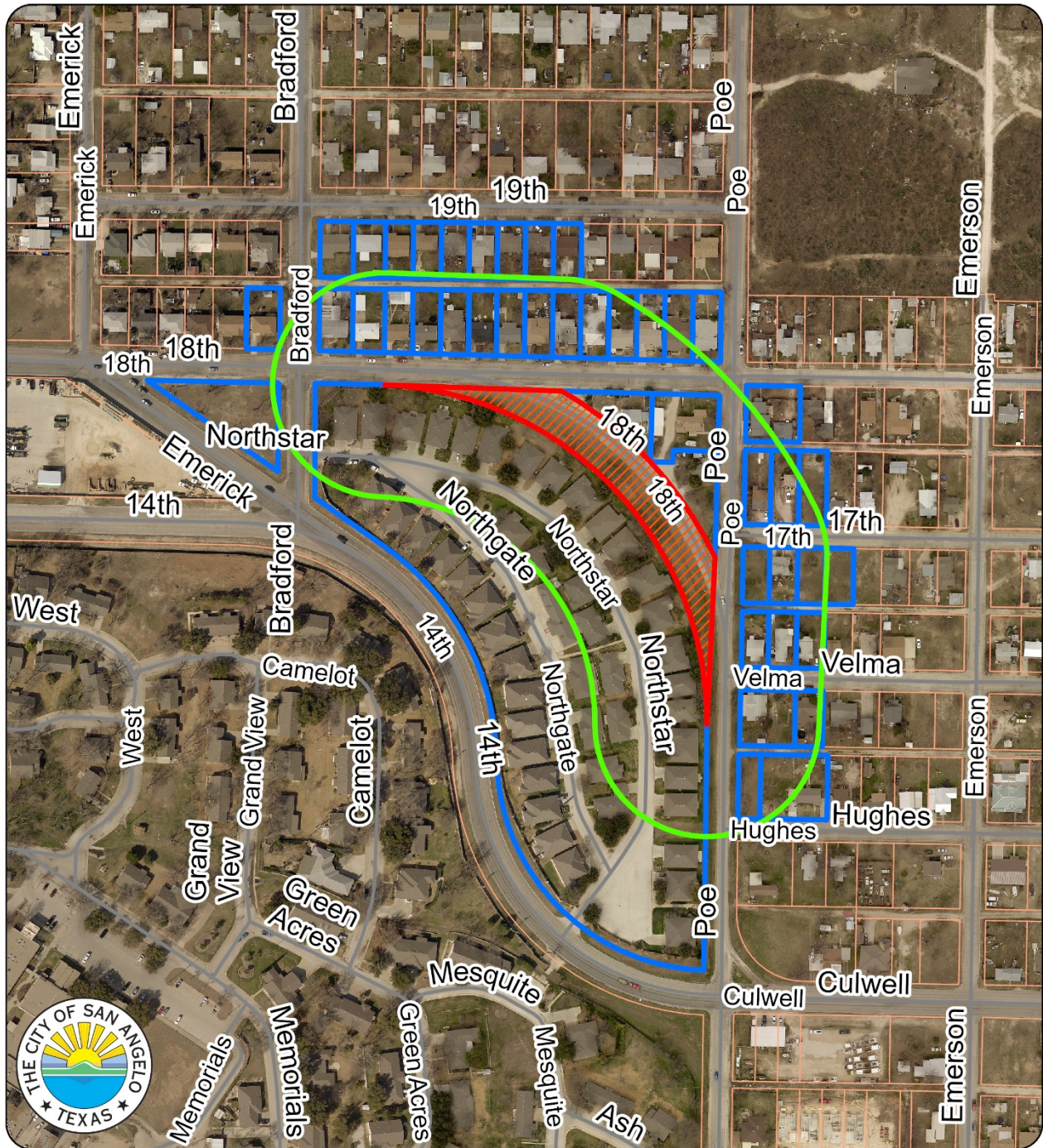
Attachments:

Exhibit
Notification Map
Aerial Map
Site Photo

Exhibit



Notification Map



Notification Map
Case ROW26-02: 18th St Bypass

Council District: #4 - Patrick Keely
Neighborhood: Paulann

Scale: 0 0.01 0.03 0.06 0.09 0.12 Miles

200' Range: 

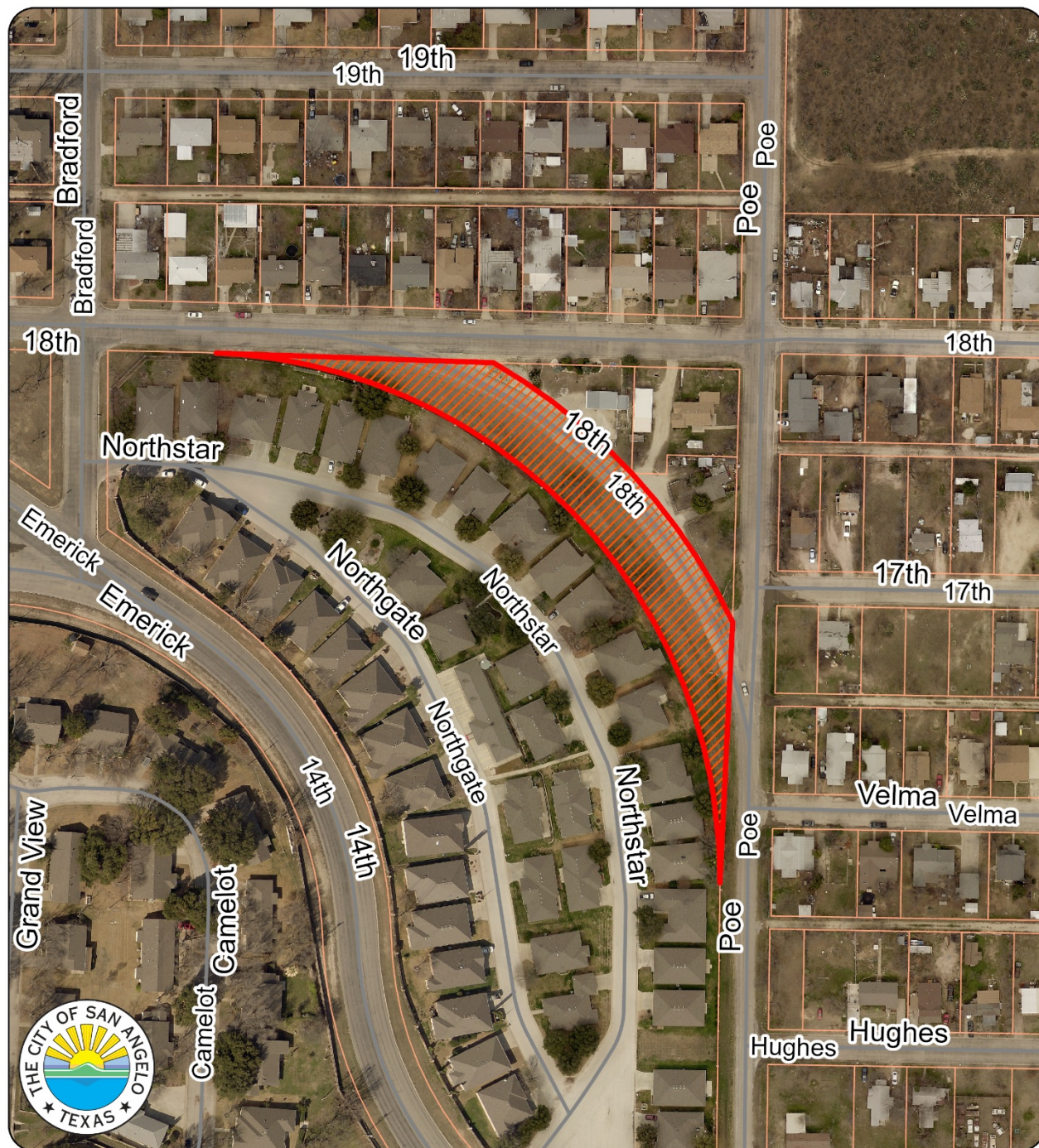
Subject Property: 

Notified Properties: 

N



Aerial Map



Aerial Map

Case ROW26-02: 18th St Bypass

Council District: #4 - Patrick Keely
Neighborhood: Paulann

Scale: 0 0.01 0.02 0.04 0.06 0.08 Miles

200' Range: 

Subject Property: 

Notified Properties: 

N



Site Photo



AN ORDINANCE PROVIDING FOR ABANDONMENT AND VACATION OF STREET RIGHT-OF-WAY COMPRISED OF 48,423 SQUARE FEET BEING THE 18TH STREET BYPASS; AUTHORIZING CONVEYANCE THEREOF BY QUITCLAIM DEED TO ABUTTING PROPERTY OWNERS; AND PROVIDING TERMS AND CONDITIONS OF ABANDONMENT AND CONVEYANCE.

WHEREAS, the City Council of the City of San Angelo, Texas, acting pursuant to law, is of the opinion that the public right-of-way described herein, is no longer needed for public use and therefore deems it advisable to abandon said portion of right-of-way; and,

WHEREAS, the City Council is of the opinion that the best interest and welfare of the public will be served by conditionally conveying the underlying abandoned public right-of-way to the abutting property owners;

NOW, THEREFORE, BE IT ORDAINED BY THE CITY OF SAN ANGELO THAT:

SECTION 1: The public right-of-way located in the City of San Angelo, comprised of 48,423 square feet northeast of the Baptist Memorial Senior Citizen Housing Complex, the boundary of which is 80 feet wide and extends from East 18th Street to North Poe Street, Tom Green County, Texas, more particularly described and depicted in **Exhibit "A,"** attached hereto and made a part hereof for all purposes, be and the same is hereby vacated, abandoned and closed insofar as the right, title and easement of the public are concerned, subject to the conditions and restrictions herein set forth.

SECTION 2: The abandonments and conveyances provided for herein are made and accepted subject to all present zoning and deed restrictions, if the latter exist, and all existing easements, if any, whether apparent or not, aerial, surface, underground or otherwise.

SECTION 3: The abandonments and conveyances provided for herein shall extend only to the public right, title, easement and interest and shall be construed to extend only to the interest which the governing body for the City of San Angelo may legally and lawfully abandon and vacate.

SECTION 4: The following conditions precedent to the abandonment shall apply and be part of the consideration for conveyance by quitclaim deed(s) of the underlying tracts of land to owners of abutting properties:

1. Per the most recent *Schedule of Fees and Charges* adopted by City Council, remit payment per the assessment formula for all of the abandoned street right-of-way.
2. Submit, obtain approval, and officially record a subdivision replat absorbing all of the abandoned street right-of-way into adjacent lot(s) meeting all requirements of the Land Development and Subdivision Ordinance within 24 months of City Council's decision.
3. After approval of the associated plat and payment, request issuance and recordation of a Quit Claim Deed from the City's Real Estate Division conveying the City's interest in the entirety of the abandoned street.

SECTION 5: The terms and conditions set forth hereinabove shall be applicable to the conveyances of rights-of-way herein provided for, and shall be binding upon Grantees thereof and their heirs, successors and assigns.

SECTION 6: Upon confirmation from the Planning Director of compliance with conditions hereinabove set forth, the City Manager or Mayor of the City of San Angelo is hereby authorized to execute and deliver quitclaim deeds conveying the subject tracts of abandoned right-of-way described and depicted in **Exhibit "A,"** to the owners of the designated abutting properties.

SECTION 7: Upon confirmation from the Planning Director of compliance with conditions hereinabove set forth, the City Clerk is hereby authorized and directed to certify a copy of this adopted Ordinance for recordation in the Official Real Property Records of Tom Green County, Texas, wherein the tracts of land are located.

INTRODUCED on the **19th day of May 2026**, and finally PASSED, APPROVED AND ADOPTED on this the **2nd day of June 2026**.

THE CITY OF SAN ANGELO

Tom Thompson, Mayor

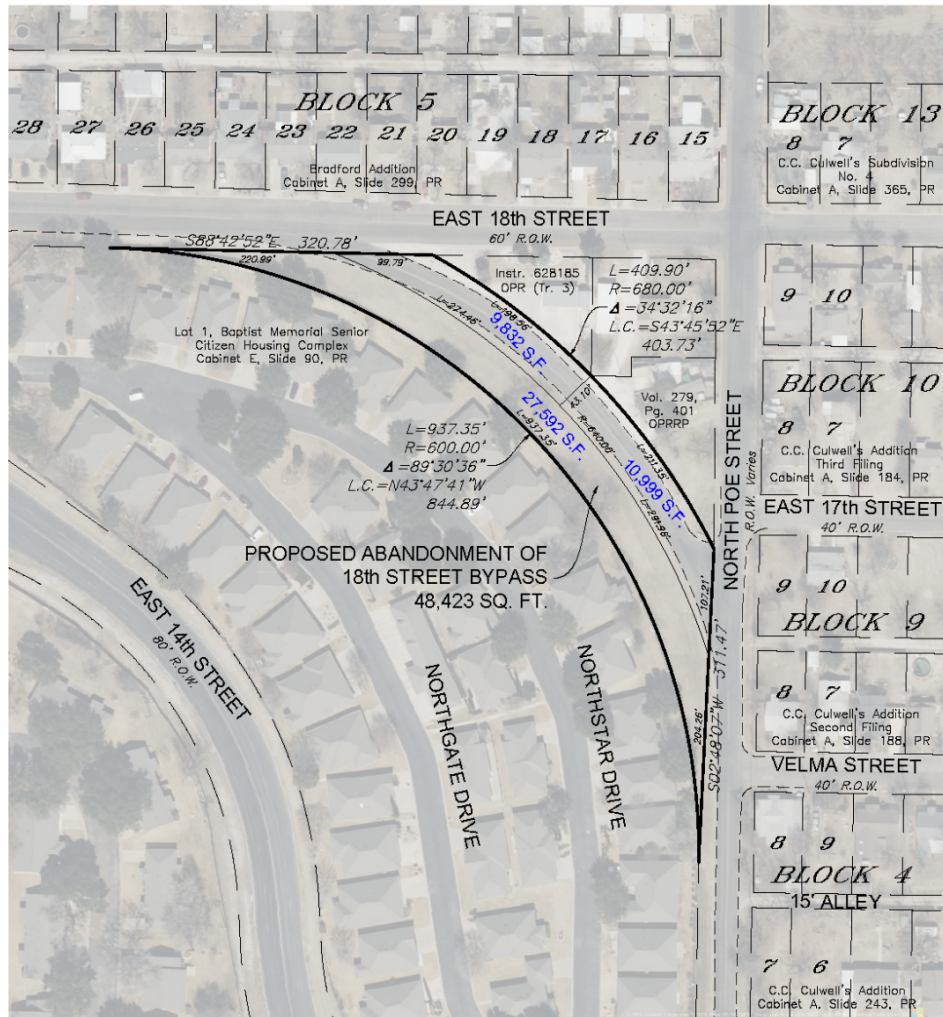
ATTEST:

Heather Stastny, City Clerk

APPROVED AS TO FORM:

Brandon Dyson, City Attorney

Exhibit "A"



SCALE: 1"= 100'
GRAPHIC SCALE : FEET

BEARINGS RECITED HEREON ARE BASED
ON TEXAS COORDINATE SYSTEM OF 1983,
CENTRAL ZONE, BY GPS OBSERVATION.

**MAP SHOWING PROPOSED ABANDONMENT OF
18TH STREET BYPASS FROM EAST 18TH STREET
TO NORTH POE STREET, CITY OF SAN ANGELO,
TOM GREEN COUNTY, TEXAS.**

This survey is prepared for the exclusive use and benefit of the purchaser of this survey and for the specific transaction for which this survey is intended. Use of this survey cannot be transferred or assigned to a third party. Not valid without the original signature and seal of a Registered Professional Land Surveyor.

This is to certify that this map or plot and the survey on which it is based were in accordance with the requirements set forth in the Professional Land Surveying Practices Act in effect as of the date of this survey.

Dated: October 21, 2025.

Released by Russell T. Gully, R.P.L.S. 5636 for preliminary review on 10/21/2025.

Preliminary, this document shall not be recorded for any purpose
and shall not be used or viewed or relied upon as a final survey document.

RUSSELL T. GULLY
REGISTERED PROFESSIONAL LAND SURVEYOR NO. 5636

25-E-0010

SKG

ENGINEERING, LLC

SURVEYING • ENVIRONMENTAL • LAB/CMT

706 SOUTH ABE STREET PHONE: 325.655.1288
SAN ANGELO, TEXAS 76903 FAX: 325.657.8189

FIRM No.: 10102400
www.skg.com

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Aaron Vannoy, Director, Planning Commission

Meeting Date: June 2, 2026

Item type: Consent Item

Caption:

Second reading of an ordinance for Z26-04, a request for a zone change from the General/Heavy Commercial zoning district to the General Commercial zoning district located at 1212 N. Chadbourne St. (Aaron Vannoy)

Staff Recommendation:

Adopt

Summary/History:

This request from the property owner is to comply with the TIRZ policy to change from (CG/CH) General Commercial Heavy Commercial dual zoning district to a single zoning district. In this case, the project is to redevelop the property with a restaurant and thus, the (CG) general Commercial zoning district is appropriate zoning for their project to move forward. This will be an indoor and outdoor venture with areas for games, families and music. They own adjacent property and may expand in the future if it becomes a well-used property for this purpose. The Planning Commission recommends approval with a 6-0 vote on April 20th, 2026.

Funding Source(s):

Financial Impact:

Other Information/Recommendation:

Attachments:

- | | | |
|----|------------------------------------|---|
| 1. | Z26-04 1212 N Chadbourne Staff | Z26-04 1212 N Chadbourne Staff.pdf |
| 2. | Z26-04 1212 N Chadbourne Ordinance | Z26-04 1212 N Chadbourne Ordinance.docx |

Presentation:

Aaron Vannoy

Approvals/Reviews:

Aaron Vannoy
Aaron Vannoy
Brandon Dyson
Heather Stastny

Created/Initiated
Approved
Approved
Final Approval

STAFF REPORT - Z26-04 1212 N Chadbourne

Planning Commission: April 20, 2026
City Council 1st reading: May 19, 2026



APPLICATION TYPE:		CASES:	
Zone Change		Z26-04: 1212 N Chadbourne St	
SYNOPSIS:			
A request for a zone change from General/Heavy Commercial (CG/CH) to General Commercial located at 1212 N Chadbourne St.			
LOCATION:		LEGAL DESCRIPTION:	
1212 N Chadbourne St		Acres: 0.230, Lot: 9A, Blk: 59, Subd: MILES ADDITION, R/P OF LOTS 9 & 10	
SM DISTRICT / NEIGHBORHOOD:	ZONING:	FUTURE LAND USE:	SIZE:
District #3 – Harry Thomas Neighborhood – Reagan	Currently: CG/CH Requesting: CG	Neighborhood Center	Acres: 0.230
NOTIFICATIONS:			
34 notifications sent on 04/02/26. Received 0 in favor and 0 opposed.			
STAFF RECOMMENDATION:			
Staff recommend approval of a zone change from General/Heavy Commercial (CG/CH) to General Commercial located at 1212 N Chadbourne St.			
PROPERTY OWNER/PETITIONER:			
Petitioner: Maria Kuhlman			
STAFF CONTACT:			
Rae Lineberry Lead Planner (325) 657-4210, ext 1533 Rae.lineberry@sanangelo.gov			

Additional Information: The owner of 1212 N Chadbourne applied for TIRZ and a requirement is to remove the zoning of both General/Heavy Commercial (CG/CH) to one that is appropriate for the land use. The owners would like to open a burger joint in the existing building and create a new parking lot which will fit under General Commercial (CG).

1. **Compatible with Plans and Policies.** **Whether the proposed amendment is compatible with the Comprehensive Plan and any other land use policies adopted by the Planning Commission or City Council.** The proposed zoning is removing the multi-zoning code that Staff is trying to phase out of the Zoning Ordinance. It allows the area to stay commercial along Chadbourne St.
2. **Consistent with Zoning Ordinance.** **Whether and the extent to which the proposed amendment would conflict with any portion of this Zoning Ordinance.** The proposed zoning does not conflict with the zoning ordinance and will allow a new business to open in general commercial.
3. **Compatible with Surrounding Area.** **Whether and the extent to which the proposed amendment is compatible with existing and proposed uses surrounding the subject land and is the appropriate zoning district for the land.** The proposed zoning is compatible with the surrounding area as it is mainly commercial along N Chadbourne St.
4. **Changed Conditions.** **Whether and the extent to which there are changed conditions that require an amendment.** TIRZ requires the removal of General/Heavy Commercial (CG/CH). This will meet that requirement and will fit the area.
5. **Effect on Natural Environment.** **Whether and the extent to which the proposed amendment would result in significant adverse impacts on the natural environment, including but not limited to water and air quality, noise, storm water management, wildlife, vegetation, wetlands and the practical functioning of the natural environment.** There are no anticipated adverse effects on neighboring properties.
6. **Community Need.** **Whether and the extent to which the proposed amendment addresses a demonstrated community need.** Commercial along a minor arterial fit the community need.
7. **Development Patterns.** **Whether and the extent to which the proposed amendment would result in a logical and orderly pattern of urban development in the community.** The properties will meet the development pattern of commercial along N Chadbourne St.

Recommendation:

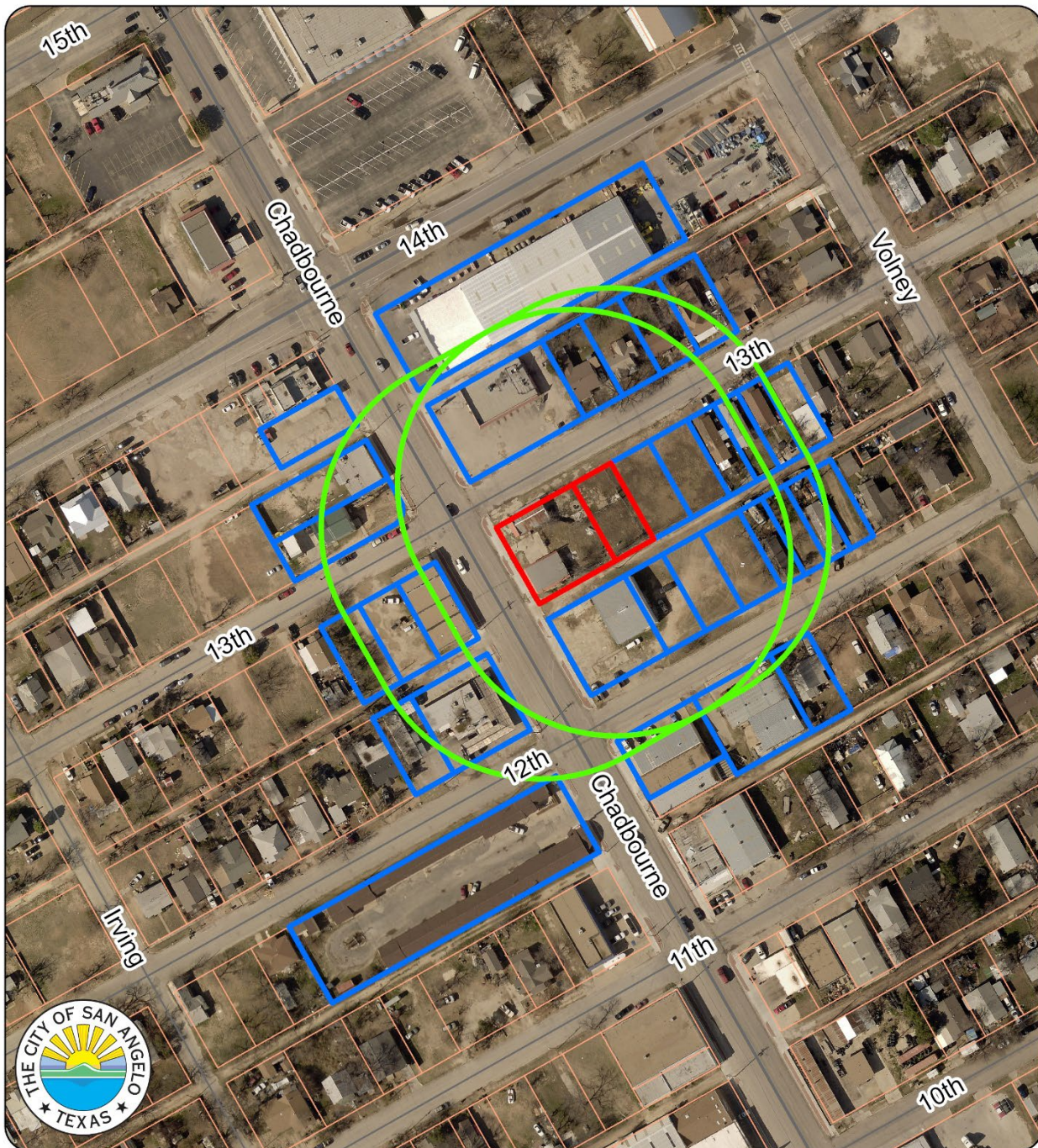
Staff recommend **approval** of a zone change from General/Heavy Commercial (CG/CH) to General Commercial located at 1212 N Chadbourne St.

Attachments:

Notification Map

Zoning Map

Vision Plan Map



Notification Map

Case Z26-04: 1212 N. Chadbourne St

Council District: #3 - Harry Thomas

Neighborhood: Reagan

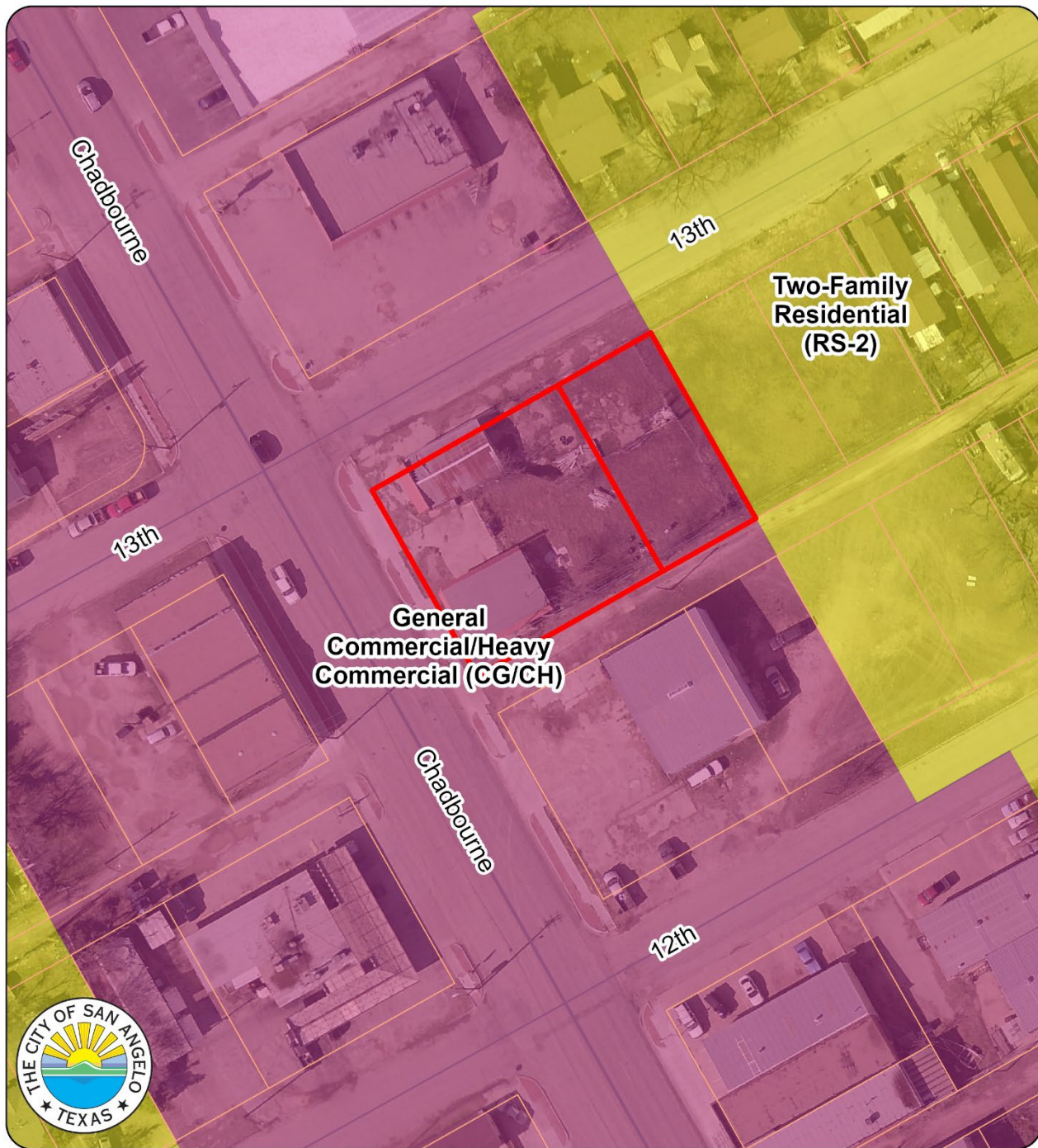
Scale: 0 0.01 0.02 0.04 0.06 0.08 Miles

200' Range: 

Subject Property: 

Notified Properties: 





Zone Map

Case Z26-04: 1212 N. Chadbourne St

Council District: #3 - Harry Thomas

Neighborhood: Reagan

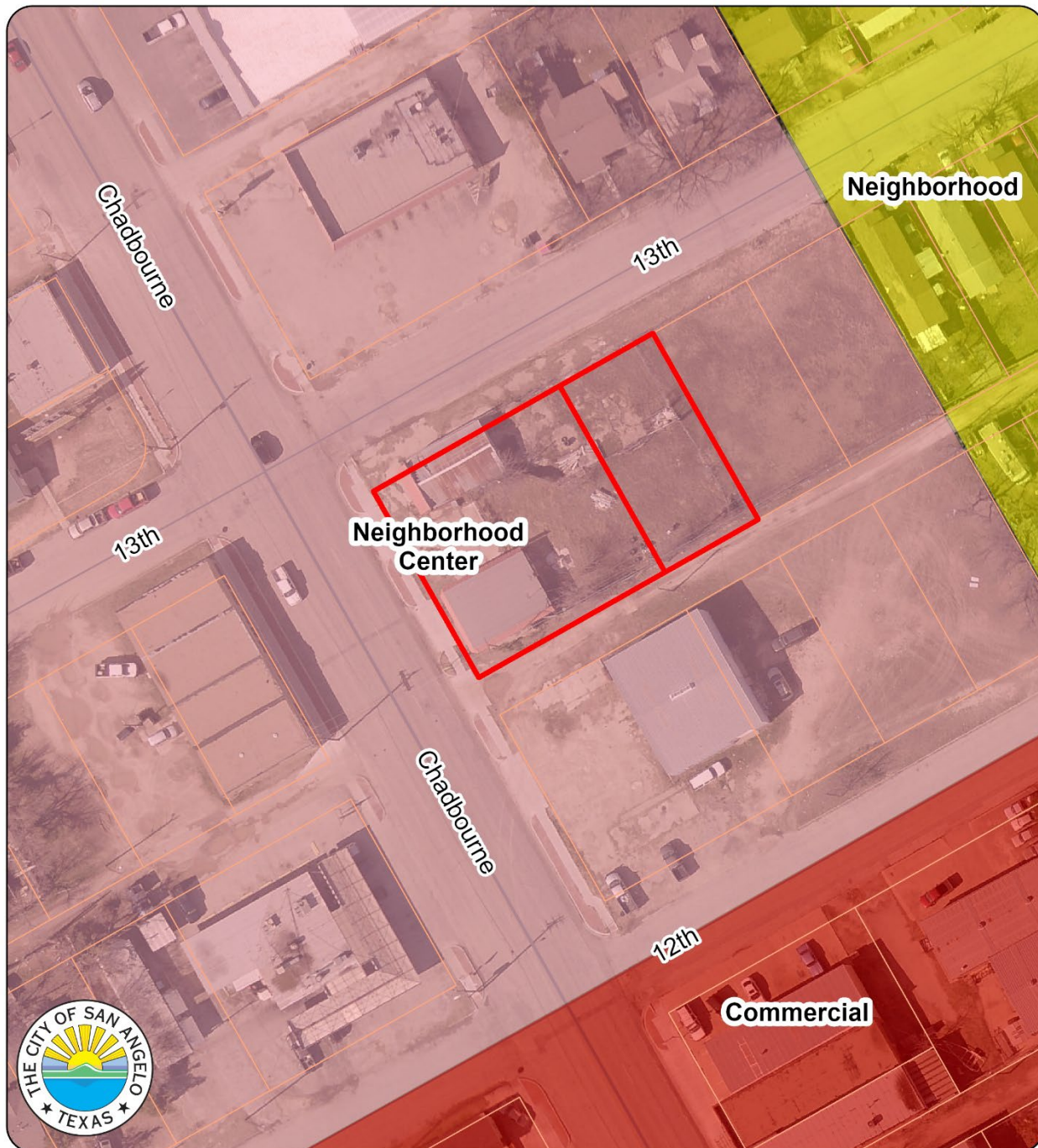
Scale: 0 0.01 0.02 0.03 Miles

200' Range: 

Subject Property: 

Notified Properties: 





Vision Map

Case Z26-04: 1212 N. Chadbourne St

Council District: #3 - Harry Thomas

Neighborhood: Reagan

Scale: 0 0.01 0.02 0.03 Miles

200' Range: 

Subject Property: 

Notified Properties: 



AN ORDINANCE AMENDING CHAPTER 12, EXHIBIT "A" OF THE CODE OF ORDINANCES, CITY OF SAN ANGELO, TEXAS, WHICH ADOPTS ZONING REGULATIONS, USE DISTRICTS AND A ZONING MAP, IN ACCORDANCE WITH A COMPREHENSIVE PLAN, BY REZONING AND CLASSIFYING **APPROXIMATELY 0.230 TOTAL ACRES LOCATED AT 1212 NORTH CHADBOURNE STREET** FROM GENERAL/HEAVY COMMERCIAL (CG/CH) TO GENERAL COMMERCIAL (CG); PROVIDING FOR SEVERABILITY; AND, PROVIDING FOR AN EFFECTIVE DATE

RE: Z26-04: 1212 N CHADBOURNE STREET

WHEREAS, on the 20th day of April, 2026, the Planning Commission for the City of San Angelo in compliance with the City Charter, City ordinance and state law, and after holding a public hearing thereon, caused to be prepared and delivered a report and recommendation to City Council to approve the proposed General Commercial (CG) Zoning District; and,

WHEREAS, on the 19th day of May, 2026, City Council held a public hearing on Z26-04, pursuant to published notice, and has considered the application, comments, reports and recommendations of the Planning Commission and staff, public testimony, and other relevant support materials.

NOW, THEREFORE, BE IT ORDAINED BY THE CITY OF SAN ANGELO:

SECTION 1: The basic zoning ordinance for the City of San Angelo, as enacted by the governing body for the City of San Angelo effective January 4, 2000, and included within Exhibit "A" of Chapter 12 of the Code of Ordinances of the City of San Angelo, together with the official zoning map, are hereby amended to rezone the following described property from General/Heavy Commercial (CG/CH) to General Commercial (CG).

Approximately 0.230 acres located at 1212 N Chadbourne Street, being Miles Addition, Block 59, Lot 9A, within the City of San Angelo, Tom Green County, Texas as more particularly described and depicted in Exhibit "A" attached hereto and incorporated herein for all purposes.

SECTION 2: The Director of the Planning & Development Department, or his/her designee, is hereby directed to correct zoning district maps in the office of the Planning & Development

Department, to implement the zoning provision adopted herein, as further depicted on **Exhibit “A”** of this Ordinance.

SECTION 3: In all other respects, the use of the hereinabove described property shall be subject to all applicable regulations contained in Chapter 12 of the Code of Ordinances for the City of San Angelo, as amended.

SECTION 4. The remaining provisions of Chapter 12 of the Code of Ordinances of the City of San Angelo, Texas, not amended herein shall remain in full force and effect.

SECTION 5: The terms and provisions of this Ordinance shall be deemed to be severable in that, if any portion of this Ordinance shall be declared to be invalid, the same shall not affect the validity of the other provisions of this Ordinance.

SECTION 6: This Ordinance shall be effective on, from and after the date of adoption.

INTRODUCED on the **19th day of May, 2026**, and finally PASSED, APPROVED AND ADOPTED on this the **2nd day of June, 2026**.

THE CITY OF SAN ANGELO

Tom Thompson, Mayor

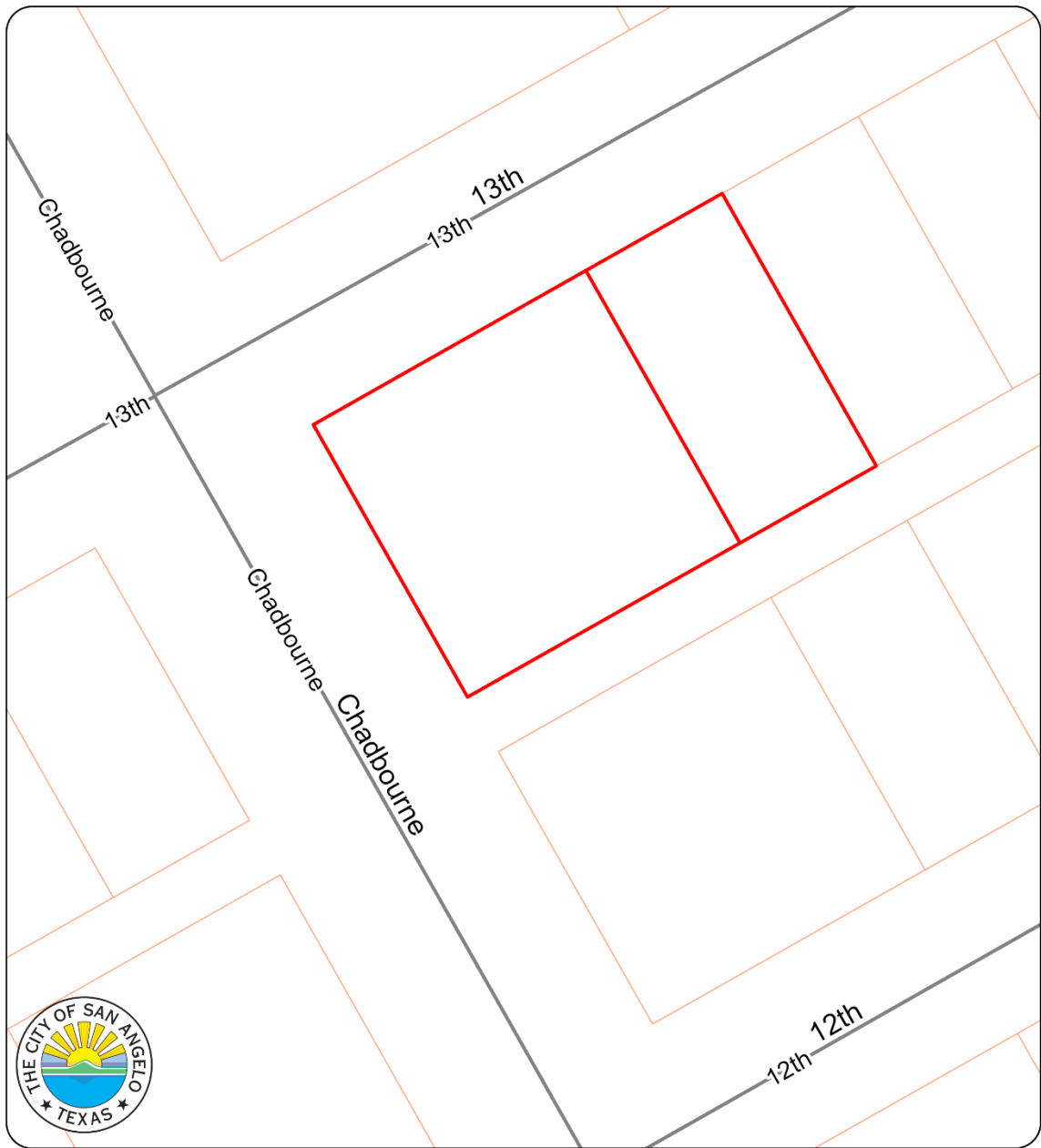
ATTEST:

APPROVED AS TO FORM:

Heather Stastny, City Clerk

Brandon Dyson, City Attorney

Exhibit “A”



Ordinance Map

Case: Z26-04 1212 N Chadbourne St

Council District: #3 - Harry Thomas

Neighborhood: Reagan

Scale: 0 0 0.01 0.01 0.02 0.02 Miles

Subject Property: —

Zone Change: CG/CH to CG

N



REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Aaron Vannoy, Director, Water Utilities

Meeting Date: June 2, 2026

Item type: Consent Item

Caption:

Second reading of an ordinance to adopt Data Center regulations for waste water discharge in the San Angelo Code of Ordinances by amending Chapter 11 "Utilities" Article 11.02 "Water and Sewer Systems," Division 3 "Sewer Service," Part III "Discharges Into Sewer System," Section 11.02.122 "Prohibited Discharges," by adding Subsection (c) "Data Center Discharges" (John Kaufman)

Staff Recommendation:

Adopt

Summary/History:

A city ordinance is needed to address the handling of wastewater discharges (domestic and cooling water) from a potential data center that is located within the city. This ordinance provides that all wastewater discharges be released directly to the city's sewer system for treatment at the city's water reclamation facility. It also requires that any waste cooling water be laboratory tested prior to release to the sewer system and that the Director of Water Utilities be notified when a discharge of cooling water is to occur. The Director of Water Utilities retains authority to establish discharge flow limits and make additional operational requirements to protect the city's sanitary sewer infrastructure.

Funding Source(s):

Financial Impact:

Other Information/Recommendation:

Attachments:

1. Adopting Ordinance Sewer Service - Utilities_a Adopting Ordinance Sewer Service - Utilities_a.docx

Presentation:

John Kaufman

Approvals/Reviews:

Aaron Vannoy
John Kaufman
Shane Kelton
Brandon Dyson
Heather Stastny

Created/Initiated
Approved
Approved
Approved
Final Approval

ORDINANCE 2026

AN ORDINANCE OF THE CITY OF SAN ANGELO TEXAS, AMENDING CHAPTER 11 "UTILITIES," ARTICLE 11.02 "WATER AND SEWER SYSTEMS," DIVISION 3 "SEWER SERVICE," PART III "DISCHARGES INTO SEWER SYSTEM," SECTION 11.02.122 "PROHIBITED DISCHARGES," BY ADDING SUBSECTION (C) "DATA CENTER DISCHARGES"; PROVIDING FOR SEVERABILITY; AND, PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, Data Centers are a rapidly growing industry throughout the country, and a Data Center project has been proposed within the boundaries and limits of the City of San Angelo; and

WHEREAS, Data Center projects pose unique issues related to zoning, water use, and wastewater discharge that impacts public health, safety, and welfare; and

WHEREAS, City Council finds it necessary to define and clarify the appropriate locations, development standards, and regulations to ensure that Data Centers are operated with reasonable safeguards in place for the community; and

WHEREAS, the City retained Westwood Professional Services as a consultant to assist with the development of a "Northeast Sector Master Plan" which includes development of Data Center regulations; and

WHEREAS, on February 17, 2026, City Council held public discussion, took comments, and provided feedback to staff and Westwood regarding proposed Data Center regulations; and

WHEREAS, on March 23, 2026, Planning Commission held public discussion, took comments, and provided feedback to staff regarding the proposed Data Center regulations; and

WHEREAS, on April 20, 2026, after notice and public hearing, the Planning Commission considered the proposed Data Center regulations and made a recommendation for approval to City Council; and

WHEREAS, on April 22, 2026, City Council held a special meeting solely for presentation, discussion, and public input related to the proposed Data Center project and related regulations; and

WHEREAS, on the 5th day of May, 2026, the City Council after having held a public hearing, considered public comment, and considered recommendations from City staff, City Council desires to amend Chapter 11 "Utilities," Article 11.02 "Water and Sewer Systems" Division 3 "Sewer Service" Part III "Discharges into the Sewer System," Section 11.02.122 "Prohibited Discharges," by adding Subsection (c) "Data Center Discharges".

NOW THEREFORE, BE IT ORDAINED BY THE CITY OF SAN ANGELO, TEXAS, THAT:

Section 1. Chapter 11 "Utilities," Article 11.02 "Water and Sewer Systems" Division 3 "Sewer Service" Part III "Discharges into the Sewer System," Section 11.02.122 "Prohibited Discharges," be amended by adding Subsection (c) "Data Center Discharges" as set out in **Exhibit "A"** attached hereto.

Section 2. The terms and provisions of this ordinance shall be deemed to be severable in that if any portion of this ordinance shall be declared to be invalid, the same shall not affect the validity of the other provisions of this ordinance.

Section 3. This Ordinance shall be effective on, from and after June 2, 2026.

INTRODUCED with public hearing the 19th day of May 2026, and finally PASSED this 2nd day of June, 2026.

THE CITY OF SAN ANGELO, TEXAS:

Tom Thompson, Mayor

ATTEST:

Heather Stastny, City Clerk

APPROVED AS TO CONTENT:

John Kaufman, Director of Water
Utilities

APPROVED AS TO FORM:

Brandon Dyson, City Attorney

Exhibit "A"

Sec 11.02.122 Prohibited Discharges

(c) Data Center Discharges

(1) For purposes of this section, a discharge event means any intentional release of treated cooling fluid to the sanitary sewer system. A planned discharge event means an intentional release associated with scheduled maintenance, loop replacement, or repair activity.

(2) An emergency discharge event means an unplanned release caused by equipment failure, system rupture, or a safety-related incident.

(3) Sampling and laboratory verification of treated discharge must be completed prior to each discharge event. Records of discharge volumes, analytical results, and discharge dates must be maintained for at least three years and provided to the Director of Water Utilities upon request.

(4) Planned discharge events require written notification to the Director of Water Utilities at least 72 hours prior to discharge.

(5) Emergency discharge events must be reported to the Director of Water Utilities within 4 hours of occurrence, and a written incident report must be submitted within 7 days detailing the discharge volume, analytical results, and corrective actions taken.

(6) The Director of Water Utilities retains authority to establish discharge flow limits and additional operational requirements necessary to protect the City's sanitary sewer infrastructure and ensure compliance with applicable industrial pretreatment standards.

(7) In addition to the above, must comply with all industrial discharge requirements within Chapter 11 "Utilities" of the San Angelo Code of Ordinances, as amended.

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Aaron Vannoy, Director, Water Utilities

Meeting Date: June 2, 2026

Item type: Consent Item

Caption:

Second reading of an ordinance to adopt Data Center regulations for water use in the San Angelo Code of Ordinances by amending Chapter 11 "Utilities," Article 11.02 "Water and Sewer Systems," Division 2 "Water Service," by adding Section 11.02.043 "Data Center" (John Kaufman)

Staff Recommendation:

Adopt

Summary/History:

A city ordinance is needed to address the water needs of a potential data center that would be located within the city limits. This ordinance requires that a data center employ a closed-loop cooling system with an initial fill not to exceed 8 gallons per square foot of gross building area and that the initial fill volume shall occur within 12 months of receiving a certificate of occupancy. It also addresses exempt water use for fire protection and landscaping and a protocol to follow if the water needs are exceeded. Requirements were added that: (1) cooling water usage be metered separately from other water usage at data centers, and (2) all approved and emergency exceedances of cooling water usage be reported in writing to the City Council within five (5) business days following the City Manager's approval of the exceedance, or within five (5) business days following the emergency exception report to the Water Utilities Director.

Funding Source(s):

Financial Impact:

Other Information/Recommendation:

Attachments:

- | | | |
|----|--|--|
| 1. | Adopting Ordinance Water Service - Utilities | Adopting Ordinance Water Service - Utilities |
| | (2)a1 | (2)a1.docx |

Presentation:

John Kaufman

Approvals/Reviews:

Aaron Vannoy

John Kaufman

Shane Kelton

Brandon Dyson

Heather Stastny

Created/Initiated

Approved

Approved

Approved

Final Approval

ORDINANCE 2026

AN ORDINANCE OF THE CITY OF SAN ANGELO TEXAS, AMENDING CHAPTER 11 "UTILITIES," ARTICLE 11.02 "WATER AND SEWER SYSTEMS," DIVISION 2 "WATER SERVICE," BY ADDING SECTION 11.02.043 "DATA CENTER"; PROVIDING FOR SEVERABILITY; AND, PROVIDING FOR AN EFFECTIVE DATE

WHEREAS, Data Centers are a rapidly growing industry throughout the country, and a Data Center project has been proposed within the boundaries and limits of the City of San Angelo; and

WHEREAS, Data Center projects pose unique issues related to zoning, water use, and wastewater discharge that impacts public health, safety, and welfare; and

WHEREAS, City Council finds it necessary to define and clarify the appropriate locations, development standards, and regulations to ensure that Data Centers are operated with reasonable safeguards in place for the community; and

WHEREAS, the City retained Westwood Professional Services as a consultant to assist with the development of a "Northeast Sector Master Plan" which includes development of Data Center regulations; and

WHEREAS, on February 17, 2026, City Council held public discussion, took comments, and provided feedback to staff and Westwood regarding proposed Data Center regulations; and

WHEREAS, on March 23, 2026, Planning Commission held public discussion, took comments, and provided feedback to staff regarding the proposed Data Center regulations; and

WHEREAS, on April 20, 2026, after notice and public hearing, the Planning Commission considered the proposed Data Center regulations and made a recommendation for approval to City Council; and

WHEREAS, on April 22, 2026, City Council held a special meeting solely for presentation, discussion, and public input related to the proposed Data Center project and related regulations; and

WHEREAS, on the 5th day of May, 2026, the City Council after having held a public hearing, considered public comment, and considered recommendations from City staff, City Council desires to amend Chapter 11 "Utilities," Article 11.02 "Water and Sewer Systems," Division 2 "Water Service," by adding Section 11.02.043 "Data Center".

NOW THEREFORE, BE IT ORDAINED BY THE CITY OF SAN ANGELO, TEXAS, THAT:

Section 1. Chapter 11 "Utilities," Article 11.02 "Water and Sewer Systems," Division 2 "Water Service," be amended by adding Section 11.02.043 "Data Center" as set out in Exhibit "A" attached hereto.

Section 2. The terms and provisions of this ordinance shall be deemed to be severable in that if any portion of this ordinance shall be declared to be invalid, the same shall not affect the validity of the other provisions of this ordinance.

Section 3. This Ordinance shall be effective on, from and after June 2, 2026.

INTRODUCED with public hearing the 19th day of May 2026, and finally PASSED this 2nd day of June, 2026.

THE CITY OF SAN ANGELO, TEXAS:

Tom Thompson, Mayor

ATTEST:

Heather Stastny, City Clerk

APPROVED AS TO CONTENT:

John Kaufman, Director of Water
Utilities

APPROVED AS TO FORM:

Brandon Dyson, City Attorney

Exhibit “A”

Section 11.02.43 Data Center

1. For Purposes of this article the definition of Data Center shall be the same definition under Chapter 12 – “Planning and Development,” Exhibit A “Zoning Ordinance,” Article 4 “Specific Use Standards,” Section 430 “Data Center”.
2. Cooling System Requirements
 - a. All Data Center facilities shall employ closed-loop cooling systems, or similar cooling technology, which minimizes water use, and eliminates the need for continuous withdrawals from the City’s public water supply for heat rejection.
 - b. Cooling System Water Allowances
 - i. Use of potable water from the City’s public water supply for cooling system purposes shall be limited to the following categories:
 - a. Initial Fill: Initial cooling system fill shall not exceed 8.0 gallons per square foot of Gross Building Area (as defined in the approved building permit) for each Data Center building. Initial fill shall occur within 12 months of the building receiving a Certificate of Occupancy.
 - b. Scheduled Maintenance Refill: A full cooling system drain and refill, not to exceed the initial fill volume, may occur for each Data Center building at intervals no more frequent than once every three (3) years. The operator shall provide the City Utilities Director with 30 days’ written notice prior to a scheduled maintenance refill. Draining shall comply with all TCEQ requirements and other applicable law.
 - c. Annual Makeup Water: Routine cooling system makeup water (to replace minor losses from valve packing, gasket weepage, and maintenance drain-downs) shall not exceed three percent (6%) of the total installed cooling loop volume per Data Center building per calendar year.
 - d. Cooling water usage shall be metered separately from other water usage at Data Center facilities.
 - c. Additional Exempt Water Uses
 - i. The following water uses are not subject to the limits described in subsection (b):
 - a. Fire suppression system fill, testing, and maintenance per NFPA 13, NFPA 75, and applicable fire code requirements.
 - b. Construction-phase temporary water service for dust control, concrete curing, and hydrostatic testing.
 - c. Site landscaping limited to drought-tolerant (Xeriscape) plantings consistent with the City’s Water Conservation Plan.
 - d. Reclaimed or recycled water obtained from the City’s reclaimed water system (when available) for any authorized purpose.
 - d. Exceedance Protocol
 - i. If a Data Center operator anticipates that cooling water usage will exceed the allowances in subsection (b) due to equipment failure, emergency repair, or other operational necessity:
 - a. Notification: The operator shall notify the City Water Utilities Director in writing within 48 hours of identifying the anticipated

exceedance, stating the cause, estimated additional volume, and expected duration.

- b. Approval: The City Manager (or designee) shall approve or deny the request within five (5) business days. Approval shall not be unreasonably withheld when the exceedance results from equipment failure, manufacturer-recommended maintenance, or system safety requirements documented by the operator.
- c. Emergency Exception: In the event of an equipment failure or coolant leak posing an imminent risk to facility equipment or personnel safety, the operator is authorized to draw water as needed to stabilize the facility without prior approval, provided that written notice and documentation are submitted to the City Water Utilities Director within 72 hours.
- d. All approved and emergency exceedances shall be reported in writing to the City Council within five (5) business days following the City Manager's approval of the exceedance, or within (5) business days following the emergency exception report to the Water Utilities Director.

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Tina Dierschke, Finance Director, City Manager's Office

Meeting Date: June 2, 2026

Item type: Regular Item

Caption:

Presentation and discussion of a feasibility study for an indoor sports complex (Presentation made by Synergy Sports CEO Jason Boudrie)

Staff Recommendation:

Direction from Council

Summary/History:

The San Angelo Chamber of Commerce has initiated a feasibility study for an indoor sports complex and will have the consultant, Jason Boudrie of Synergy Sports Global, present the findings and results.

Funding Source(s):

Financial Impact:

Other Information/Recommendation:

Attachments:

- | | | |
|----|--|--|
| 1. | Feasibility Study Presentation-City Council-06022026 | Feasibility Study Presentation-City Council-06022026.pdf |
|----|--|--|

Presentation:

Approvals/Reviews:

Tina Dierschke
Brandon Dyson
Heather Stastny

Created/Initiated
Approved
Final Approval

San Angelo,
Texas

Sports Feasibility Presentation

June 2, 2026



Executive Summary

- It was determined that an 8-10-court indoor facility located within proximity of hotels, retail, and family entertainment is feasible, viable, and can contribute significantly to regional sports tourism as well as be a quality-of-life enhancement to the community
- Demographics and socioeconomics support the development
- Opportunities to host local, regional, and national tournaments, expand opportunities for the local community, and be an economic catalyst for ancillary development (i.e. hotel, hospitality, retail, etc.)
- Through naming rights, sponsorships, and operating revenue, the facility can support its own operating expenses and produce significant economic impact, hotel room night stays, and total visitors
- Recommendation is to partner with a private operator to manage the complex
- Estimated Cost: \$40M- \$60M

Demographic Analysis (60, 120, and 300- Miles)

2020 Population:	142,512
2024 Population:	143,811
2029 Population:	144,662
Annual Population Growth 2024 - 2029	0.12%

2020 Population:	672,612
2024 Population:	681,420
2029 Population:	689,353
Annual Population Growth 2024 - 2029	0.23%

2020 Population:	17,564,861
2024 Population:	18,697,783
2029 Population:	19,897,971
Annual Population Growth 2024 - 2029	1.25%

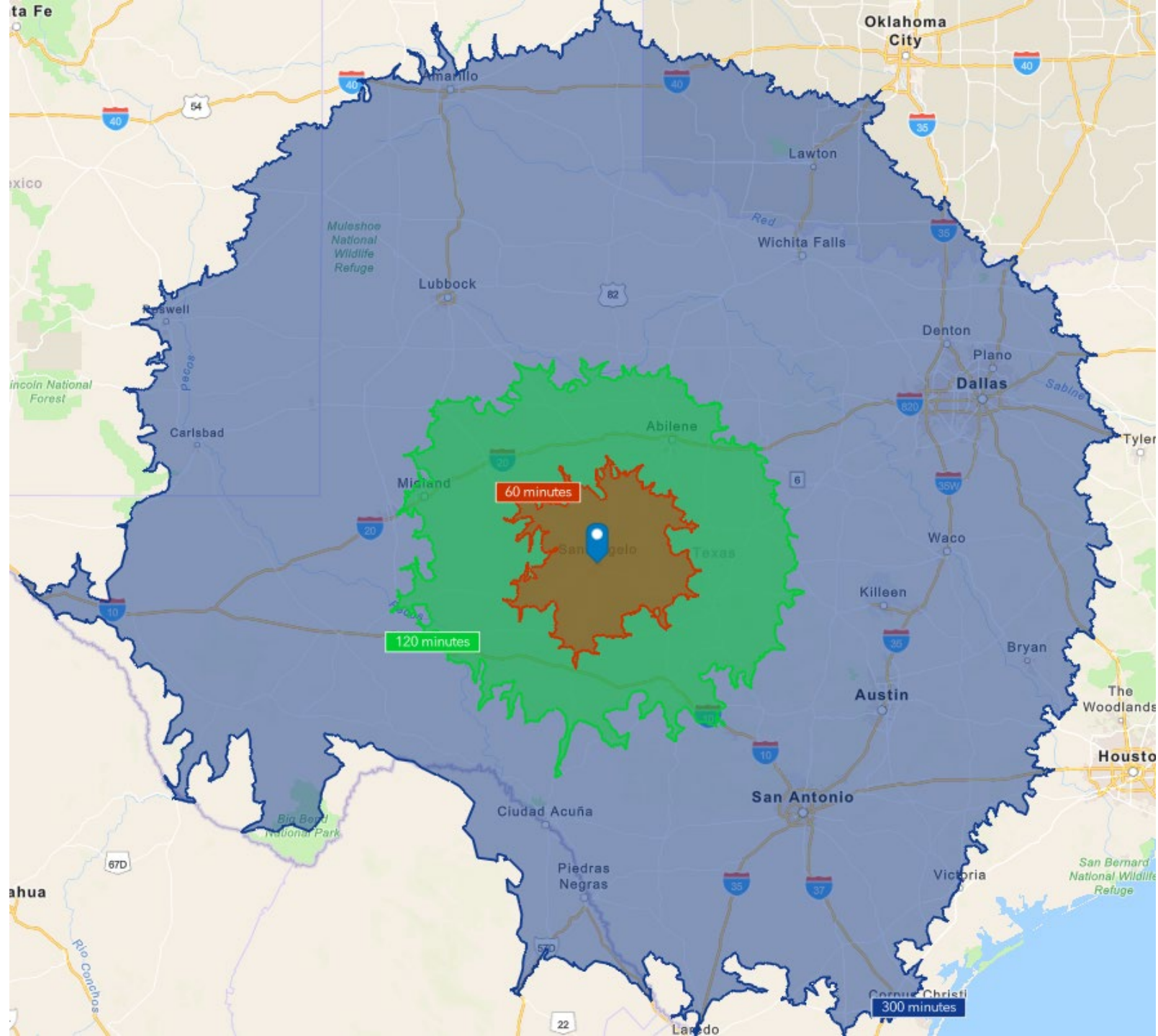
Sport Participation Rates by Radius

- **Local population likely will not be challenged to support Monday- Thursday operations of a new complex**
 - 6,147 youth participated in basketball (100 MPI)
 - 3,053 youth participated in volleyball (110 MPI)
 - 2,700 people participated in pickleball (97MPI)
 - Median Household Income is 20% lower than the national average
- **Sufficient sub-regional population to support a collection of new sports opportunities**
 - 28,924 youth participated in basketball (101 MPI)
 - 14,171 youth participated in volleyball (109 MPI)
 - 12,340 people participated in pickleball (95 MPI)
 - Secondary sports follow the same participation rate trends
- **Sufficient regional population to support a sports-tourism focused facility**
 - 889,021 youth participated in basketball (113 MPI)
 - 419,485 youth participated in volleyball (117 MPI)
 - 365,847 people participated in pickleball (102 MPI)
 - Secondary sports follow the same participation rate trends

Facility Benchmarks

FACILITY TYPE	ANCHOR	TOURNAMENT FRIENDLY
Flat Fields	Minimum 16 fields	8-15 fields
Diamonds	Minimum 12 fields	8-11 fields
Courts	Minimum 8 Basketball/16 Volleyball	4 Basketball/8 Volleyball
Indoor Track	200 meter/6 lanes/banked	200 meter/6 lanes
Pickleball Courts	40-60 Courts (National)	8-16 Courts (Local/State) 24-32 Courts (Regional)

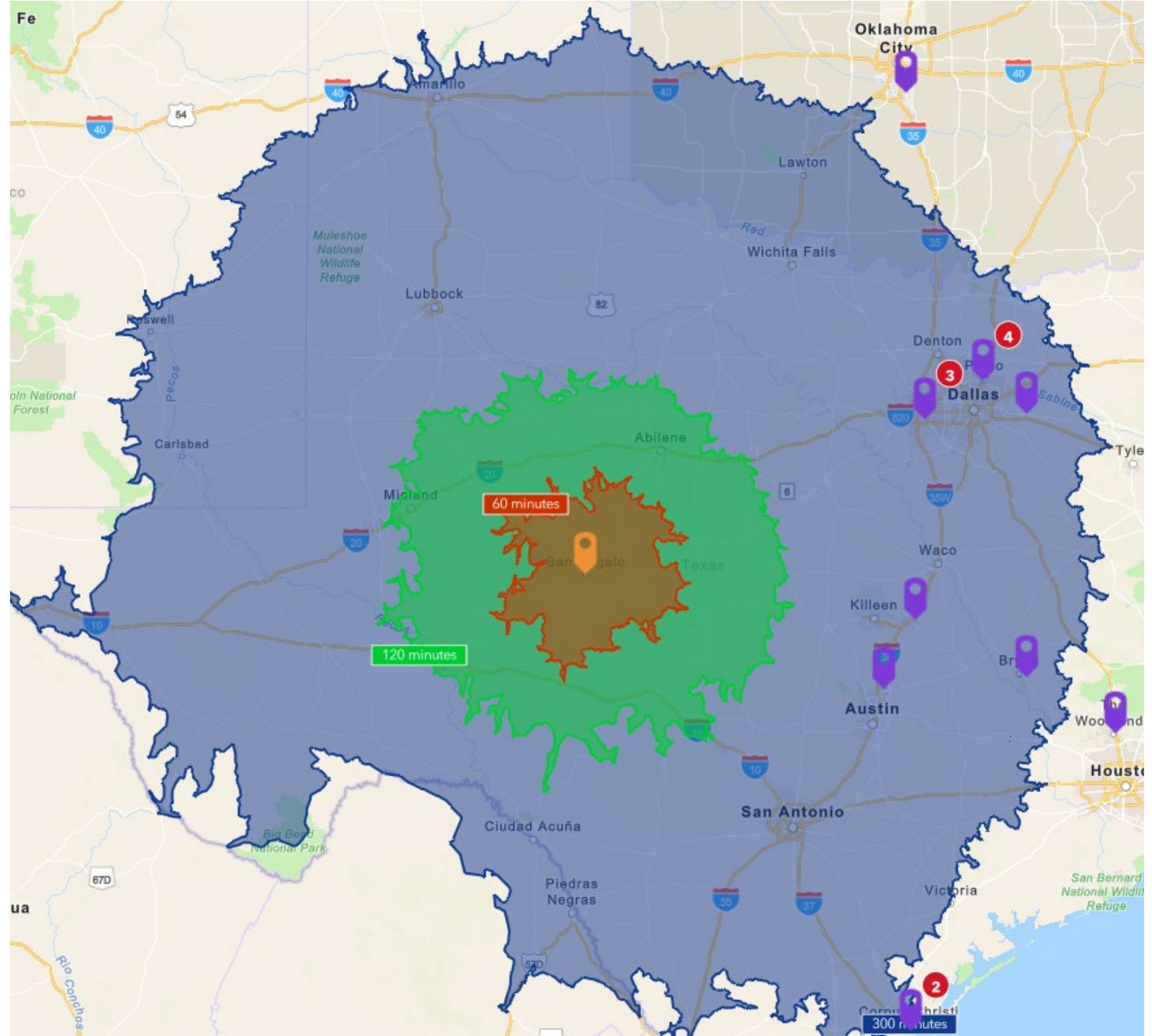
Drivetime Reach



Regional Competitors

Flat Fields

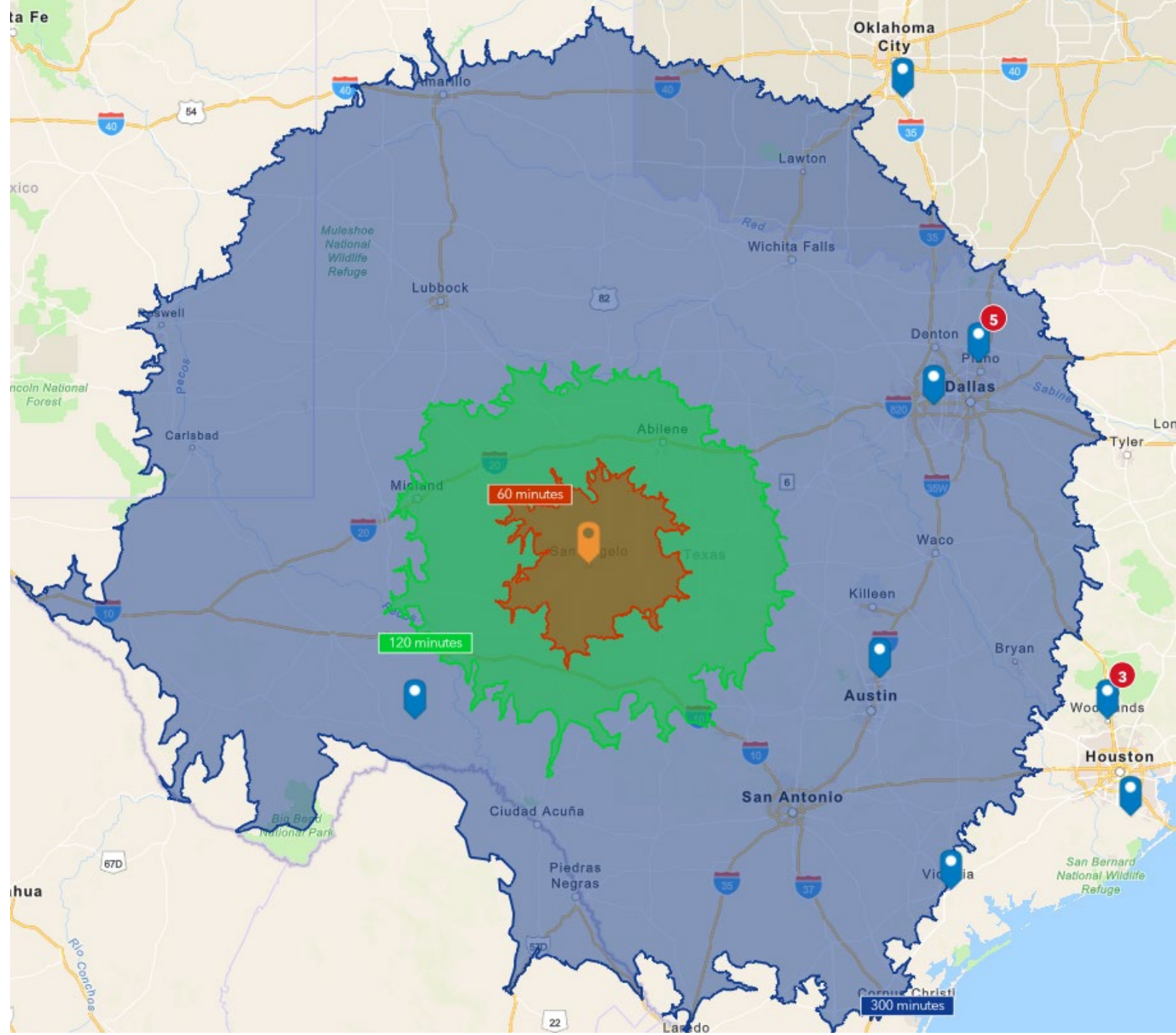
(Not Recommended; land constraints/ oversaturation to the East)



Regional Competitors

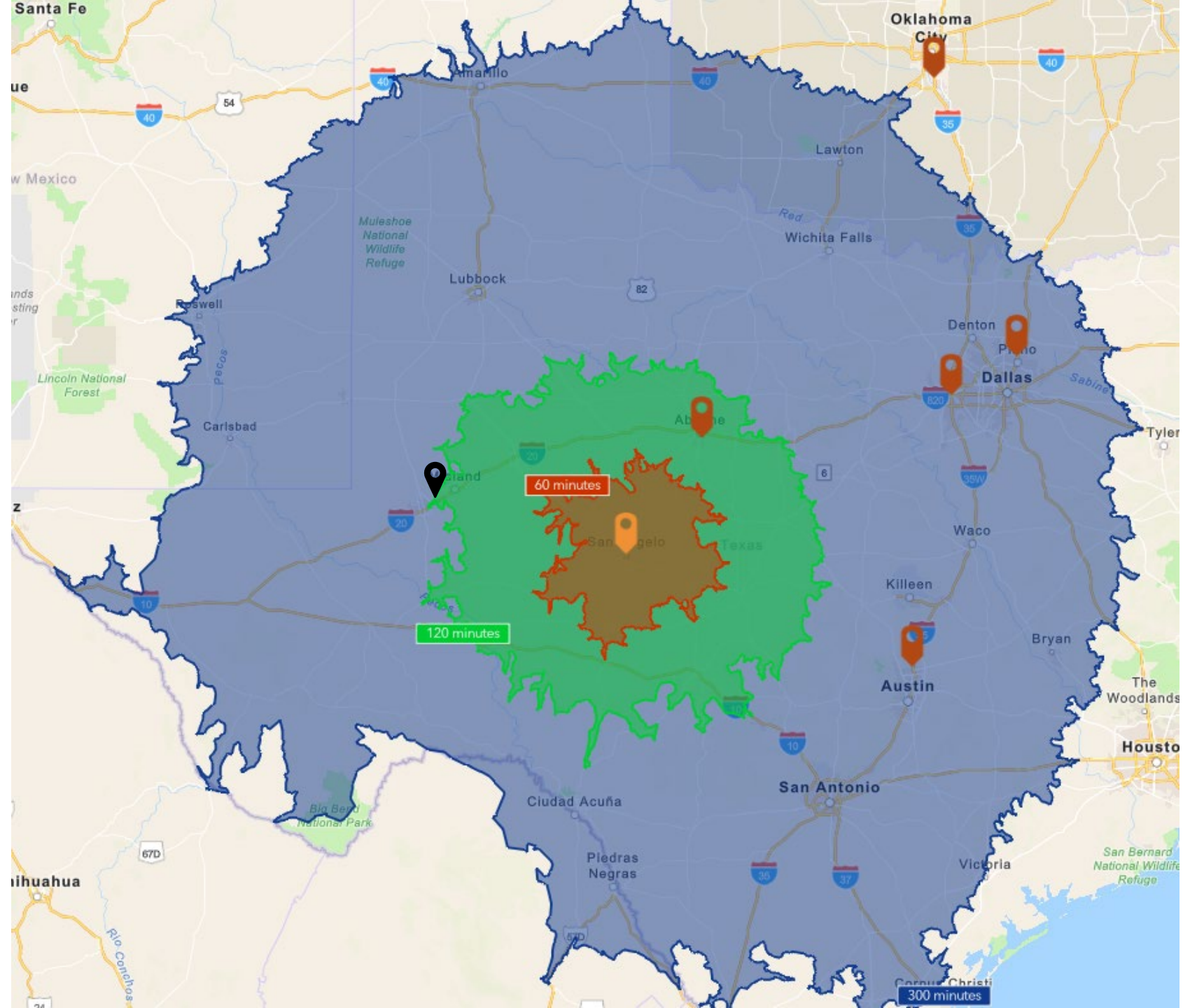
Diamonds

(Not Recommended; land constraints and saturation to the East)

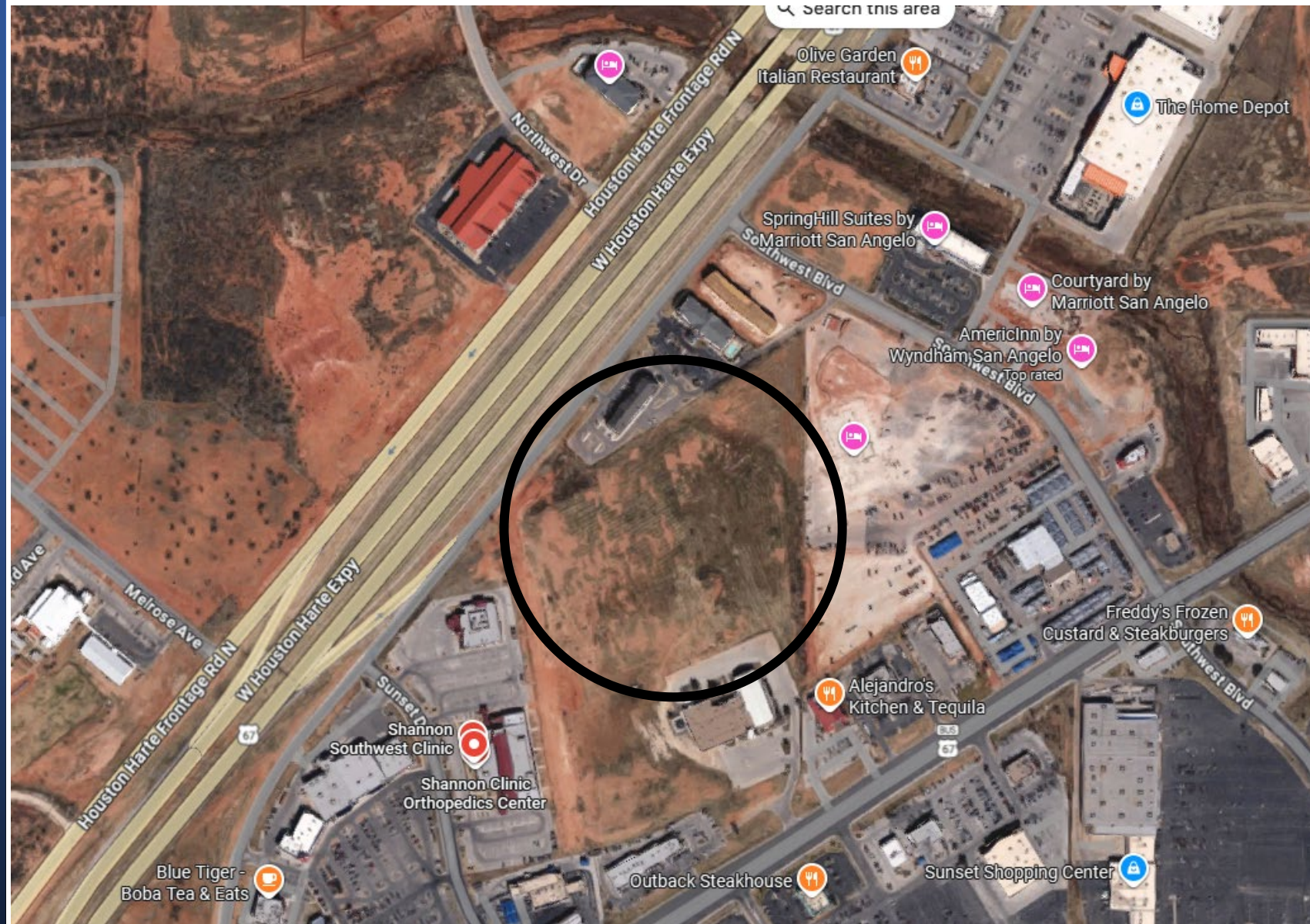


Regional Competitors

Indoor
(RECOMMENDED)



Proposed Site



San Angelo, Texas Sports Development

Site Concept

- Proposed Amenities
- 01. Indoor Sports & Event Center
 - 02. Entry Plaza
 - 03. Playground and Splashpad
 - 04. Bus Parking
 - 05. Bus Drop-pff
 - 06. Loading
 - 07. Parking

Site Plan

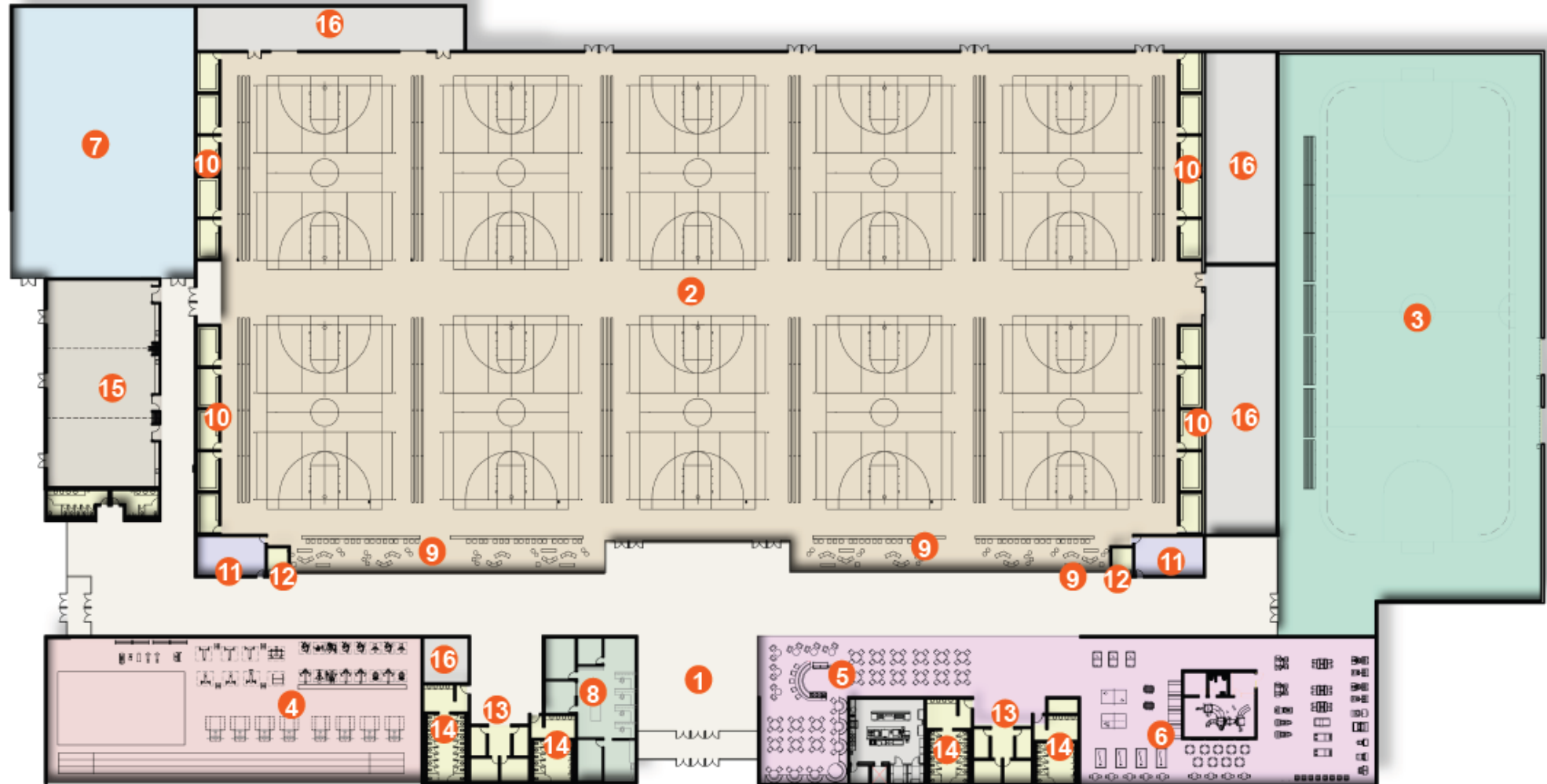


Conceptual Exterior View



Indoor Facility- Conceptual Floorplan

1. Entry Lobby
2. Court Sport Event Space
3. Turf Fieldhouse
4. Performance Training
5. Restaurant / Food Court
6. Family Entertainment Center
7. Orthopedic Clinic
8. Staff Offices
9. Seating / Viewing Areas
10. Team Rooms- 11. Sensory Room
- 12. Assistive Change / Restrooms
- 13. Gender Equitable Restrooms
- 14. Restrooms
- 15. Multipurpose Rooms
- 16. Storage / Mechanical Areas



Indoor Facility- Conceptual Floorplan



Revised Benchmarking

FACILITY TYPE	ANCHOR	TOURNAMENT FRIENDLY
Flat Fields	Minimum 16 fields	8-15 fields
Diamonds	Minimum 12 fields	8-11 fields
Hardwood Courts	Minimum 8 Basketball/16 Volleyball	4 Basketball/8 Volleyball
Indoor Track	200 meter/6 lanes/banked	200 meter/6 lanes
Pickleball Courts	40-60 Courts (National)	8-16 Courts (Local/State) 24-32 Courts (Regional)

Sports Complex- Conceptual Financial Model- Conservative

Court Surface- LOW NAMING RIGHTS MODEL											Total
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	
Sponsorship / Advertising	\$150,000	\$172,500	\$181,125	\$186,559	\$192,156	\$197,920	\$203,858	\$209,974	\$216,273	\$222,761	\$1,933,124
Gate / Merch	\$274,160	\$282,385	\$290,856	\$299,582	\$308,569	\$317,827	\$327,361	\$337,182	\$347,298	\$357,717	\$3,142,937
Tenant	\$308,000	\$317,240	\$326,757	\$336,560	\$346,657	\$357,056	\$367,768	\$378,801	\$390,165	\$401,870	\$3,530,875
Court Surface	\$1,886,425	\$1,943,018	\$2,001,308	\$2,061,348	\$2,123,188	\$2,186,884	\$2,252,490	\$2,320,065	\$2,389,667	\$2,461,357	\$21,625,749
Gross Potential Income	\$2,618,585	\$2,715,143	\$2,800,047	\$2,884,048	\$2,970,570	\$3,059,687	\$3,151,477	\$3,246,022	\$3,343,402	\$3,443,704	\$27,089,748
Buffer	8%	6%	6%	4%	4%	4%	2%	2%	1%	0%	4%
Effective Gross Income	\$2,409,098	\$2,552,234	\$2,632,044	\$2,768,686	\$2,851,747	\$2,937,299	\$3,088,448	\$3,181,101	\$3,309,968	\$3,443,704	\$26,087,427
Insurances	\$240,000	\$244,800	\$249,696	\$254,690	\$259,784	\$264,979	\$264,979	\$264,979	\$264,979	\$264,979	\$2,573,867
Utilities Electric / Gas / Water	\$195,000	\$198,900	\$202,878	\$206,936	\$211,074	\$215,296	\$215,296	\$215,296	\$215,296	\$215,296	\$2,091,267
Repairs & Maintenance	\$50,000	\$51,000	\$52,020	\$53,060	\$54,122	\$55,204	\$55,204	\$55,204	\$55,204	\$55,204	\$536,222
Landscaping	\$15,000	\$15,300	\$15,606	\$15,918	\$16,236	\$16,561	\$16,561	\$16,561	\$16,561	\$16,561	\$160,867
Janitorial & Trash Disposal	\$45,000	\$45,900	\$46,818	\$47,754	\$48,709	\$49,684	\$49,684	\$49,684	\$49,684	\$49,684	\$482,600
Management Fee (6%)	\$144,546	\$153,134	\$157,923	\$166,121	\$171,105	\$176,238	\$176,238	\$176,238	\$176,238	\$176,238	\$1,674,018
Payroll and Benefits (3% Bump)	\$350,000	\$360,500	\$371,315	\$382,454	\$393,928	\$405,746	\$405,746	\$405,746	\$405,746	\$405,746	\$3,886,927
Marketing	\$25,000	\$25,500	\$26,010	\$26,530	\$27,061	\$27,602	\$27,602	\$27,602	\$27,602	\$27,602	\$268,111
Professional Fees	\$17,500	\$17,850	\$18,207	\$18,571	\$18,943	\$19,321	\$19,321	\$19,321	\$19,321	\$19,321	\$187,678
General & Admin.	\$15,000	\$15,300	\$15,606	\$15,918	\$16,236	\$16,561	\$16,561	\$16,561	\$16,561	\$16,561	\$160,867
Other Expenses	\$20,000	\$20,400	\$20,808	\$21,224	\$21,649	\$22,082	\$22,082	\$22,082	\$22,082	\$22,082	\$214,489
Total Operating Expenses	\$1,117,046	\$1,148,584	\$1,176,887	\$1,209,178	\$1,238,847	\$1,269,274	\$1,269,274	\$1,269,274	\$1,269,274	\$1,269,274	\$12,236,912
Net Operating Income	\$1,292,052	\$1,403,650	\$1,455,157	\$1,559,509	\$1,612,900	\$1,668,025	\$1,819,174	\$1,911,827	\$2,040,694	\$2,174,430	\$13,850,515
Reserves 10%	\$129,205	\$140,365	\$145,516	\$155,951	\$161,290	\$166,803	\$181,917	\$191,183	\$204,069	\$217,443	\$1,693,742
NOI Less Reserve	\$1,162,847	\$1,263,285	\$1,309,642	\$1,403,558	\$1,451,610	\$1,506,735	\$1,652,371	\$1,729,910	\$1,849,511	\$1,970,361	\$13,850,515
Naming Rights/ Philanthropy	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$5,000,000
Debt Service (10 courts; no land cost; \$50M)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$36,000,000)
HOT Revenue (based on 50% of the projected 7% HOT rate)	\$502,425	\$553,924	\$610,701	\$673,298	\$742,311	\$818,397	\$902,283	\$994,767	\$1,096,731	\$1,209,146	\$8,103,981
Net Income	(\$1,434,728)	(\$1,282,791)	(\$1,179,658)	(\$1,023,145)	(\$906,079)	(\$774,868)	(\$545,346)	(\$375,323)	(\$153,758)	\$79,506	(\$7,596,189)

Sports Complex- Conceptual Financial Model- Expected

Court Surface- MID NAMING RIGHTS MODEL											
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Sponsorship / Advertising	\$150,000	\$172,500	\$181,125	\$186,559	\$192,156	\$197,920	\$203,858	\$209,974	\$216,273	\$222,761	\$1,933,124
Gate / Merch	\$274,160	\$282,385	\$290,856	\$299,582	\$308,569	\$317,827	\$327,361	\$337,182	\$347,298	\$357,717	\$3,142,937
Tenant	\$308,000	\$317,240	\$326,757	\$336,560	\$346,657	\$357,056	\$367,768	\$378,801	\$390,165	\$401,870	\$3,530,875
Court Surface	\$1,886,425	\$1,943,018	\$2,001,308	\$2,061,348	\$2,123,188	\$2,186,884	\$2,252,490	\$2,320,065	\$2,389,667	\$2,461,357	\$21,625,749
Gross Potential Income	\$2,618,585	\$2,715,143	\$2,800,047	\$2,884,048	\$2,970,570	\$3,059,687	\$3,151,477	\$3,246,022	\$3,343,402	\$3,443,704	\$27,089,748
Buffer	8%	6%	6%	4%	4%	4%	2%	2%	1%	0%	4%
Effective Gross Income	\$2,409,098	\$2,552,234	\$2,632,044	\$2,768,686	\$2,851,747	\$2,937,299	\$3,088,448	\$3,181,101	\$3,309,968	\$3,443,704	\$26,087,427
Insurances	\$240,000	\$244,800	\$249,696	\$254,690	\$259,784	\$264,979	\$264,979	\$264,979	\$264,979	\$264,979	\$2,573,867
Utilities Electric / Gas / Water	\$195,000	\$198,900	\$202,878	\$206,936	\$211,074	\$215,296	\$215,296	\$215,296	\$215,296	\$215,296	\$2,091,267
Repairs & Maintenance	\$50,000	\$51,000	\$52,020	\$53,060	\$54,122	\$55,204	\$55,204	\$55,204	\$55,204	\$55,204	\$536,222
Landscaping	\$15,000	\$15,300	\$15,606	\$15,918	\$16,236	\$16,561	\$16,561	\$16,561	\$16,561	\$16,561	\$160,867
Janitorial & Trash Disposal	\$45,000	\$45,900	\$46,818	\$47,754	\$48,709	\$49,684	\$49,684	\$49,684	\$49,684	\$49,684	\$482,600
Management Fee (6%)	\$144,546	\$153,134	\$157,923	\$166,121	\$171,105	\$176,238	\$176,238	\$176,238	\$176,238	\$176,238	\$1,674,018
Payroll and Benefits (3% Bump)	\$350,000	\$360,500	\$371,315	\$382,454	\$393,928	\$405,746	\$405,746	\$405,746	\$405,746	\$405,746	\$3,886,927
Marketing	\$25,000	\$25,500	\$26,010	\$26,530	\$27,061	\$27,602	\$27,602	\$27,602	\$27,602	\$27,602	\$268,111
Professional Fees	\$17,500	\$17,850	\$18,207	\$18,571	\$18,943	\$19,321	\$19,321	\$19,321	\$19,321	\$19,321	\$187,678
General & Admin.	\$15,000	\$15,300	\$15,606	\$15,918	\$16,236	\$16,561	\$16,561	\$16,561	\$16,561	\$16,561	\$160,867
Other Expenses	\$20,000	\$20,400	\$20,808	\$21,224	\$21,649	\$22,082	\$22,082	\$22,082	\$22,082	\$22,082	\$214,489
Total Operating Expenses	\$1,117,046	\$1,148,584	\$1,176,887	\$1,209,178	\$1,238,847	\$1,269,274	\$1,269,274	\$1,269,274	\$1,269,274	\$1,269,274	\$12,236,912
Net Operating Income	\$1,292,052	\$1,403,650	\$1,455,157	\$1,559,509	\$1,612,900	\$1,668,025	\$1,819,174	\$1,911,827	\$2,040,694	\$2,174,430	\$13,850,515
Reserves 10%	\$129,205	\$140,365	\$145,516	\$155,951	\$161,290	\$166,803	\$181,917	\$191,183	\$204,069	\$217,443	\$1,693,742
NOI Less Reserve	\$1,162,847	\$1,263,285	\$1,309,642	\$1,403,558	\$1,451,610	\$1,506,735	\$1,652,371	\$1,729,910	\$1,849,511	\$1,970,361	\$13,850,515
Naming Rights/ Philanthopy	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$10,000,000
Debt Service (10 courts; no land cost; \$50M)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$36,000,000)
HOT Revenue (based on 50% of the projected 7% HOT rate)	\$502,425	\$553,924	\$610,701	\$673,298	\$742,311	\$818,397	\$902,283	\$994,767	\$1,096,731	\$1,209,146	\$8,103,981
Net Income	(\$934,728)	(\$782,791)	(\$679,658)	(\$523,145)	(\$406,079)	(\$274,868)	(\$45,346)	\$124,677	\$346,242	\$579,506	(\$2,596,189)

Sports Complex- Conceptual Financial Model- High Performing

Court Surface- HIGH NAMING RIGHTS MODEL											
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10	Total
Sponsorship / Advertising	\$150,000	\$172,500	\$181,125	\$186,559	\$192,156	\$197,920	\$203,858	\$209,974	\$216,273	\$222,761	\$1,933,124
Gate / Merch	\$274,160	\$282,385	\$290,856	\$299,582	\$308,569	\$317,827	\$327,361	\$337,182	\$347,298	\$357,717	\$3,142,937
Tenant	\$308,000	\$317,240	\$326,757	\$336,560	\$346,657	\$357,056	\$367,768	\$378,801	\$390,165	\$401,870	\$3,530,875
Court Surface	\$1,886,425	\$1,943,018	\$2,001,308	\$2,061,348	\$2,123,188	\$2,186,884	\$2,252,490	\$2,320,065	\$2,389,667	\$2,461,357	\$21,625,749
Gross Potential Income	\$2,618,585	\$2,715,143	\$2,800,047	\$2,884,048	\$2,970,570	\$3,059,687	\$3,151,477	\$3,246,022	\$3,343,402	\$3,443,704	\$27,089,748
Vacancy	8%	6%	6%	4%	4%	4%	2%	2%	1%	0%	4%
Effective Gross Income	\$2,409,098	\$2,552,234	\$2,632,044	\$2,768,686	\$2,851,747	\$2,937,299	\$3,088,448	\$3,181,101	\$3,309,968	\$3,443,704	\$26,087,427
Insurances	\$240,000	\$244,800	\$249,696	\$254,690	\$259,784	\$264,979	\$264,979	\$264,979	\$264,979	\$264,979	\$2,573,867
Utilities Electric / Gas / Water	\$195,000	\$198,900	\$202,878	\$206,936	\$211,074	\$215,296	\$215,296	\$215,296	\$215,296	\$215,296	\$2,091,267
Repairs & Maintenance	\$50,000	\$51,000	\$52,020	\$53,060	\$54,122	\$55,204	\$55,204	\$55,204	\$55,204	\$55,204	\$536,222
Landscaping	\$15,000	\$15,300	\$15,606	\$15,918	\$16,236	\$16,561	\$16,561	\$16,561	\$16,561	\$16,561	\$160,867
Janitorial & Trash Disposal	\$45,000	\$45,900	\$46,818	\$47,754	\$48,709	\$49,684	\$49,684	\$49,684	\$49,684	\$49,684	\$482,600
Management Fee (6%)	\$144,546	\$153,134	\$157,923	\$166,121	\$171,105	\$176,238	\$176,238	\$176,238	\$176,238	\$176,238	\$1,674,018
Payroll and Benefits (3% Bump)	\$350,000	\$360,500	\$371,315	\$382,454	\$393,928	\$405,746	\$405,746	\$405,746	\$405,746	\$405,746	\$3,886,927
Marketing	\$25,000	\$25,500	\$26,010	\$26,530	\$27,061	\$27,602	\$27,602	\$27,602	\$27,602	\$27,602	\$268,111
Professional Fees	\$17,500	\$17,850	\$18,207	\$18,571	\$18,943	\$19,321	\$19,321	\$19,321	\$19,321	\$19,321	\$187,678
General & Admin.	\$15,000	\$15,300	\$15,606	\$15,918	\$16,236	\$16,561	\$16,561	\$16,561	\$16,561	\$16,561	\$160,867
Other Expenses	\$20,000	\$20,400	\$20,808	\$21,224	\$21,649	\$22,082	\$22,082	\$22,082	\$22,082	\$22,082	\$214,489
Total Operating Expenses	\$1,117,046	\$1,148,584	\$1,176,887	\$1,209,178	\$1,238,847	\$1,269,274	\$1,269,274	\$1,269,274	\$1,269,274	\$1,269,274	\$12,236,912
Net Operating Income	\$1,292,052	\$1,403,650	\$1,455,157	\$1,559,509	\$1,612,900	\$1,668,025	\$1,819,174	\$1,911,827	\$2,040,694	\$2,174,430	\$13,850,515
Reserves 10%	\$129,205	\$140,365	\$145,516	\$155,951	\$161,290	\$166,803	\$181,917	\$191,183	\$204,069	\$217,443	\$1,693,742
NOI Less Reserve	\$1,162,847	\$1,263,285	\$1,309,642	\$1,403,558	\$1,451,610	\$1,506,735	\$1,652,371	\$1,729,910	\$1,849,511	\$1,970,361	\$13,850,515
Naming Rights/ Philanthropy	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$15,000,000
Debt Service (10 courts; no land cost; \$50M)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$3,600,000)	(\$36,000,000)
HOT Revenue (based on 50% of the projected 7% HOT rate)	\$502,425	\$553,924	\$610,701	\$673,298	\$742,311	\$818,397	\$902,283	\$994,767	\$1,096,731	\$1,209,146	\$8,103,981
Net Income	(\$434,728)	(\$282,791)	(\$179,658)	(\$23,145)	\$93,921	\$225,132	\$454,654	\$624,677	\$846,242	\$1,079,506	\$2,403,811

Economic Impact

Economic Impact		Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Non-Local Participant Day Units		157,609	165,489	173,764	182,452	191,574	201,153	211,211	221,771	232,860	244,503
Non-Local Spectator Day Units		204,891	215,136	225,893	237,187	249,047	261,499	274,574	288,303	302,718	317,854
Total Non-Local Units		362,500	380,625	399,656	419,639	440,621	462,652	485,785	510,074	535,578	562,356
Average Daily Spending Per Non-Local Person		\$ 40.00	\$ 42.00	\$ 44.10	\$ 46.31	\$ 48.62	\$ 51.05	\$ 53.60	\$ 56.28	\$ 59.10	\$ 62.05
Direct Spending by Type:											
Hotel	50%	\$ 7,250,000	\$ 7,993,125	\$ 8,812,420	\$ 9,715,693	\$10,711,552	\$ 11,809,486	\$ 13,019,958	\$ 14,354,504	\$ 15,825,841	\$ 17,447,989
Restaurant / Meals	30%	\$ 4,350,000	\$ 4,795,875	\$ 5,287,452	\$ 5,829,416	\$ 6,426,931	\$ 7,085,692	\$ 7,811,975	\$ 8,612,702	\$ 9,495,504	\$ 10,468,794
Entertainment/Leisure	10%	\$ 1,450,000	\$ 1,598,625	\$ 1,762,484	\$ 1,943,139	\$ 2,142,310	\$ 2,361,897	\$ 2,603,992	\$ 2,870,901	\$ 3,165,168	\$ 3,489,598
Retail/Shopping	7%	\$ 1,015,000	\$ 1,119,038	\$ 1,233,739	\$ 1,360,197	\$ 1,499,617	\$ 1,653,328	\$ 1,822,794	\$ 2,009,631	\$ 2,215,618	\$ 2,442,719
Transportation	1%	\$ 145,000	\$ 159,863	\$ 176,248	\$ 194,314	\$ 214,231	\$ 236,190	\$ 260,399	\$ 287,090	\$ 316,517	\$ 348,960
Other	2%	\$ 290,000	\$ 319,725	\$ 352,497	\$ 388,628	\$ 428,462	\$ 472,379	\$ 520,798	\$ 574,180	\$ 633,034	\$ 697,920
Total	100%	\$ 14,500,000	\$ 15,986,250	\$ 17,624,841	\$ 19,431,387	\$ 21,423,104	\$ 23,618,972	\$ 26,039,917	\$ 28,709,008	\$ 31,651,682	\$ 34,895,979
Annual Direct Economic Impact		\$ 14,500,000	\$ 15,986,250	\$ 17,624,841	\$ 19,431,387	\$ 21,423,104	\$ 23,618,972	\$ 26,039,917	\$ 28,709,008	\$ 31,651,682	\$ 34,895,979
Indirect/Induced Spending	63%	\$ 9,135,000	\$ 10,071,338	\$ 11,103,650	\$ 12,241,774	\$ 13,496,555	\$ 14,879,952	\$ 16,405,148	\$ 18,086,675	\$ 19,940,559	\$ 21,984,467
Total Annual Economic Impact		\$ 23,635,000	\$ 26,057,588	\$ 28,728,490	\$ 31,673,160	\$ 34,919,659	\$ 38,498,925	\$ 42,445,064	\$ 46,795,683	\$ 51,592,241	\$ 56,880,446
San Angelo City Sales Tax	1%	\$ 143,550	\$ 158,264	\$ 174,486	\$ 192,371	\$ 212,089	\$ 233,828	\$ 257,795	\$ 284,219	\$ 313,352	\$ 345,470
Hotel Occupancy Tax	7%	\$ 1,004,850	\$ 1,107,847	\$ 1,221,401	\$ 1,346,595	\$ 1,484,621	\$ 1,636,795	\$ 1,804,566	\$ 1,989,534	\$ 2,193,462	\$ 2,418,291
Development Corporation Sales Tax	0.5%	\$ 71,775	\$ 79,132	\$ 87,243	\$ 96,185	\$ 106,044	\$ 116,914	\$ 128,898	\$ 142,110	\$ 156,676	\$ 172,735

Economic Impact

Avg number of total
tournament/ event
participants: 145,000

Avg number of total
spectators and
affiliated persons per
participant: 2.3

Total number of
spectators and
affiliated persons:
333,000

Avg daily spend per
visitor: \$40 per day

Avg length of stay: 1.5
days (some 1-day
events; some multi-
day)

Avg number of annual
hotel room nights:
58,000

Avg hotel rate: \$125/
night

Estimated annual new
hotel revenue: \$7.25M

Estimated annual total
direct spending:
\$14.5M

Estimated total annual
economic impact:
\$24M

Estimated new City
Sales Tax Revenue
(Year 1): \$143,000

Estimated new HOT
Revenue (@ 7% HOT
Rate; Year 1): \$1M

Estimated new
Development
Corporation Sales
Tax (@ 0.5%): \$72,000

Naming Rights & Sponsorships

Facility Example: Eight Court Indoor, 10 Flat Fields, 12 Diamonds

Annual Commercial Revenue Forecast:

- \$4,300,000 Year 1
- \$4,730,000 Year 2
- \$5,250,000 Year 3
- \$5,575,000 Year 4
- \$6,100,000 Year 5

Revenue Design:

- One (1) title partner at \$1,500,000 annually with ten (10) years in term.
- Four (4) founding partners at \$250,000 annually with five (5) years in term.
- Sports/Facility Entitlement Partners (4) at \$200,000 with four (4) years in term.
- Ten (10) infrastructure partners at \$100,000 annually with three (3) years in term.
- Traditional partnerships will start at two-year terms.
- Test partners will include a premium on investment for a one-year term.

Sports Complex Funding Options



Issue Bonds

- Generally unpopular
- Long timeline
- Costly
- Better used for infrastructure
- Not Recommended



Capital Improvement Budget

- Funds typically don't materialize
- Long term
- Other priorities take precedent
- Not Recommended



Developer Funded/ Private

- Developers don't get the same return on sports as on other projects
- High cost of capital
- Not recommended



P3 Partnership/ Municipal Lease

- Able to leverage private capital
- Ability to combine resources
- Least risk for municipality
- **Recommended**

What is a P3 Municipality Lease?

1. The municipality and the private sector each bring value to the project
2. The City brings land, possibly some capital, possible tax incentives or economic development incentives, TDC support, etc.
3. The private side brings the balance of the capital required to fund the project along with development expertise, sports experience, vendor relationships, and operating expertise
4. Municipally-owned land is leased by the City to the private side, land is donated by a developer, or private land is acquired as part of the project cost
5. The private side then develops the project as a private project with an agreement to lease the improved facility back to the City for a pre-determined amount
6. Doesn't use City's bond capacity and ensures the City maintains control of the use of the facility (as Master Leaseholder)
7. The private side operates the complex

How Does A P3 Municipality Lease Work?

1. Municipality funds Feasibility Study/ Economic Impact Assessment, Financial Modeling/ Budget
2. Municipality funds pre-development architecture, engineering, site surveys, etc. (managed by Synergy). Last out of pocket cost that the City is required to pay
3. Synergy engages private funding partners. Private funding provides the capital to develop the project; up to 100% of project costs +7% for Professional Services
4. Developed as a private project utilizing local firms when possible; Allows for faster, more efficient, and more affordable development
5. Municipality leases the facility back from the private side
6. Externally operated (fee + incentive)
7. All revenues go to the municipality
8. Creates economic impact, regional spending, and supports development (visitors pay the bulk of the costs)
9. Allows for ideal mix of community use and sports tourism
10. Only recommended if the financial model supports positive cash flow (facility can support itself)

Development Process



Roles & Responsibilities



CITY COUNCIL:

-CONTINUES TO LEAD THE PROJECT



SYNERGY & PARTNERS

(FUNDING, CM, OPERATOR):

-PROVIDE EXPERTISE & ONGOING SUPPORT



CONTRACTORS, SUB-CONTRACTORS, AND
PROFESSIONAL SERVICES:

-EXECUTE THE PROJECT

FAQs

Q: What are the terms of the lease?

- A: The lease is amortized over 30 years at 5.5- 6% IRR. Typically, municipalities can pay off the lease within ~17 years

Q: Who owns the facility?

- A: The funding group would own the facility until the last lease payment is made. It's then turned over to the City

Q: How are non-appropriations handled?

- A: Non-appropriation risk is factored in. Ultimately, if the City does not appropriate funds, the funding group would take possession of the facility and operate it to secure its ROI

Q: Who operates the facility?

- A: We have several operators we work with that are well-vetted and have a proven track record. A private operator is better suited to manage the day-to-day operations, balance community use, and partner with the City to bring in a variety of events, both sport and non-sport

Q: Who's responsible for repairs & maintenance?

- A. The operator handles all daily operations, maintenance, repairs, etc. A deferred maintenance account is established for capital improvements in the future

FAQs

Q: How do naming rights and corporate donations work?

- A: A Sports Foundation or Tourism Development can be established house any donations and act as an intermediary between the City and the sports complex itself

Q: Does municipal leasing impact our credit rating?

- A: No, unless funds are not appropriated. Underwriting is based on the credit rating of the municipality, its balance sheet, and the projected financial performance of the complex

City Council Decision Point

Option 1

- Do nothing

Option 2

- Consensus to move forward with the project
- More detailed cost estimate
- Discussion with legal counsel to address any relevant Texas statute issues
- Select a preferred private funding partner; MOU to include term, rate, payment amount
- Updated financial model for operations with detailed lease numbers, sponsorship amount, more accurate rental and utilization rates, realistic event calendar, and potential tournaments/ events, etc.
- Authorize legal counsel to negotiate a funding agreement and pre-construction agreement
- Return to City Council for approval

Questions





SYNERGY
S P O R T S
— G L O B A L —

Improving lives, bringing families
and communities together, through sport

www.SynergySportsGlobal.com

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Patrick Brody, Fire Chief, Fire Department

Meeting Date: June 2, 2026

Item type: Regular Item

Caption:

Consider awarding H-GAC contract FS12-23 to Siddons-Martin Emergency Group for the purchase of a 100' Pierce Enforcer Mid-Mount Aerial Platform in the amount of \$2,351,312 sourced from General and Intergovernmental fund balance, and authorizing the City Manager to negotiate and execute all related documents (Presentation made by Fire Chief Patrick Brody)

Staff Recommendation:

Approve

Summary/History:

The Fire Department is requesting authorization to purchase a 100-ft platform from Siddons-Martin Emergency Group via H-GAC Contract FS12-23 in the amount of \$2,351,312.00 and authorizing the City Manager to execute any related documents. The new apparatus acquisition will replace a 16-year-old platform at Central Fire Station.

Funding Source(s):

Fund:	Account:	Project Number:	Amount Budgeted:
General Fund	Fund balance		\$360,000
Intergovernmental	Fund balance		\$670,364
Intergovernmental	1039015-41480		\$859,952
General Capital Projects	5029000-48041		\$460,996

Financial Impact:

City staff has identified additional funding needs from Fund 103 Intergovernmental fund balance of 670,364 and Fund 101 General Fund fund balance of 360,000 as funding sources for the remaining cost of this purchase. Fund 101(General fund) and Fund 103(Intergovernmental) have sufficient reserves to cover this purchase and maintain a proper reserve level of funding as required by City guidelines.

Other Information/Recommendation:

Attachments:

- | | | |
|----|--|--|
| 1. | Estimate - San Angelo FD Pierce Enforcer ATT | Estimate - San Angelo FD Pierce Enforcer ATT.pdf |
| 2. | SAFD 100 AAT 1310 Proposal Option List | SAFD 100 AAT 1310 Proposal Option List.pdf |
| 3. | SAFD Proposal Detailed 100 AAT | SAFD Proposal Detailed 100 AAT.pdf |
| 4. | BA Memo - Fire Dept Item | BA Memo - Fire Dept Item.pdf |

Presentation:

Patrick Brody

Approvals/Reviews:

Patrick Brody	Created/Initiated
Jeffrey Tomlinson	Approved
Jonathan Flores	Approved
Tina Dierschke	Approved
Brandon Dyson	Approved
Heather Stastny	Final Approval

Siddons Martin Emergency Group, LLC
3500 Shelby Lane
Denton, TX 76207
GDN P115891
TXDOT MVD No. A115890



May 20, 2026

San Angelo Fire Department
306 W 1ST Street
San Angelo, TX 76903

Chief Patrick Brody,

Siddons-Martin Emergency Group, LLC is pleased to provide the following proposal to the San Angelo Fire Department. Unit will comply with all specifications attached and made a part of this proposal. Total price includes all travel and accommodations for two (2) factory visits, including a preconstruction meeting and final inspection for four (4) San Angelo Fire Department personnel. As well as delivery and three (3) days of on-site apparatus training.

Description		Amount
Qty. 1		
Pierce Enforcer, 100' Mid-Mount Aerial Platform		
Delivery date TBD at booking		
Vehicle Price		\$2,349,312.00
HGAC Fee (FS12-23)		\$2,000.00
TOTAL		\$2,351,312.00

THIS IS NOT A QUOTE AND IS INTENDED FOR BUDGETING PURPOSES ONLY.

This is an estimate based on the presented proposal and is not intended to be an invoice or a bid. A proposal letter will be submitted upon customer's request.

Prepayment is due 30 days from contract execution.

Prepayment is protected by a bond that is included in the price of the apparatus.

Sincerely,

John Brunett



Option List

5/20/2026

Customer: San Angelo FD
Representative Brunett, John
Organization: Siddons-Martin Emergency Group
Requirements Manager:
Description: Enforcer 100' Tower Quint
Body: Aerial, 100AAT, Alum Body
Chassis: Enforcer Chassis, 100AAT

Bid Number: 1310
Job Number:
Number of Units: 1
Bid Date: 05/19/2026
Stock Number:
Price Level: 55 (Current: 55)
Lane:

Line	Option	Type	Option Description	Qty
1	0010012		No Boiler Plates requested	1
2	0018180		Single Source Compliance, Aerials	1
3	0584456		Manufacture Location, Appleton, Wisconsin	1
4	0584452		RFP Location: Appleton, Wisconsin	1
5	0588609		Vehicle Destination, US	1
6	0833432	SP	Aerial DAS-3	1
			DAS Slot -	
7	0816491		Comply NFPA 1900 Changes Effective Jan 1, 2024, With Exceptions	1
8	0533351		Quint Fire Apparatus	1
9	0588612		Vehicle Certification, Aerial w/Pump	1
10	0681278		Agency, Apparatus Certification, Aerial w/Pump, U.L.	1
11	0816495		Certification, Vehicle Inspection Program, NFPA 1900	1
12	0536644		Customer Service Website	1
13	0537375		Unit of Measure, US Gallons	1
14	0030006		Bid Bond Not Requested	1
15	0816569		Performance Bond, Not Requested, PPI Terms	1
16	0000007		Approval Drawing	1
17	0002928		Electrical Diagrams	1
18	0729149		Enforcer Chassis, 100AAT	1
19	0000110		Wheelbase	1
			Wheelbase - 271.00	
20	0000070		GVW Rating	1
			GVW rating - 78,000#	
21	0729280		Frame Rails, 13.38 x 3.50 x .375, Enforcer	1
22	0889473		Frame Liner, "C/Inv L" 12.50" x 3.00" x .25", AXT/Vel/Imp/Enf, 57" Qval	1
23	0796912		Axle, Front, Oshkosh TAK-4, Non Drive, 24,000 lb, Enforcer	1
24	0090914		Suspension, Front TAK-4, 24,000 lb, Qtm/AXT/Vel/Enf/SFR	1
25	0087572		Shock Absorbers, KONI, TAK-4, Qtm/AXT/Imp/Vel/Enf	1
26	0000322		Oil Seals, Front Axle	1
27	0679621		Tires, Front, Michelin, XZY3 (wb), 425/65R22.50, 20 ply, Fire Service Load Rtnng	1
28	0019611		Wheels, Front, Alcoa, 22.50" x 12.25", Aluminum, Hub Pilot	1
29	0728953		Axle, Rear, Meritor RT52-185, 54,000 lb, Enf, 100AAT	1
30	0544244		Top Speed of Vehicle, 60 MPH/96 KPH	1
31	0660628		Suspen, Rear, Air Link, AL- 520, Air Ride, 54,000 lb	1
32	0000485		Oil Seals, Rear Axle	1
33	0792675		Tires, Rear, Michelin, X WORKS Z, 315/80R22.50, LRL, Tandem	1
34	0019653		Wheels, Rear, Alcoa, 22.50" x 9.00", Aluminum, Hub Pilot, Tandem	1
35	0568081		Tire Balancing, Counteract Beads	1
36	0620569		Tire Pressure Monitoring, RealWheels, AirSecure, Valve Cap, Tandem Axle	1
			Qty, Tire Pressure Ind - 10	
37	0801909		Lug Nut, Covers, Chrome	1
38	0003245		Axle Hub Covers w/center hole, S/S, Front Axle	1
39	0013241		Axle Hub Covers, Rear, S/S High Hat (Tandem)	1
40	0002045		Mud Flap, Front and Rear, Pierce Logo	1
41	0766669		Chocks, Wheel, SAC-44-E, Folding, 100AAT	1
			Qty, Pair - 01	
42	0766668		Mounting Brackets, Chocks, SAC-44-E, Folding, Horizontal, 100AAT	1
			Qty, Pair - 01	
			Location, Wheel Chocks - Left Side Rear Tire, Rearward	
43	0593759		ESC/ABS/ATC Wabco Brake System, Tandem Rear Axle	1
44	0030185		Brakes, Knorr/Bendix 17", Disc, Front, TAK-4	1

Line	Option	Type	Option Description	Qty
45	0000730		Brakes, Meritor, Cam, Rear, 16.50 x 7.00"	1
46	0735527		Air Compressor, Brake, Wabco 26.8 CI, Paccar	1
47	0637583		Brake Reservoirs, 6,408 Cubic Inch Minimum Capacity, Saber FR/Enforcer	1
			Paint Color, Air Tanks - Frame color	
48	0790412		Air Dryer, Wabco System Saver 1200 IWT, Heated, SFR/Enf	1
49	0000790		Brake Lines, Nylon	1
50	0000854		Air Inlet, w/Disconnect Coupling	1
			Location, Air Coupling(s) - DS Step Well, Forward	
			Qty, Air Coupling (s) - 1	
51	0586772		Box, Recessed, Alum Treadplate, for Air Fitting	1
			Location - forward in driver side step well of cab.	
			Qty, Air Coupling (s) - 1	
52	0070810		All Wheel Lockup (Aerial/Tanker Chassis)	1
53	0808515		Engine, Paccar MX, 510HP, 1850 lb-ftW/OBD, EPA 2027, Saber FR/Enforcer	1
54	0811409		Not Required, Engine Contingency Adjustment	1
55	0001244		High Idle w/Electronic Engine, Custom	1
56	0735687		Engine Brake, Fully Integrated, Paccar MX13 Engine	1
			Switch, Engine Brake - Paccar	
57	0644227		Clutch, Fan, Air Actuated, Saber FR/Enforcer	1
58	0640477		Air Intake, Metal Screen, Saber FR/Enforcer	1
59	0814375		Exhaust System, Horizontal, Right Side	1
			Exhaust, Diffuser - Aluminized Steel (Standard)	
			Exhaust, Material/Finish - Aluminized Steel (Standard)	
			Location, Diffuser Termination - 2.00" Past Rub Rail (Standard)	
			Tip, Exhaust - Straight Tip (Standard)	
60	0788765		Radiator, Saber FR/Enforcer	1
61	0001090		Cooling Hoses, Rubber	1
62	0803687		Fuel Tank, 65 Gallon, Left Side Fill, Rear Air Suspension	1
63	0001129		Lines, Fuel	1
64	0734655		DEF Tank, 7.3 Gallon, LS Fill, Under Cab, Paccar, Fill Dr, ENF	1
			Door, Material & Finish, DEF Tank - Painted	
			Latch, Door, Access - SouthCo M1 medium push to close	
65	0552793		Not Required, Fuel Priming Pump	1
66	0552712		Not Required, Shutoff Valve, Fuel Line	1
67	0699437		Cooler, Chassis Fuel, Not Req'd.	1
68	0011125		Door, Fuel Fill Painted Job Color	1
			Qty, - 01	
69	0690880		No Selection Required From This Category	1
70	0801890		Trans, Allison 6th Gen, 4500 EVS P, w/Prognostics, Imp/Vel/Enf	1
71	0512762		Transmission, Shifter, 6-Spd, Push Button, 4500, Imp/Vel/Qtm/Enf	1
			Trans, ratio - 4500 EVS, 6Spd	
72	0684459		Transmission Oil Cooler, Modine, External	1
73	0001375		Driveline, Spicer 1810	1
74	0734211		Steering, Sheppard M110 w/Tilt, TAK-4, Paccar Pump, w/Cooler, Paccar	1
75	0605356		Steering Wheel, 4 Spoke without Controls, Saber FR/Enforcer	1
76	0559647		Pierce Logo on Horn Button	1
77	0725322		Bumper, 15"/Non-Ext, 100AAT, Fab, .25" Steel, Painted, Enf	1
78	0825640		Lift & Tow Package, Enforcer/Velocity, 100AAT	1
79	0522573		Tow Hooks Not Required, Due to Lift and Tow Package	1
80	0698960		Coating, Top Flange, Front Bumper, Outside Exterior, UL-LX Coating, Black	1
81	0625650		Cab, Enforcer, 7000	1
82	0747442		Engine Tunnel, X12, MX13, Spray Insulation, Enforcer	1
83	0887601		Cab Insulation, Enforcer/Saber FR	1
84	0633594		Rear Wall, Interior, Adjustable Seating	1
85	0632103		Rear Wall, Exterior, Cab, Saber FR/Enforcer	1
			Material, Exterior Rear Wall - Aluminum Treadplate	
86	0728889		Cab Lift, Elec/Hyd, Stabilizer Interlock, Enforcer 100AAT	1
87	0828257		Label For Cab Lift, "Q2B Swivel Must be Turned"	1
			Location - cab lift control	
88	0695930		Grille, Bright Finished, Front of Cab, Enforcer	1
89	0002224		Scuffplates, S/S At Cab Door Jambs, 4-Door Cab	1
			Material Trim/Scuffplate - c) S/S, Polished	

Line	Option	Type	Option Description	Qty
90	0647932		Not Required, Trim, S/S Band, Across Cab Face, AXT/Saber/Enforcer	1
91	0087357		Molding, Chrome on Side of Cab	1
92	0772130		Mirrors, Retractable, West Coast Style, Htd/Rmt, w/Htd/Rmt Convex, Marker Light	1
93	0517525		Mirrors, 8" K-10 Eyeball, PS Cab Front, Front Cross View	1
94	0648171		Door, Half-Height, Saber FR/Enforcer 4-Door Cab, Level Roof	1
			Key Model, Cab Doors - 751	
			Cab, Exterior Door Handle, Finish - 4-Door, Chrome/Black	
95	0655543		Door Panel, Brushed Stainless Steel, Saber/Enforcer 4-Door Cab	1
96	0630636		Controls, Electric Roll-Up Windows, 4dr, 4 Driver Controls, Saber FR/Enforcer	1
97	0620344		Steps, 4-Door Cab, Dual, Saber FR/Enforcer	1
			Light, Step, Additional - P25 LED	
			Step Well Material - Aluminum Treadplate	
98	0770200		Handrail, Exterior, Hansen, Knurled, Alum, LED Backlit, 4-Door Cab	1
			Color, Handrail Light - Red	
			Control, Handrail Light - Parking Brake	
99	0892638		Lights, Cab & Crw Cab Acs Stps, P25, LED w/Bezel, 6lts	1
			Color, Trim - Chrome Housing	
100	0583698		Fenders, S/S on cab, Extra Wide, Saber/Enf	1
101	0586967		Grab Handle, Chrome, Specify Location, Qty	2
			Location - one (1) on the driver and one (1) on the officer side door panel vertical near the upper door panel hinged side, to work as a high grab handle into cab.	
			Qty, - 02	
102	0557023		Handrail, 10", Below Cab Windshield, Pair	1
103	0630508		Window, Side of C/C, Fixed, PS Only, SFR/Enf	1
104	0786289		Window Tint, Crew Cab Door, Left Side, Medium Gray	1
105	0786287		Window Tint, Rear Wall, Left Side, Medium Gray	1
106	0786276		Window Tint, Rear Wall, Right Side, Medium Gray	1
107	0786278		Window Tint, Crew Cab Door, Right Side, Medium Gray	1
108	0786283		Window Tint, Behind Cab Door, Right Side, Medium Gray	1
109	0806597		Compt, 16.50 W x 36 H x 15 D, RS Side C/C, Dbl Pan, 70" Enf/SFR	1
			Light, Aux Cab Compartment - Pierce, Hinged Side	
			Finish, Cab Compt/Component - Cab Interior	
			Door, Cab Exterior Cabinet - Double Pan, Non-Locking	
			Door, Exterior Stop - Web Strap	
110	0798597		Holder, Cup, Cab/Crewcab, Each, Loc	2
			Location - driver and officer side of cab	
			Qty, - 02	
111	0894089		Dash, Heavy Duty Metal, Enforcer	1
			Material Finish, Metal Dash - Fire Smoke Gray	
112	0607217		Mounting Provisions, 3/16" Alum, Full Engine Tunnel, Saber FR/Enforcer	1
			Mounting Provision Spacing - 1.00"	
			Material Finish, Cab Interior - Painted	
113	0750824		Cab Interior, Vinyl Headliner, Saber FR/Enforcer, CARE	1
			Color, Cab Interior Vinyl/Fabric - Endure Vinyl - Silver/Gray	
			Engine Tunnel Cover - Dark Silver Gray Endure Vinyl	
			Cab Interior Rear Wall Material - Painted Aluminum	
114	0753903		Cab Interior, Paint Color, Saber FR/Enforcer	1
			Color, Cab Interior Paint - i) fire smoke gray	
115	0052100		Floor, Rubber Padded, Cab & Crew Cab, Saber/Enforcer	1
116	0722696		HVAC, Standard-Duty, Enforcer, CARE	1
			HVAC System, Filter Access - Removable Panel	
			Auxiliary Cab Heater - Both	
			HVAC System, Control Loc. - Panel Position #12	
			Plenum Cover Material - Formed Plastic	
117	0624005		Sun Visor, Vinyl/Fabric, AXT, Qtm, SFR/Enf	1
			Sun Visor Retention - Thumb Latch	
			Sun Visor, Vinyl/Fabric - Vinyl	
118	0622887		Grab Handles, Driver Door Post, Officer Door Post Low, SFR/Enf	1
119	0693439		Lights, Engine Compt, Custom, Auto Sw, w/Fld Chk Dr WIn 3SC0CDCR, 3" LED Trim	1
			Qty, - 01	
120	0631830		Fluid Check Access, Saber FR/Enforcer, Arrow XT	1
			Latch, Door, Storage - Lift and Turn Latch, Flush	

Line	Option	Type	Option Description	Qty
121	0583042		Side Roll and Frontal Impact Protection	1
122	0622618		Seating Capacity, 5 Belted Seats	1
123	0636955		Seat, Driver, Pierce PSV, Air Ride, High Back, Safety, PRIMARY, SFR/Enf	1
124	0636942		Seat, Officer, Pierce PSV, Fixed, SCBA, Safety, PRIMARY, SFR/Enf	1
125	0620420		Radio Compartment, Below Non-Air Ride Seat, Saber FR/Enforcer	1
			Latch, Door, Storage - Lift and Turn Latch, Flush	
126	0821932		Cabinet, Rear Facing, LS, 23 W x 40.25 H x 26.75 D, Web, Ext Acc, SFR/Enf	1
			Light, Short Cabinet - Pierce, Exterior, Left Side	
			Scuffplate, Material/Finish - S/S, Brushed	
			Material Finish, Shelf - Painted - Cab Interior	
			Shelf/Tray, Cabinet - (1) Shelf, Adjustable, 1.25" Up-Turned Lip	
			Door, Cab Exterior Cabinet - Double Pan, Locking #751	
			Door, Exterior Stop - Web Strap	
			Louvers, Cabinet - 0-No Louvers	
			Fastener, Web, Cab Cabinet - Seat Belt Buckle, Bottom	
127	0102783		Not Required, Seat, Rr Facing C/C, Center	1
128	0635969		Seat, Rr Fcng C/C, RS Otbrd, Pierce PSV, SCBA, Safety, PRIMARY, SFR/Enf	1
129	0108189		Not Required, Seat, Forward Facing C/C, LS Outboard	1
130	0635957		Seat, Fwd Fcng C/C, Ctr, (2) Pierce PSV, SCBA, Safety, SECONDARY, SFR/Enf	1
131	0108190		Not Required, Seat, Forward Facing C/C, RS Outboard	1
132	0766467		Upholstery, Seats In Cab, All Vinyl, Seats Inc, CARE	5
			Color, Cab Interior Vinyl/Fabric - Endure Vinyl - Silver/Gray	
			Qty, - 05	
133	0543991		Bracket, Air Bottle, Hands-Free II, Cab Seats	4
			Qty, - 04	
134	0603866		Seat Belt, Dual Retractor, ReadyReach, Saber FR/Enforcer	1
			Seat Belt Color - Red	
135	0817557		Helmet Storage, Provided by Fire Department, NFPA/ULC 2024	1
136	0647647		Lights, Dome, FRP Dual LED 4 Lts	1
			Color, Dome Lt - Red & White	
			Color, Dome Lt Bzl - Black	
			Control, Dome Lt White - Door Switches and Lens Switch	
			Control, Dome Lt Color - Lens Switch	
137	0896451		Enhanced Software for Cab and Crew Cab Dome Lts	1
138	0816996		Portable Hand Light, Provided by Dealer, NFPA/ULC 2024	1
139	0622803		Cab Instruments, Black Gauges, Black Bezels, Enforcer MUX	1
			EXCLUDED: [Emergency Switching]. - Individual Switches	
140	0509511		Air Restriction Indicator, Imp/Vel, AXT, Enf MUX	1
141	0543751		Light, Do Not Move Apparatus	1
			Alarm, Do Not Move Truck - Pulsing Alarm	
142	0743386		Messages, Open Dr/DNMT, Color Dsply, 100AAT	1
143	0622798		Switching, Cab Instrument Lower Console & Overhead, Rocker MUX, Enforcer	1
144	0802945		Wiper Control, 2-Speed with Intermittent, Stalk Control, Enf MUX	1
145	0731813		Hour Meter, Aerial, Included in Information Centers, ASL, AAT, ASP	1
146	0002615		Switch, Aerial 12V Master	1
147	0002617		PTO switch, w/light - aerial	1
148	0834413		USB, Cab, 4, 12V DC, Dual USB Termination, Batt Dir. NFPA1900/ULC	1
			USB, Type - USB Combo A & C	
149	0820894		Wiring, Spare, 15 A 12V DC, Batt Dir, 1st NFPA1900/ULC	1
			Location, Wiring - Behind Officer Seat	
			12vdc power from - Battery direct	
			Wire termination - 10-Place Bus Bar w/Cover	
150	0814201		Vehicle Information Center, 7" Color Display, Touchscreen, MUX, CL714	1
			System Of Measurement - US Customary	
151	0734854		Collision Mitigation, Not Requested	1
152	0606247		Vehicle Data Recorder w/CZ Display Seat Belt Monitor	1
153	0696439		Antenna Mount, Custom Chassis, Cable Routed to Instrument Panel Area	2
			Qty, - 02	
			Location, Antenna Mount - Left And Right Side	
154	0817058		Camera, Pierce, LS Mux, R Camera, SD, CL714	1
			Camera System Audio - Not Provided	
155	0814831		Not Required, Camera Switcher	1

Line	Option	Type	Option Description	Qty
156	0890416		Pierce Command Zone, Advanced Electronics & Control System, Enforcer, WiFi CZT	1
			Color, Antenna - White Antenna	
			Module Housings - See Through Housings with LED Cuircuit Indicators	
157	0896456		Prognostics, Electrical System	1
158	0816093		ClearSky Telematics, Remote Fleet & On-scene Management, AT&T Commercial Subscription, Telematics - 3 Year Subscription	1
159	0733539		Electrical System, Enf MUX ESP	1
160	0079211		Batteries, (6) Stryten/Exide Grp 31, 950 CCA each, Threaded Stud	1
161	0008621		Battery System, Single Start, All Custom Chassis	1
162	0002698		Battery Compartment, Saber/Enforcer	1
163	0812586		Charger, Sngl Sys, Kussmaul, Chief 091-266-12-60, 60 Amp	1
164	0814869		Location, Cab, Charger, Behind Driver Seat	1
165	0813791		Panel, Charger Display, Kussmaul, 091-94-12, Batt Dir	1
166	0814939		Location, Cab, Ind/Remote, Driver's Seat Riser	1
167	0811952		Not Required, Indicator/Remote Status	1
168	0824337		Not Required, Location Ind/Remote	1
169	0016857		Shoreline, 20A 120V, Kussmaul Auto Eject, 091-55-20-120, Super Qty, - 01	1
			Color, Kussmaul Cover - b) red	
			Shoreline Connection - Battery Charger	
170	0026800		Shoreline Location	1
			Location, Shoreline(s) - DS Cab, Frt Corner	
171	0647728		Alternator, 430 amp, Delco Remy 55SI	1
172	0092582		Load Manager/Sequencer, MUX	1
			Enable/Disable Hi-Idle - e)High Idle enable	
173	0783157		Headlights, Rect, JW Spkr Evo 2, Heat, AXT/Enf/Imp/Sab/Vel	1
			Color, Headlight Bez - Chrome Bezel	
174	0802935		Light, Directional, Wln M62T* LED, Cmn Bzl, Above Headlights, Sab/Enf	1
			Color, Lens, LED's - Clear	
			Color, Q Bezel and Trim - Polished Chrome	
			Flash Pattern, Directional Lts - Steady On (Arrow)	
175	0620054		Light, Directional/Marker, Intermediate, Weldon 9186-8580-29 LED 2lts	1
176	0736083		Lights, Clearance/Marker, Side, P25 LED 2 Lts, Others With Visor Lt	1
177	0647899		Lights, Directional/Marker, Cab Front Side, Weldon 9186-8580-29 LED, Sab/Enf	1
178	0670831		Lights, Clearance/Marker/ID, Rear, P25 LED 7Lts, 100AAT	1
179	0602938		Light, Marker End Outline, Rubber Arm, LED Marker Lamp, Rear Body	1
			Qty, Lights, Pair - 1	
180	0804514		Lights, Tail, Wln M62BTT* Red Stop/Tail & M62T* Amber Dir Arw For Hsg	1
			Color, Lens, LED's - Match	
			Flash Pattern, Directional Lts - Steady On (Arrow)	
181	0806466		Lights, Backup, Wln M62BU, LED, For Tail Lt Housing	1
182	0889577		Bracket, License Plate & Light, P25 LED, Stainless Brkt	1
			Color, Trim - Chrome Housing	
183	0556842		Bezels, Wln, (2) M6 Chrome Pierce, For mtg (4) Wln M6 lights	1
184	0589905		Alarm, Back-up Warning, PRECO 1040	1
185	0817254		Lights, Perimeter Cab, Amdor AY-LB-12HW0** LED 4Dr	1
186	0769564		Lights, Perimeter Pump House, Amdor AY-LB-12HW020 LED 1lt	1
187	0763190		Lights, Perimeter Body, Amdor AY-LB-12HW012 LED 3lts	1
			Control, Perimeter Lts - Parking Brake Applied	
188	0896454		Enhanced Software for Perimeter Lts	1
189	0735865		Step Illumination, Pump Panel Light Shield, 100AAT, w/Pump	1
190	0730736		Bracket, Alum. Painted, Offset, 12V Brow Mount Lts, Top of Cab	2
			Location - above crew cab doors, one each side	
			Qty, - 02	
			Bracket, Light, Angle, Cab Sides - Straight	
191	0762177		Light, Visor, HiViz, FT-B-72-ML-*, Cntl Feat, Flush w/Cab	1
			Control, Scene Lts - Cab Sw Panel DS and Pump Panel Sw LS	
			Color, Lt Housing HiViz - Black	
192	0897903		Lights, HiViz FT-MB-2.45-**-** 49.37", 1st	1
			Location - above driver side crew cab door	
			Qty, - 01	
			Control, Scene Lts - Cab Sw Panel DS and Pump Panel Sw LS	

Line	Option	Type	Option Description	Qty
192			Color, Lt Housing HiViz - Black	
193	0897900		Scene Light Optics - combination	
			Lights, HiViz FT-MB-2.45-**-* 49.37", 2nd	1
			Location - above passenger side crew cab door	
			Qty, - 01	
			Control, Scene Lts - Cab Sw Panel DS and Pump Panel Sw LS	
			Color, Lt Housing HiViz - Black	
			Scene Light Optics - combination	
194	0764634		Lights, HiViz FT-B-72-* LED, 1st	1
			Location - driver side of body on catwalk above LS3.	
			Qty, - 01	
			Control, Scene Lts - DS Scene Lts	
			Color, Lt Housing HiViz - Black	
195	0764632		Lights, HiViz FT-B-72-* LED, 2nd	1
			Location - passenger side of body on catwalk above RS3.	
			Qty, - 01	
			Control, Scene Lts - PS Scene Lts	
			Color, Lt Housing HiViz - Black	
196	0729276		Lights, Hose Bed, Front/Rear, Light Strips, AAT	1
			Control, Hose Bed Lts - Cup Switch At Rear	
197	0645677		Lights, Not Required, Rear Work, Alt. 12 Volt Lights At Rear Body	1
198	0645637		Lights, Rear Scene, Wln, PEL*C LED, 45 Deg Flange	2
			Location, Lights - rear of truck, one each side, mid height	
			Qty, - 02	
			Control, Rear Scene Lts - Cab Switch Panel DS, Pump Panel DS and	
			Cup Switch At Rear SS	
199	0892702		Lights, Walk Surf, Amdor AY-LB-12HW020, P25 LED, 100AAT	1
			Color, Trim - Chrome Housing	
200	0771870		Aerial, 100AAT, Alum Body	1
201	0554271		Body Skirt Height, 20"	1
202	0769002		Tank, Water, 300 Gallon, Poly, 100AAT	1
203	0751917		Overflow, 3.00" Water Tank, Poly	1
204	0028107		Not Required, Foam Cell Modification	1
205	0003429		Not Required, Direct Tank Fill	1
206	0769016		Hose Bed, Alum, Right Side, 100AAT	1
207	0723546		DA Finished Hose Bed/Cargo Area	1
208	0555137		Hose Bed Capacity 800' of 5.00", 100AAT, 100' RMAP	1
209	0748063		Hose Restraint, Front Vinyl/Treadplate, 1" Heavy Nylon Web Rear, RS, 100AAT	1
			Color, Vinyl Cover - c) black	
210	0003512		Running Boards, Ascendant, PAL	1
211	0735582		Turntable Steps, Swing-Down, Left Side, 100AAT	1
			Step, Flip - Flip Step, One Step Assembly	
			Body Handrail Finish - knurled aluminum	
			Step Surface, Turntable - Punched Grip	
212	0889980		Lights, Step (3), P25 LED, One Side	1
			Control, Scene Lts - Aerial master	
213	0690023		Wall, Rear, Smooth Aluminum	1
214	0074515		Tow Eyes (2), Painted Lower Job Color, 100AAT, Ascendant Single Axle, 75' HAL	1
215	0769019		Construction, Compt, Alum, 100AAT	1
216	0771504		Compt, Left Side, Roll, 100AAT	1
			Latch, Door, Access - SouthCo C2 black raised, pair	
217	0771505		Compt, Right Side, Roll, 100AAT	1
218	0766483		Doors, Gortite Rollup, Side Compartments	9
			Qty, Door Accessory - 09	
			Color, Roll-up Door, Gortite - Painted to Match Lower Body	
			Latch, Roll-up Door, Gortite - Non-Locking Liftbar	
219	0740006		Bumper, Rear, 3", Counterweight, Steel, Full 45 Degree Angled Corners, 100AAT	1
220	0603083		Lights, Compt,Pierce LED,Dual Light Strips,Each Side Dr,Ascend	9
			TA,75'HAL,PAP,HDL	
			Qty, - 09	
			Location, Compartment Lights - All Body Compts	
221	0687145		Shelf Tracks, Recessed, PUC/3rd Generation	1
222	0600289		Shelves, Adj, 500 lb Capacity, Full Width/Depth, Predefined Locations, Aerial	6
			Qty, Shelf - 06	

Line	Option	Type	Option Description	Qty
222			Material Finish, Shelf - Painted - Spatter Gray Location, Shelves/Trays, Predefined - RS1-Centered, RS2-Centered, RS3-Centered, LS1-Centered, LS2-Centered and LS3-Centered	
223	0647772		Tray, Floor Mounted, Slide-Out, 500lb, 2.00" Sides, 3G Qty, - 04 location - LS2, LS4, RS2, RS4	4
224	0061917		Material - Painted - Spatter Gray Rub Rail, Aluminum Extruded, 3.12", Side of Body	1
225	0769018		Fender Crowns, Rear, S/S, w/Removable Fender Liner, Aerial, 3G, Two Pair	1
226	0519849		Not Required, Hose, Hard Suction	1
227	0893756		Handrails, Side Pump Panels, Per Print, Aerial	1
228	0765324		Step, Runningboard - step Compt, Air Bottle/Extinguisher,Between Tandems,Three (3),w/Straps,100AAT,Bolt-In Qty, Air Bottle Comp - 2 Door Finish, Fender Compt - Painted Location, Fender Compt - LS and RS Latch, Air Bottle Compt - Southco C2 Black Raised, Pair Insert, Air Bottle Compt - Rubber Matting Door Type - lift up with pneumatic spring	2
229	0795333		Compt, Air Bottle, Single, Fender Panel, Bolt-In Qty, Air Bottle Comp - 4 Door Finish, Fender Compt - Painted Location, Fender Compt - Single - LS Fwd, Single - LS Rear, Single - RS Fwd and Single - RS Rear Latch, Air Bottle Compt - Southco C2 Black Raised Insert, Air Bottle Compt - Rubber Matting	4
230	0768635		Ladder, 35' Duo-Safety 1200A 2-Sect Qty, - 02	2
231	0010406		Ladder, 28' Duo-Safety 1200A 2-Section Qty, - 1 Location, Extension Ladder - torque box	1
232	0024232		Ladder, 16' Duo-Safety 875A Roof Qty, - 1	1
233	0648681		Ladder, 14' Duo-Safety 875-DR Roof Qty, - 01 Location - fly section of aerial	1
234	0014232		Ladder, 20' Duo-Safety 875A Roof Qty, - 1	1
235	0024233		Not Required, Attic Extension Ladder	1
236	0768634		Ladder, 10' Duo-Safety Folding, 585A Qty, - 02 Location, Folding Ladder Aerial - torque box	2
237	0806199		Ladders in Torque Box, Gortite Roll, Retainer Latch, 100AAT Color, Roll-up Door, Gortite - Satin finish Latch, Roll-up Door, Gortite - Non-Locking, Rear Latch, Door Ladder Storage - Southco C2 Chrome Raised, Pair Latch, Anti-Migration Plate - Southco C2 chrome raised	1
238	0766602		Lights, Torque Box Ladder Storage, Pierce LED Strip Lights, 2 Lts, 100AAT	1
239	0788575		Pike Pole, 12' Fire Hooks Unlimited, NY Roof Hook, Fiberglass, RH-12, Pry End Qty, - 02	2
240	0567897		Pike Pole, 8' Fire Hooks Unlimited, New York Roof Hook, Steel, Pry End, RH-8 Qty, - 02 Location - in ladder storage	2
241	0634020		Pike Pole, 6' Fire Hooks Unlimited, New York Roof Hook, Steel, Gas Shut Off,RH-6 Qty, - 02	2
242	0548410		Not Required, Pole, Pike, 3'	1
243	0770578		Pike Pole Tubes, in Torque Box/Ladder Storage, ABS Qty, - 06	6
244	0765390		Pump House, Side Control, 42", 100AAT, Control Zone	1
245	0767048		Pump House Structure	1
246	0828091		Pump, Waterous, ESU1, 2000 GPM, Single Stage, 100' AAT	1
247	0504116		Seal, Mechanical, Waterous, w/S100/ESU Pump	1
248	0816450		Trans, Pump, Waterous C22, S100/ESU Pump Only	1

Line	Option	Type	Option Description	Qty
249	0635600		Pumping Mode, Stationary Only	1
250	0605126		Pump Shift, Air Mnl Override, Split Shaft, Interlocked, Waterous	1
251	0003148		Transmission Lock-up, EVS	1
252	0004547		Auxiliary Cooling System	1
253	0014486		Not Required, Transfer Valve, Single Stage Pump	1
254	0746501		Valve, Relief Intake, Elkhart	1
			Qty - 1	
			Pressure Setting - 125 psig	
			Intake Relief Valve Control - Behind Right Side Pump Panel	
255	0826104		Controller, Pressure, FRC, Pump Boss Max, PBA500	1
			Pressure Governor Throttle Control - Clockwise	
			Pressure Governor Default Mode - RPM Setting	
			Pressure Governor Std/Metric - Standard psi readouts	
			Pressure Governor Transducer - Single 600 PSI	
			Pressure Governor Alarm - NOT BE an additional alarm provided	
256	0072153		Primer, Trident, Air Prime, Air Operated	1
257	0780364		Manuals, Pump, (2) Total, Electronic Copies	1
258	0602492		Plumbing, Stainless Steel and Hose, Single Stage Pump, 100AAT	1
259	0089437		Plumbing Without Foam System	1
260	0751029		Inlets, 6.00", (1) Left Side, (1) Right Side, 1500-2000 GPM Pump, 100AAT	1
261	0004646		Cap, Main Pump Inlet, Long Handle, NST, VLH	1
262	0084610		Valves, Akron 8000 series- All	1
263	0016158		Valve, Inlet(s) Recessed, Side Cntrl, "Control Zone"	1
			Qty, Inlets - 1	
264	0004700		Control, Inlet, at Valve	1
265	0004660		Inlet (1), Left Side, 2.50"	1
266	0029147		Not Required, Inlet, Right Side	1
267	0723049		Valve, .75" Bleeder, Aux. Side Inlet, "T" Swing Handle	1
268	0767284		Tank to Pump, (1) 3.00" Valve, 3.00" Plumbing, 100AAT	1
269	0004905		Outlet, Tank Fill, 1.50"	1
270	0062133		Control, Outlets, Manual, Pierce HW if applicable	1
271	0004940		Outlet, Left Side, 2.50"	2
			Qty, Discharges - 02	
272	0005091		Elbow, Left Side Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	1
273	0004945		Outlet, Right Side, 2.50"	1
			Qty, Discharges - 01	
274	0025091		Elbow, Right Side Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	1
275	0821949		Outlet, Large Diameter, Right Side, Akron Valve, 100AAT	1
			Outlet, Large Diameter, Plumbing - 4.00"	
			Outlet, Large Diameter, NST Adapter - 4.00" MNST	
			Outlet, Large Diameter, Valve Actuation - Pierce small handwheel	
276	0005097		Elbow, Large Dia Outlet, 30 Deg, 4.00" FNST x 5.00" Storz	1
			Qty, - 01	
277	0092572		Not Required, Outlet, Front	1
278	0752096		Caps/Plugs for 1.00" to 3.00" Discharges/Inlets, Vinyl Covered Cable	1
279	0723042		Valve, 0.75" Bleeder, Discharges, "T" Swing Handle	1
280	0029106		Not Required, Deluge Outlet	1
281	0826320		Waterway Outlet & Control, Akron Valve, 100AAT	1
			Outlet, Waterway (Aerial), Valve Actuation - Pierce small handwheel	
282	0762277		Crosslays Sngl Sheet Unpainted, (1+) 1.50" Std. Cap, 100AAT	2
			Qty, Crosslays - 2	
283	0029196		Not Required, 2.50" Crosslay	1
284	0623374		Hose Restraint, Crosslays, 2" Nylon Web, Seat Belt Buckle, Tether, Bar, Sides	2
			Qty, - 02	
			Color, Strap - Orange	
285	0590891		Hose Restraint, Crosslay/Deadlay, Velcro Straps, Top	2
			Qty, - 02	
286	0044333		Not Required, Foam System	1
287	0012126		Not Required, CAF Compressor	1
288	0552517		Not Required, Refill, Foam Tank	1
289	0042573		Not Required, Foam System Demonstration	1
290	0045465		Not Required, Foam Tanks	1

Line	Option	Type	Option Description	Qty
291	0091110		Not Required, Foam Tank Drain	1
292	0091112		Not Required, Foam Tank #2 Drain	1
293	0738072		Approval Dwg, Pump Panel(s), Not Required	1
294	0032479		Pump Panel Configuration, Control Zone	1
295	0747651		Step, Slide-Out/Fold-Out, Pump Operator Platform, 100AAT	1
296	0769430		Light, Slide-Out Pump Operator Step, Amdor AY-LB-12HW020, Short Step	1
297	0635355		Material, Pump Panels, Side Control Painted FormCoat Black	1
			Material Finish, Pump Panel, Side Control - Painted FormCoat Black	
			Material, Pump Panel, Side Control - Aluminum	
298	0723264		Panel, Pump Access - Right Side Only, 100AAT	1
			Latch, Pump Panel Access, Side Mount - Flush Lift and Turn, Chrome, AAT	
299	0583824		Light, Pump Compt, Wln 3SC0CDCR LED White	1
			Qty, - 01	
300	0586382		Gauges, Engine, Included With Pressure Controller	1
301	0005601		Throttle, Engine, Incl'd w/Press Controller	1
302	0739224		Indicator Light @ Pump Panel, Throttle Ready, Incl w/Pressure Gov/Throttle,Green	1
303	0549333		Indicators, Engine, Included with Pressure Controller	1
304	0745568		Indicator Light, Pump Panel, Ok To Pump, Green	1
305	0553643		Control, Air Horn at Pmp Pnl, Red Switch, Momentary	1
306	0511078		Gauges, 4.00" Master, Class 1, 30"-0-600psi	1
307	0511100		Gauge, 2.00" Pressure, Class 1, 30"-0-400psi	1
308	0062586		Gauge, Water Level, Class 1, Pierce Std	1
309	0006774		Not Required, Foam Level Gauge	1
310	0735892		Light Shield, S/S LS & RS, 100AAT, Std LED	1
311	0837190		Air Horns, (2) Grover Stuttertone, 6" Round, In Bumper, 100AAT	1
			Finish, Air Horns - Grover, Chrome	
312	0606833		Location, Air Horns, Bumper, Each Side, Inside Frame, (Pos #3 & #5)	1
313	0757092		Control, Air Horn, Multi Select	1
314	0757084		Control, Air Horn, Horn Ring	1
315	0757076		Control, Air Horn, Lanyard, RS	1
			Lanyard - Vinyl Covered .12" cable	
316	0533071		Siren, Wln 295SLSC1, 100 or 200 Watt, w/Plug-in/Detachable Microphone Cord	1
317	0015283		Location, Elect Siren	1
			Location - panel position A	
318	0748306		Control, Elec Siren, Multi Select	1
319	0748292		Control, Elec Siren, Push Button Sw, RS	1
320	0601304		Speaker, (2) Wln, SA315P, w/Pierce Polished Stainless Steel Grille, 100 watt	1
			Connection, Speaker - siren head	
321	0601557		Location, Speaker, Frt Bumper, Recessed, Ea Side, Outside Frame,Outbrd (Pos 1/7)	1
322	0895382		Siren, Federal Q2B, Enforcer, 100AAT	1
			Finish, Q2B Siren - Chrome	
323	0816506		Siren, Mechanical, Mounted Above Deckplate, Swivel, 100AAT, Finish Feature	1
			Finish, Bracket - UL-LX black	
324	0026163		Control, Mech Siren, DS & PS Foot Sw	1
325	0740391		Sw, Siren Brake, Momentary Chrome Push Button, RS	1
326	0734625		Control, Warning Lt Intensity, Wln, Photocell, Prk Brk	1
327	0740422		Lightbar, Wln, Freedom IV-Q, 72", RRWRRR____RRRWRR, Lw Int	1
			Filter, Whl Freedom Ltbrs - No Filters	
328	0745392		Lights, Front Zone, Wln M6** LED, in Common Bzl, Lw Int	1
			Color, Lens, LED's - c)clear	
			Color, Lt DS Front - Red	
			Color, Lt PS Front - Red	
329	0558676		Daytime Running Lights, Headlights, Vel/Imp, Enf/AXT-MUX, (Low Beam)	1
330	0653937		Flasher, Headlight Alternating	1
			Headlt flash deactivation - a)w/high beam	
331	0740512		Lights, Side Zone Lower, Wln M6**, M6**, M6**, 6lts, Lw Int	1
			Location, Lights Front Side - b)each side bumper	
			Color, Lens, LED's - Clear	
			Location, Lights Mid Side - Over Front Wheels	
			Location, Lights Rear Side - Between Tandem	
			Color, Trim - Chrome Trim	

Line	Option	Type	Option Description	Qty
331			Color, Lt Side Front, DS - Red Color, Lt Side Front, PS - Red Color, Lt Side Mid DS - Red Color, Lt Side Mid PS - Red Color, Lt Side Rear PS - Red Color, Lt Side Rear DS - Red	
332	0822804		Lights, Side, WIn WION* LED, Recessed in Cab Steps, 4lts, Off Lw Int Color, Lights, Warning - gla) red Control, Light - b) side warning	1
333	0732229		Lights, Side, WIn WIONSM** LED, Trim Fet, Off Lw Int, 1st Location, Lights - centered in rub rail under LS2, LS4, RS2, RS4 Qty, - 04 Color, Lights, Warning - Red Control, Light - b) side warning Color, Trim - Chrome Trim	4
334	0746425		Lights, Rear Zn Lwr, WIn M6**, For Tail Lt Housing, Lw Int Color, Lens, LED's - Clear Color, Lt DS Rear - r) DS Rear Lt Red Color, Lt PS Rear - r) PS Rear Lt Red	1
335	0803250		Light, Rear Zone Up, WIn L31H*F Beacon, Red LED, DVI High, Lw Int Color, Dome, Rear Warning - j) both domes clear	1
336	0006551		Not Required, Lights, Rear Upper Zone Blocking	1
337	0791501		Light, Traffic Directing, WIn TAL65, 36" Long LED, Aerials Activation, Traffic Dir L - Not Connected	1
338	0754854		Location, Traf Dir Lt, On Top of Body Below Turntable w/Box, Matrl Feature Material, Bracket - Aluminum Treadplate	1
339	0723755		Location, Traf Dir Lt Controller, Panel #13 in Center Console	1
340	0519934		Not Required, Brand, Hydraulic Tool System	1
341	0649753		Not Required, PTO Driven Hydraulic Tool System	1
342	0771866		Aerial, Ascendant 100' Aerial Tower	1
343	0680821		Boom Panel, Pair Paint Color, Predefined - #90 Red	1
344	0526890		Not Required, Indicator, Extension	1
345	0688232		Rung Covers, Aerial Device Rung Cover Color - Safety Yellow	1
346	0623645		Aerial Stability Test, Maximum Tip Options	1
347	0678539		Brackets Only, Roof/Wall Ladder, Aerial Fly Section Finish - Painted, Aerial Device Color Roof Ladder, Make/Model - 14' Duo-Safety 875-DR	1
348	0766887		Brackets, Stokes Storage, Base Section Above Boom Panel, 100AAT Qty, - 01 Finish - Painted, Aerial Device Color Location, Aerial Device - right side	1
349	0728982		Box, Saw Storage, w/Cover, Base Section Above Boom Panel, 100AAT, Door Sw Qty, - 02 Finish - Painted, Aerial Device Color Latch, Door, Storage - "D" Handle Latch Location, Aerial Device - each side Louvers - no louvers	2
350	0823011		Basket, 100AAT	1
351	0803225		Lights, Turntable Walkway, P25, OSS, LED, 100AAT Color, Trim - Chrome Housing	1
352	0767535		Light, Turntable Console, TecNiq E-10, LED	1
353	0732762		Basket Heat Shields, 100AAT	1
354	0814210		Control Stations, 100AAT, CL714	1
355	0815152		Lights, Basket Interior, 100AAT	1
356	0771862		Stabilizers, 100AAT, Three Sets	1
357	0729051		Stabilizer Pan and Trim Material Stabilizer Panels - stainless steel, painted to match lower body color Stabilizer Trim - painted to match lower body color	1
358	0746173		Door, Stabilizer Control Box, Aerial MUX, 100AAT Latch, Door, Storage - Southco C2 Black Raised Hinge Location - Inboard	1

Line	Option	Type	Option Description	Qty
358			Door, Material & Finish, Stabilizer - Smooth aluminum	
359	0615058		Stabilizer Placement, Cameras w/Command Zone Color Display, 1 Set	1
360	0771218		Hydraulic System, 100AAT	1
361	0767932		Swivels, w/Encoder, 36, 100AAT	1
362	0767931		Electrical System, 100AAT	1
363	0783178		Lights, Tip, WIn MPB* LED, Front of Basket 2lts	1
			Color, WIn Lt Housing - White Paint	
364	0740163		Lights, Tracking, WIn MPB* LED, 100AAT 2lts, Swt Feature	1
			Location, Sw, Arl DC Lts - Pltfm/Tip & Turntable	
			Color, WIn Lt Housing - White Paint	
			Scene Lt Optics LH Base - L Spot	
			Scene Lt Optics RH Base - R Spot	
365	0743431		Basket Access, w/ Flip Down Step, Lift Bar Latch, 100AAT	1
			Finish, Step Well - aluminum treadplate	
366	0894586		Lights, Step (4), P25, Ladder Style Access Steps, Both Sides	1
			Control, Light - r) aerial master	
			Color, Trim - Chrome Housing	
367	0749120		Lighting, Rung, LED, TecNiq, 5 Section, Base, Low, Cent, Upper, Fly, 100AAT	1
			Control, Aerial Rung Lighting - Aerial Not Stowed	
			Color, Lt Aerial Fly Sect - Red	
			Color, Lt Aerial Base Sect - Red	
			Color, Lt Aerial Lower Mid Sect - Red	
			Color, Lt Aerial Upper Mid Sect - Red	
			Color, Lt Aerial Mid Sect - Red	
368	0888079		Lights, Stabilizer Warn (2) Sets, WIn M6**, Lw Int	1
			Color, Lens, LED's - Clear	
			Color, Trim - Chrome Trim	
			Color, Lt Stabilzr Pan, LS Front - Red	
			Color, Lt Stabilzr Pan, LS Rear - Red	
			Color, Lt Stabilzr Pan, RS Front - Red	
			Color, Lt Stabilzr Pan, RS Rear - Red	
369	0068703		Lights, Grote Supernova LED, Stabilizer Beam, (1) Set	1
370	0762387		Lights, Stabilizer Scene, (3) sets, Amdor AY-LB-12HW012, 100AAT	1
371	0764091		DC Power To Tip, 12.88 Amp, 100AAT	1
372	0759577		Light, WIn PSL1B*, 12 Volt Under Steps, 100AAT, 1st	2
			Qty, - 02	
			Location, Sw, Arl AC Lts - M)2 Pos	
			Color, WIn Lt Housing - White Paint	
			Location, Lts Under 100'AAT Steps - Left Side Front Corner and Right	
			Side Front Corner	
373	0016924		Intercom, 2-Way Atkinson (PAP)	1
374	0540918		Not Required, Breathing Air to Tip, Aerial Platform	1
375	0024742		Not Required, Mask, Breathing Air To Tip	1
376	0767396		Aerial Pedestal, 100AAT	1
377	0766834		Lyfe Brackets, 3-In-1, Used w/Duo-Safety 875 Ladders ONLY, 100AAT	1
378	0767149		Turntable Access, ManSaver Bar, Yellow	1
379	0804860		Waterway, 100AAT	1
			Aerial Waterway Drain 100AAT - Standard Location, Right Side	
380	0730399		Valves, (2) TFT VUM (Valve Under Monitor), Manual	1
381	0764417		Monitors, (2), TFT Monsoon, Y4-MP1A-P-01 Manual and Y4-EP1A-P Elec, (Use w/VUM)	1
			Nozzle, Monitor 1, PAP - TFT YST-4NN Tips	
			Nozzle, Monitor 2, PAP - TFT M-ERP2000 Electric 2000 gpm	
382	0086971		Flowmeter, Waterway, MUX, PAP	1
383	0009364		Inlet, 5.00", S/S, w/ Pump, Right Side, 100AAT	1
384	0047897		Tools, Aerial	1
385	0559491		Manuals and Training, 3 Consecutive Days, Platform, English	1
386	0007150		Bag of Nuts and Bolts	1
			Qty, Bag Nuts and Bolts - 1	
387	0047021		Reflective Emergency Triangles, Set of Three	1
			Qty, - 1	
388	0816502		NFPA Required Loose Equipment, Quint, NFPA/ULC 2024, Provided by Fire Dept	1
389	0519913		Not Required, Soft Suction Hose	1

Line	Option	Type	Option Description	Qty
390	0027023		No Strainer Required	1
391	0533246		Extinguisher, 20 lb Dry Chemical	1
			Qty, Extinguishers - 1	
392	0816937		Extinguisher, 2.5 Gal. Pressurized Water, NFPA/ULC 2024, Provided by Fire Dept	1
393	0765595		Ladder Belts, Aerial	1
			Safety Belt, Large/XL - (2) two Large/XL (34"-42" waist)	
			Safety Belt, Small/Medium - 0) small/medium (26"-34" waist)	
			Safety Belt, XXL - (2) two XXL (42"-50" waist)	
394	0007482		Not Required, Crowbars	1
395	0007484		Not Required, Claw Tools	1
396	0816998		Axe, Flathead, Provided by Fire Department	1
397	0817000		Axe, Pickhead, Provided by Fire Department	1
398	0007494		Not Required, Sledgehammers	1
399	0741569		Paint Process / Environmental Requirements, Appleton	1
400	0709567		Paint, Single Color, Enforcer	1
			Paint Color, Cab - #90 Red	
401	0709845		Paint, Single Color, Body	1
			Paint, Body - Match Lower Cab	
402	0646901		Paint Chassis Frame Assy, With Liner, E-Coat, Standard	1
			Paint Color, Frame Assembly, Predefined - Gloss Black	
403	0693797		No Paint Required, Aluminum Front Wheels	1
404	0693792		No Paint Required, Aluminum Rear Wheels	1
405	0733739		Paint, Axle Hubs	1
			Paint, Axle Hub - Lower Job Color	
406	0007230		Compartment, Painted, Spatter Gray	1
407	0792638		Aerial Platform Paint	1
			Paint Color, Aerial Device - White 10	
			Paint Color, Turntable - White 10	
			Paint Color, Boom Support - red 90	
			Paint Color, Cylinders - white 10	
			Paint Color, Aerial Torque Box - black 101 paint	
			Paint Color, Aerial Stabilizers - black 101	
			Paint Color, Aerial Basket - white 10	
			Paint Color, Aerial Rotation Motor - White 10	
			Paint Color, Aerial Control Console - white 10	
408	0544111		Reflective Band, 10"	1
			Color, Reflect Band - A - a) white	
409	0007356		Reflective across Cab Face	1
410	0583454		Stripe, Chevron, Rear, Diamond Grade, Aerial	1
			Color, Rear Chevron DG - fluorescent yellow green	
411	0598754		Stripe, Reflective/Diamond Grade, 4.00" on Stabilizers	1
			Color, Reflect Band - A - p) fluorescent yellow green diamond grade	
412	0027341		Jog, In Reflective Stripe, Single or Multiple	1
			Qty, - 1	
413	0017359		Stripe, Black Outline, Vinyl on Reflective Band	1
			Qty, - 01	
414	0593225		Stripe, Reflective, Cab Doors Interior, Diamond Grade	1
			Color, Reflect Band - A - p) fluorescent yellow green diamond grade	
415	0027286		Not Required, Lettering Specs	1
416	0007472		[Lettering not Requested]	1
417	0772003		Manual, Fire Apparatus Parts, USB Flash Drive, Custom	1
			Qty, - 01	
418	0772037		Manual, Chassis Service, USB Flash Drive, Custom	1
			Qty, - 01	
419	0773381		Manual, Chassis Operation, (1) USB Flash Drive, Custom, English	1
420	0030008		Warranty, Basic, 1 Year, Apparatus, WA0008	1
421	0735523		Warranty, Engine, Paccar MX13, 5 Year, WA0386	1
422	0684953		Warranty, Steering Gear, Sheppard M110, 3 Year WA0201	1
423	0596017		Warranty, Frame, 50 Year, Custom Chassis, WA0013	1
424	0595698		Warranty, Axle, 3 Year, TAK-4, WA0050	1
425	0733305		Warranty, Tandem Axle, 5 Year, Meritor, General Service, WA0384	1
426	0652758		Warranty, ABS Brake System, 3 Year, Meritor Wabco, WA0232	1
427	0019914		Warranty, Structure, 10 Year, Custom Cab, WA0012	1

Line	Option	Type	Option Description	Qty
428	0744240		Warranty, Paint, 10 Year, Cab, Pro-Rate, WA0055	1
429	0524627		Warranty, Electronics, 5 Year, MUX, WA0014	1
430	0695416		Warranty, Pierce Camera System, WA0188	1
431	0647720		Warranty, Pierce LED Strip Lights, WA0203	1
432	0046369		Warranty, 5-year EVS Transmission, Standard Custom, WA0187	1
433	0685945		Warranty, Transmission Cooler, WA0216	1
434	0688798		Warranty, Water Tank, Lifetime, UPF, Poly Tank, WA0195	1
435	0596025		Warranty, Structure, 10 Year, Body, WA0009	1
436	0693127		Warranty, Gortite, Roll-up Door, 6 Year, WA0190	1
437	0734463		Warranty, Pump, Waterous, 7 Year Parts, WA0382	1
438	0648675		Warranty, 10 Year S/S Pumbing, WA0035	1
439	0641372		Warranty, Foam System, Not Available	1
440	0006999		Warranty, Structure, 20 Year, Aerial Device, WA0052	1
441	0687388		Warranty, Swivels, 5 Year, Aerial Device, WA0197	1
442	0685727		Warranty, Hydraulic System and Components, 3 Year/5 Year, WA0200	1
443	0687327		Warranty, Waterway, 10 Year, Aerial Device, WA0198	1
444	0595860		Warranty, Paint, 4 Year, Aerial Device, Pro-Rated, WA0047	1
445	0553455		Warranty, Electronics, 5 Year, MUX, WA0014	1
446	0595820		Warranty, Paint, 10 Year, Body, Pro-Rate, WA0057	1
447	0593921		Not Required, Warranty, No Lettering	1
448	0819254		Certification, Vehicle Stability, CD0196	1
449	0808565		Certification, Engine Installation, Enf, Paccar MX, 2027	1
450	0686786		Certification, Power Steering, CD0098	1
451	0892691		Certification, Cab Integrity, Saber FR/Enforcer, CD0189	1
452	0631973		Certification, Cab Door Durability, Saber FR/Enforcer, CD0137	1
453	0631978		Certification, Windshield Wiper Durability, Saber FR/Enforcer, CD0132	1
454	0631974		Certification, Electric Window Durability, Saber FR/Enforcer, CD0133	1
455	0631977		Certification, Seat Belt Anchors and Mounting, Saber FR/Enforcer, CD0134	1
456	0735949		Certification, Cab HVAC System Performance, SFR/Enf, CD0165/CD0167/CD0174/CD0175	1
457	0545073		Amp Draw Report, NFPA Current Edition	1
458	0002758		Amp Draw, NFPA/ULC Radio Allowance	1
459	0799248		Appleton/Florida BTO	1
460	0000053		Ascendant Tower	1
461	0000012		PIERCE CHASSIS	1
462	0735525		PACCAR MX13 ENGINE	1
463	0046396		EVS 4000 Series TRANSMISSION	1
464	0830902		WATEROUS PUMP ESU1 AAT	1
465	0020009		POLY TANK	1
466	0028047		NO FOAM SYSTEM	1
467	0020006		SIDE CONTROL	1
468	0020007		AKRON VALVES	1
469	0020015		ABS SYSTEM	1
470	0658751		PUMPER BASE	1



Proposal Details Report

5/20/2026

Customer: San Angelo FD
Representative Brunett, John
Requirements Manager:
Description: Enforcer 100' Tower Quint
Chassis: Enforcer Chassis, 100AAT
Body: Aerial, 100AAT, Alum Body

Bid Number: 1310
Job Number:
Organization: Siddons-Martin Emergency Group

OptionCode	Type	Option	ProposalText
0010012		No Boiler Plates requested	
0018180		Single Source Compliance, Aerials	SINGLE SOURCE MANUFACTURER Pierce Manufacturing, Inc. provides an integrated approach to the design and manufacture of our products that delivers superior apparatus and a dedicated support team. From our facilities, the chassis, cab weldment, cab, pump house (including the sheet metal enclosure, valve controls, piping and operators panel) body and aerial device will be entirely designed, tested, and hand assembled to the customer's exact specifications. The electrical system either hardwired or multiplexed, will be both designed and integrated by Pierce Manufacturing. The warranties relative to these major components (excluding component warranties such as engine, transmission, axles, pump, etc.) will be provided by Pierce as a single source manufacturer. Pierce's single source solution adds value by providing a fully engineered product that offers durability, reliability, maintainability, performance, and a high level of quality.
0584456		Manufacture Location, Appleton, Wisconsin	Your apparatus will be manufactured in Appleton, Wisconsin.
0584452		RFP Location: Appleton, Wisconsin	
0588609		Vehicle Destination, US	
0833432	SP	Aerial DAS-3	
0816491		Comply NFPA 1900 Changes Effective Jan 1, 2024, With Exceptions	NFPA 2024 STANDARDS This unit will comply with the NFPA standards effective January 1, 2024, except for fire department directed exceptions. These exceptions will be set forth in the Statement of Exceptions. Certification of slip resistance of all stepping, standing and walking surfaces will be supplied with delivery of the apparatus. All horizontal surfaces designated as a standing or walking surface that are greater than 48.00" above the ground must be defined by a 1.00" wide line along its outside perimeter. Perimeter markings and designated access paths to destination points will be identified on the customer approval print and are shown as approximate. Actual location(s) will be determined based on materials used and actual conditions at final build. Access paths may pass through hose storage areas and opening or removal of covers or restraints may be required. Access paths may require the operation of devices and equipment such as the aerial device or ladder rack. A plate that is highly visible to the driver while seated will be provided. This plate will show the overall height, length, and gross vehicle weight rating. The manufacturer will have programs in place for training, proficiency testing and performance for any staff involved with certifications. An official of the company will designate, in writing, who is qualified to witness and certify test results.
0533351		Quint Fire Apparatus	
0588612		Vehicle Certification, Aerial w/Pump	

0681278	Agency, Apparatus Certification, Aerial w/Pump, U.L.	NFPA COMPLIANCY Apparatus proposed by the bidder will meet the applicable requirements of the National Fire Protection Association (NFPA) as stated in current edition at time of contract execution. Fire department's specifications that differ from NFPA specifications will be indicated in the proposal as "non-NFPA". INSPECTION CERTIFICATE A third party inspection certificate for the aerial device will be furnished upon delivery of the aerial device. The certificate will be Underwriters Laboratories Inc. Type 1 and will indicate that the aerial device has been inspected on the production line and after final assembly. Visual structural inspections will be performed on all welds on both aluminum and steel ladders. On critical weld areas, or on any suspected defective area, the following tests will be conducted: Magnetic particle inspection will be conducted on steel aerials to assure the integrity of the weldments and to detect any flaws or weaknesses. Magnets will be placed on each side of the weld while iron powder is placed on the weld itself. The powder will detect any crack that may exist. This test will conform to ASTM E709 and be performed prior to assembly of the aerial device. A liquid penetrant test will be conducted on aluminum aerials to assure the integrity of the weldments and to detect any flaws or weaknesses. This test will conform to ASTM E165 and be performed prior to assembly of the aerial device. Ultrasonic inspection will be conducted on all aerials to detect any flaws in pins, bolts and other critical mounting components. In addition to the tests above, functional tests, load tests, and stability tests will be performed on all aerials. These tests will determine any unusual deflection, noise, vibration, or instability characteristics of the unit. PUMP TEST The pump will be tested, approved and certified by Underwriter's Laboratory at the manufacturer's expense. The test results and the pump manufacturer's certification of hydrostatic test; the engine manufacturer's certified brake horsepower curve; and the manufacturer's record of pump construction details will be forwarded to the Fire Department. GENERATOR TEST If the unit has a generator, the generator will be tested, approved, and certified by Underwriters Laboratories at the manufacturer's expense. The test results will be provided to the Fire Department at the time of delivery. BREATHING AIR TEST If the unit has breathing air, Pierce Manufacturing will draw an air sample from the air system and certify that the air quality meets the requirements of NFPA 1989, <i>Standard on Breathing Air Quality for Fire and Emergency Services Respiratory Protection</i>.
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0816495	Certification, Vehicle Inspection Program, NFPA 1900	VEHICLE INSPECTION PROGRAM CERTIFICATION To assure the vehicle is built to current NFPA 1900 standards, the apparatus, in its entirety, will be third-party, independent, audit-certified through Underwriters Laboratory (UL) that it is built and complies to all applicable standards in the current edition. The certification includes: all design, production, operational, and performance testing of not only the apparatus, but those components that are installed on the apparatus. A placard will be affixed in the driver's side area stating the third party agency, the date, the standard and the certificate number of the whole vehicle audit.
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0536644	Customer Service Website	AFTERMARKET SUPPORT WEBSITE Pierceparts.com will provide <u>Pierce authorized dealer</u> access to comprehensive information pertaining to the maintenance and service of their customer's apparatus. This tool will provide the Pierce authorized dealer the ability to service and support their customers to the best of their ability with factory support at their fingertips. Pierceparts.com is also accessible to the end user through the guest login. Limited access is available and vehicle specific parts information accessible by entering a specific VIN number. All end users should see their local authorized Pierce dealer for additional support and service. The website will consist of the following screens at the dealer level: My Fleet Screen The My Fleet screen will provide access to truck detail information on the major components of the vehicle, warranty information, available vehicle photographs, vehicle drawings, sales options, applicable vehicle software downloads, etc. Parts Screens The Parts screens will provide parts look-up capability of Pierce Manufacturing sourced items, with the aid of digital photographs, part drawings and assembly drawings. The parts search application will permit the searching of parts by item description or function group (major system category). The parts application will provide the ability to submit electronically a parts order, parts quote, or parts return request directly to Pierce Manufacturing for processing. Warranty Screen The Warranty screens will provide dealers the ability to submit electronically warranty claims directly to Pierce Manufacturing for reimbursement. My Reports Screens The My Reports screens will provide access to multiple dealer reports to allow the dealership to maintain communication with the customer on the status of orders, claims, and phone contacts. Technical Support Screens The Technical Support screens will provide access to all currently published Operation and Maintenance and Service Publications. Access to Pierce Manufacturing Service Bulletins and Work Instructions, containing information on current service topics and recommendations will be provided. Training The Training screens will provide access to upcoming training classes offered by Pierce Manufacturing along with interactive electronic learning modules (Operators Guides) covering the operation of major vehicle components will be provided. Access to training manuals used in Pierce Manufacturing training classes will be provided. About Pierce Access to customer service articles, corporate news, quarterly newsletters, and key contacts within the Customer Service Department will be provided. The current Customer Service Policy and Procedure Manual, detailing the operation of the Customer Service group will also be accessible.
0537375	Unit of Measure, US Gallons	
0030006	Bid Bond Not Requested	BID BOND NOT REQUESTED A bid bond will not be included. If requested, the following will apply: All bidders will provide a bid bond as security for the bid in the form of a 5 percent bid bond to accompany their bid. This bid bond will be issued by a Surety Company who is listed on the U.S. Treasury Departments list of acceptable sureties as published in Department Circular 570. The bid bond will be issued by an authorized representative of the Surety Company and will be accompanied by a certified power of attorney dated on or before the date of bid. The bid bond will include language, which assures that the bidder/principal will give a bond or bonds as may be specified in the bidding or contract documents, with good and sufficient surety for the faithful performance of the contract, including the Basic One (1) Year Limited Warranty, and for the prompt payment of labor and material furnished in the prosecution of the contract. Notwithstanding any document or assertion to the contrary, any surety bond related to the sale of a vehicle will apply only to the Basic One (1) Year Limited Warranty for such vehicle. Any surety bond related to the sale of a vehicle will not apply to any other warranties that are included within this bid (OEM or otherwise) or to the warranties (if any) of any third party of any part, component, attachment or accessory that is incorporated into or attached to the vehicle. In the event of any contradiction or inconsistency between this provision and any other document or assertion, this provision will prevail.

0816569	Performance Bond, Not Requested, PPI Terms	PERFORMANCE BOND NOT REQUESTED A performance bond will not be included. If requested at a later date, one will be provided to you for an additional cost and the following will apply: The successful bidder will furnish a Performance and Payment bond (Bond) equal to 100 percent of the total contract amount within 30 days of the notice of award. Such Bond will be in a form acceptable to the Owner and issued by a surety company included within the Department of Treasury's Listing of Approved Sureties (Department Circular 570) with a minimum A.M. Best Financial Strength Rating of A and Size Category of XV. In the event of a bond issued by a surety of a lesser Size Category, a minimum Financial Strength rating of A+ is required. Bidder and Bidder's surety agree that the Bond issued hereunder, whether expressly stated or not, also includes the surety's guarantee of the vehicle manufacturer's Bumper to Bumper warranty period included within this proposal. Owner agrees that the penal amount of this bond will be simultaneously amended to 25 percent of the total contract amount upon satisfactory acceptance and delivery of the vehicle(s) included herein. Notwithstanding anything contained within this contract to the contrary, the surety's liability for any warranties of any type will not exceed three (3) years from the date of such satisfactory acceptance and delivery, or the actual Bumper to Bumper warranty period, whichever is shorter. Due to global supply chain constraints, any delivery date contained herein is a good faith estimate as of the date of this order/contract, and merely an approximation based on current information. Delivery updates will be made available, and a final firm delivery date will be provided as soon as possible. If the Producer Price Index of Components for Manufacturing [www.bls.gov Series ID: WPUID6112] ("PPI") has increased at a compounded annual growth rate of 5.0% or more between the month Pierce accepts the order ("Order Month") and a month 14 months prior to the then predicted Ready For Pickup date ("Evaluation Month"), then pricing may be updated in an amount equal to the increase in PPI over 5.0% for each year or fractional year between the Order Month and the Evaluation Month. The seller will document any such updated price for the customer's approval before proceeding and provide an option to cancel the order.
0000007	Approval Drawing	APPROVAL DRAWING A drawing of the proposed apparatus will be prepared and provided to the purchaser for approval before construction begins. The Pierce sales representative will also be provided with a copy of the same drawing. The finalized and approved drawing will become part of the contract documents. This drawing will indicate the chassis make and model, location of the lights, siren, horns, compartments, major components, etc. A "revised" approval drawing of the apparatus will be prepared and submitted by Pierce to the purchaser showing any changes made to the approval drawing.
0002928	Electrical Diagrams	ELECTRICAL WIRING DIAGRAMS Two (2) electrical wiring diagrams, prepared for the model of chassis and body, will be provided.
0729149	Enforcer Chassis, 100AAT	ENFORCER CHASSIS The Pierce Enforcer™ is the custom chassis developed exclusively for the fire service. Chassis provided will be a new, tilt-type custom fire apparatus. The chassis will be manufactured in the apparatus body builder's facility eliminating any split responsibility. The chassis will be designed and manufactured for heavy-duty service, with adequate strength, capacity for the intended load to be sustained, and the type of service required. The chassis will be the manufacturer's first line tilt cab.
0000110	Wheelbase	WHEELBASE The wheelbase of the vehicle will be 271.00.
0000070	GVW Rating	GVW RATING The gross vehicle weight rating will be 78,000#.
0729280	Frame Rails, 13.38 x 3.50 x .375, Enforcer	FRAME The chassis frame will be built with two (2) steel channels bolted to five (5) cross members or more, depending on other options of the apparatus. The side rails will have a 13.38" tall web over the front and mid sections of the chassis, with a continuous smooth taper to 10.75" over the rear axle. Each rail will have a section modulus of 25.992 cubic inches and a resisting bending moment (rbm) of 3,119,040 in-lb over the critical regions of the frame assembly, with a section modulus of 18.96 cubic inches with an rbm of 2,275,200 in-lb over the rear axle. The frame rails will be constructed of 120,000 psi yield strength heat-treated 0.38" thick steel with 3.50" wide flanges.
0889473	Frame Liner, "C/Inv L" 12.50" x 3.00" x .25", AXT/Vel/Imp/Enf, 57" Qval	FRAME REINFORCEMENT In addition, a mainframe internal liner will be provided. The liner will be an internal "C" design that steps to an internal "L" design over the rear axle. It will be heat-treated steel measuring 12.50" x 3.00" x 0.25" through the front portion of the liner, stepping to 9.38" x 3.00" x 0.25" through the rear portion of the liner. Each liner will have a section modulus of 13.58 cubic inches, yield strength of 110,000 psi, and rbm of 1,494,042 in-lb. Total rbm at wheelbase center will be 4,391,869 in-lb. The frame liner will be mounted inside of the chassis frame rail and extend the full length of the frame.

0796912	Axle, Front, Oshkosh TAK-4, Non Drive, 24,000 lb, Enforcer	FRONT NON DRIVE AXLE The Oshkosh TAK-4® front axle will be of the independent suspension design with a ground rating of 24,000 lb. Upper and lower control arms will be used on each side of the axle. Upper control arm castings will be made of 100,000-psi yield strength 8630 steel and the lower control arm casting will be made of 55,000-psi yield ductile iron. The center cross members and side plates will be constructed out of 80,000-psi yield strength steel. Each control arm will be mounted to the center section using elastomer bushings. These rubber bushings will rotate on low friction plain bearings and be lubricated for life. Each bushing will also have a flange end to absorb longitudinal impact loads, reducing noise and vibrations. There will be nine (9) grease fittings supplied, one (1) on each control arm pivot and one (1) on the steering gear extension. The upper control arm will be shorter than the lower arm so that wheel end geometry provides positive camber when deflected below rated load and negative camber above rated load. Camber at load will be 0 degrees for optimum tire life. The ball joint bearing will be of low friction design and be maintenance free. Toe links that are adjustable for alignment of the wheel to the center of the chassis will be provided. The wheel ends will have little to no bump steer when the chassis encounters a hole or obstacle. The steering linkage will provide proper steering angles for the inside and outside wheel, based on the vehicle wheelbase. The axle will have a turning angle of up to 45 degrees.
0090914	Suspension, Front TAK-4, 24,000 lb, Qtm/AXT/Vel/Enf/SFR	FRONT SUSPENSION Front Oshkosh TAK-4™ independent suspension will be provided with a minimum ground rating of 24,000 lb. The independent suspension system has been designed to provide maximum ride comfort. The design will allow the vehicle to travel at highway speeds over improved road surfaces and at moderate speeds over rough terrain with minimal transfer of road shock and vibration to the vehicle's crew compartment. Each wheel will have a torsion bar type spring. In addition, each front wheel end will also have energy absorbing jounce bumpers to prevent bottoming of the suspension. The suspension design will be such that there is at least 10.00" of total wheel travel and a minimum of 3.75" before suspension bottoms. The torsion bar anchor lock system allows for simple lean adjustments, without the use of shims. One can adjust for a lean within 15 minutes per side. Anchor adjustment design is such that it allows for ride height adjustment on each side. The independent suspension was put through a durability test that simulated 140,000 miles of inner city driving.
0087572	Shock Absorbers, KONI, TAK-4, Qtm/AXT/Imp/Vel/Enf	FRONT SHOCK ABSORBERS KONI heavy-duty telescoping shock absorbers will be provided on the front suspension.
0000322	Oil Seals, Front Axle	FRONT OIL SEALS Oil seals with viewing window will be provided on the front axle.
0679621	Tires, Front, Michelin, XZY3 (wb), 425/65R22.50, 20 ply, Fire Service Load Rtnng	FRONT TIRES Front tires will be Michelin 425/65R22.50 radials, 20 ply all-position XZY3 wide base tread, rated for 24,400 lb maximum axle load and 65 mph maximum speed.
0019611	Wheels, Front, Alcoa, 22.50" x 12.25", Aluminum, Hub Pilot	The tires will be mounted on Alcoa 22.50" x 12.25" polished aluminum disc type wheels with a ten (10) stud, 11.25" bolt circle.
0728953	Axle, Rear, Meritor RT52-185, 54,000 lb, Enf, 100AAT	REAR AXLE The rear axle will be a Meritor™, Model RT-52-185, tandem axle assembly with a capacity of 54,000 lb. An inter-axle differential, which divides torque evenly between axles, will be provided on the rear axle with an indicator light mounted on the cab instrument panel. The inter-axle lock will be controlled by a pneumatic switch located in the cab within the reach of the driver.
0544244	Top Speed of Vehicle, 60 MPH/96 KPH	TOP SPEED OF VEHICLE A rear axle ratio will be furnished to allow the vehicle to reach a top speed of 60 mph/96KPH.
0660628	Suspen, Rear, Air Link, AL- 520, Air Ride, 54,000 lb	REAR SUSPENSION Rear suspension will be Link® combination air ride and walking beam with a ground rating of 54,000 lb.
0000485	Oil Seals, Rear Axle	REAR OIL SEALS Oil seals will be provided on the rear axle(s).

0792675	Tires, Rear, Michelin, X WORKS Z, 315/80R22.50, LRL, Tandem	REAR TIRES Rear tires will be eight (8) Michelin 315/80R22.50 radials, load range L, X® WORKS™ Z, rated for 66,160 lb maximum axle load and 68 mph maximum speed.
0019653	Wheels, Rear, Alcoa, 22.50" x 9.00", Aluminum, Hub Pilot, Tandem	The tires will be mounted on Alcoa® 22.50" x 9.00" polished aluminum disc wheels with a ten (10) stud 11.25" bolt circle.
0568081	Tire Balancing, Counteract Beads	TIRE BALANCE All tires will be balanced with Counteract balancing beads. The beads will be inserted into the tire and eliminate the need for wheel weights.
0620569	Tire Pressure Monitoring, RealWheels, AirSecure, Valve Cap, Tandem Axle	TIRE PRESSURE MANAGEMENT There will be a RealWheels LED AirSecure™ tire alert pressure management system provided, that will monitor each tire's pressure. A sensor will be provided on the valve stem of each tire for a total of 10 tires. The sensor will calibrate to the tire pressure when installed on the valve stem for pressures between 10 and 200 psi. The sensor will activate an integral battery operated LED when the pressure of that tire drops 5 to 8 psi. Removing the cap from the sensor will indicate the functionality of the sensor and battery. If the sensor and battery are in working condition, the LED will immediately start to flash.
0801909	Lug Nut, Covers, Chrome	CHROME LUG NUT COVERS Chrome plastic lug nut covers will be supplied on front and rear wheels.
0003245	Axle Hub Covers w/center hole, S/S, Front Axle	FRONT HUB COVERS Stainless steel hub covers will be provided on the front axle. An oil level viewing window will be provided.
0013241	Axle Hub Covers, Rear, S/S High Hat (Tandem)	REAR HUB COVERS Stainless steel, high hat, hub covers will be provided on the rear axle hubs.
0002045	Mud Flap, Front and Rear, Pierce Logo	MUD FLAPS Mud flaps with a Pierce logo will be installed behind the front and rear wheels.
0766669	Chocks, Wheel, SAC-44-E, Folding, 100AAT	WHEEL CHOCKS There will be one (1) pair of folding Ziamatic, Model SAC-44-E, aluminum alloy, Quick-Choc wheel blocks, with easy-grip handle provided.
0766668	Mounting Brackets, Chocks, SAC-44-E, Folding, Horizontal, 100AAT	Wheel Chock Brackets There will be one (1) pair of Zico, Model SQCH-44-H, horizontal mounting wheel chock brackets provided for the Ziamatic, Model SAC-44-E, folding wheel chocks. The brackets will be made of aluminum and consist of a quick release spring loaded rod to hold the wheel chocks in place. The brackets will be mounted rearward of the left side rear tire.

0593759	ESC/ABS/ATC Wabco Brake System, Tandem Rear Axle	ELECTRONIC STABILITY CONTROL A vehicle control system will be provided as an integral part of the ABS brake system from Meritor Wabco. The system will monitor and update the lateral acceleration of the vehicle and compare it to a critical threshold where a side roll event may occur. If the critical threshold is met, the vehicle control system will automatically reduce engine RPM, engage the engine retarder (if equipped), and selectively apply brakes to the individual wheel ends of the front and rear axles to reduce the possibility of a side roll event. The system will monitor directional stability through a lateral accelerometer, steer angle sensor and yaw rate sensor. If spinout or drift out is detected, the vehicle control system will selectively apply brakes to the individual wheel ends of the front and rear axles to bring the vehicle back to its intended direction. ANTI-LOCK BRAKE SYSTEM The vehicle will be equipped with a Wabco 6S6M, anti-lock braking system. The ABS will provide a six (6) channel anti-lock braking control on both the front and rear wheels. A digitally controlled system that utilizes microprocessor technology will control the anti-lock braking system. Each wheel will be monitored by the system. When any wheel begins to lockup, a signal will be sent to the control unit. This control unit will then reduce the braking of that wheel for a fraction of a second and then reapply the brake. This anti-lock brake system will eliminate the lockup of any wheel thus helping to prevent the apparatus from skidding out of control. AUTOMATIC TRACTION CONTROL An anti-slip feature will be included with the ABS. The Automatic Traction Control will be used for traction in poor road and weather conditions. The Automatic Traction Control will act as an electronic differential lock that will not allow a driving wheel to spin, thereby supplying traction at all times. The ABS electronic control unit (ECU) will work with the engine ECU, sharing information concerning wheel slip. Engine ECU will use information to control engine speed, allowing only as much throttle application as required for the available traction, regardless of how much the driver is asking for. An "off road traction" switch will be provided on the instrument panel. Activation of the switch will allow additional tire slip to let the truck climb out and get on top of deep snow or mud.
0030185	Brakes, Knorr/Bendix 17", Disc, Front, TAK-4	BRAKES The service brake system will be full air type. The front brakes will be Knorr/Bendix disc type with a 17.00" ventilated rotor for improved stopping distance. The brake system will be certified, third party inspected, for improved stopping distance.
0000730	Brakes, Meritor, Cam, Rear, 16.50 x 7.00"	The rear brakes will be Meritor™ 16.50" x 7.00" cam operated with automatic slack adjusters. Dust shields will be provided.
0735527	Air Compressor, Brake, Wabco 26.8 CI, Paccar	AIR COMPRESSOR, BRAKE SYSTEM The air compressor will be a Wabco single piston compressor with a 26.8 CI displacement.
0637583	Brake Reservoirs, 6,408 Cubic Inch Minimum Capacity, Saber FR/Enforcer	BRAKE SYSTEM The brake system will include: - Brake treadle valve - Heated automatic moisture ejector on air dryer - Total air system capacity of 6,408 cubic inches - Two (2) air pressure gauges with a red warning light and an audible alarm, that activates when air pressure falls below 60 psi - Spring set parking brake system - Parking brake operated by a push-pull style control valve - A parking "brake on" indicator light on instrument panel - Park brake relay/inversion and anti-compounding valve, in conjunction with a double check valve system, will be provided with an automatic spring brake application at 40 psi - A pressure protection valve to prevent all air operated accessories from drawing air from the air system when the system pressure drops below 80 psi (550 kPa) 1/4 turn drain valves on each air tank The air tank will be primed and painted to meet a minimum 750 hour salt spray test. The air tanks will be painted same as frame color. To reduce the effects of corrosion, the air tank will be mounted with stainless steel brackets.
0790412	Air Dryer, Wabco System Saver 1200 IWT, Heated, SFR/Enf	BRAKE SYSTEM AIR DRYER The air dryer will be a WABCO System Saver 1200 IWT, with internal wet tank, spin-on coalescing filter cartridge and 100 watt heater.
0000790	Brake Lines, Nylon	BRAKE LINES Color-coded nylon brake lines will be provided. The lines will be wrapped in a heat protective loom in the chassis areas that are subject to excessive heat.
0000854	Air Inlet, w/Disconnect Coupling	AIR INLET One (1) air inlet with 3D series male coupling will be provided. It will allow station air to be supplied to the apparatus brake system through a shoreline hose. The inlet will be located forward in the driver side lower step well of cab. A check valve will be provided to prevent reverse flow of air. The inlet will discharge into the "wet" tank of the brake system. A mating female fitting will also be provided with the loose equipment.

0586772	Box, Recessed, Alum Treadplate, for Air Fitting	RECESSED BOX FOR AIR FITTING One (1) air inlet will have an aluminum treadplate recessed box provided forward in driver side step well of cab.. The box(es) will allow the air fitting to be recessed inside the stepwell to prevent damage.
0070810	All Wheel Lockup (Aerial/Tanker Chassis)	ALL WHEEL LOCK-UP An additional all wheel lock-up system will be installed which applies air to the front brakes only. The standard spring brake control valve system will be used for the rear.
0808515	Engine, Paccar MX, 510HP, 1850 lb-ftW/OBD, EPA 2027, Saber FR/Enforcer	ENGINE The chassis will be powered by an electronically controlled engine as described below: Make: Paccar Model: MX Power: 510 hp at 1600rpm Torque: 1850 lb-ft at 1000rpm Governed Speed: 1900 rpm Emissions Certification: EPA 2027 Fuel: Diesel Cylinders: Six (6) Displacement: 12.9L Starter: DP60 Fuel Filters: Dual cartridge style with check valve, water separator, and water in fuel sensor The engine will include On-board diagnostics (OBD), which provides self diagnostic and reporting. The system will give the owner or repair technician access to state of health information for various vehicle sub systems. The system will monitor vehicle systems, engine and after treatment. The system will illuminate a malfunction indicator light on the dash console if a problem is detected.
0811409	Not Required, Engine Contingency Adjustment	
0001244	High Idle w/Electronic Engine, Custom	HIGH IDLE A high idle switch will be provided, inside the cab, on the instrument panel, that will automatically maintain a preset engine rpm. A switch will be installed, at the cab instrument panel, for activation/deactivation. The high idle will be operational only when the parking brake is on and the truck transmission is in neutral. A green indicator light will be provided, adjacent to the switch. The light will illuminate when the above conditions are met. The light will be labeled "OK to Engage High Idle."
0735687	Engine Brake, Fully Integrated, Paccar MX13 Engine	ENGINE BRAKE The compression release brake option is a fully integrated MX engine braking system. It utilizes the turbocharger and back pressure valve, but adds in a hydraulically operated compression brake to increase overall retarding power. To maximize the effectiveness of the compression brake the MX engine brake system works in conjunction with the turbocharger and back pressure valve. The driver will be able to turn the engine brake system on/off and have a high, medium and low setting.
0644227	Clutch, Fan, Air Actuated, Saber FR/Enforcer	CLUTCH FAN A fan clutch will be provided. The fan clutch will be automatic when the pump transmission is in "Road" position, and constantly engaged when in "Pump" position.
0640477	Air Intake, Metal Screen, Saber FR/Enforcer	ENGINE AIR INTAKE The engine air intake will be located above the engine cooling package. It will draw fresh air from the front of the apparatus through the radiator grille. A stainless steel metal screen will be installed at the inlet of the air intake system that will meet current edition of applicable NFPA standards. The air cleaner and stainless steel screen will be easily accessible by tilting the cab.

0814375	Exhaust System, Horizontal, Right Side	EXHAUST SYSTEM The exhaust system will be stainless steel from the turbo to the engine's aftertreatment device. The exhaust system will include an aftertreatment device to meet current EPA standards. An insulation wrap will be provided on all exhaust pipe between the turbo and the aftertreatment device to minimize the transfer of heat to the cab. The exhaust will terminate horizontally ahead of the right side rear wheels and will extend 2.00" past the body rub rail. The exhaust pipes will be aluminized steel. There will be an aluminized steel exhaust diffuser with a standard straight tip on the end provided to reduce the temperature of the exhaust as it exits. Heat deflector shields will be provided to isolate chassis and body components from the heat of the tailpipe diffuser.
0788765	Radiator, Saber FR/Enforcer	RADIATOR The radiator and the complete cooling system will meet or exceed the current edition of applicable NFPA and engine manufacturer cooling system standards. For maximum corrosion resistance and cooling performance, the entire radiator core will be constructed using long life aluminum alloy. The radiator core will consist of aluminum fins, having a serpentine design, brazed to aluminum tubes. The radiator core will have a minimum front area of 1060 square inches. Supply tank will be made of heavy duty glass-reinforced nylon and the return tank will be made of aluminum. Both tanks will be crimped onto the core assembly using header tabs and a compression gasket to complete the radiator core assembly. There will be a full steel frame around the inserts to enhance cooling system durability and reliability. The radiator will be compatible with commercial antifreeze solutions. The radiator assembly will be isolated from the chassis frame rails with rubber isolators to prevent the development of leaks caused by twisting or straining when the apparatus operates over uneven terrain. The radiator will include a de-aeration/expansion tank. For visual coolant level inspection, the radiator will have a built-in sight glass. The radiator will be equipped with a 15 psi pressure relief cap. A drain port will be located at the lowest point of the cooling system and/or the bottom of the radiator to permit complete flushing of the coolant from the system. Shields or baffles will be provided to prevent recirculation of hot air to the inlet side of the radiator.
0001090	Cooling Hoses, Rubber	COOLANT LINES Gates, or Goodyear, rubber hose will be used for all engine coolant lines installed by Pierce Manufacturing. Hose clamps will be stainless steel constant torque type to prevent coolant leakage. They will expand and contract according to coolant system temperature thereby keeping a constant clamping pressure on the hose.
0803687	Fuel Tank, 65 Gallon, Left Side Fill, Rear Air Suspension	FUEL TANK A 65 gallon fuel tank will be provided and mounted at the rear of the chassis. The tank will be constructed of 12-gauge, hot rolled steel. It will be equipped with swash partitions and a vent. To reduce the effects of corrosion, the fuel tank will be mounted with stainless steel straps. A 0.75" drain plug will be provided in a low point of the tank for drainage. A fill inlet will be located on the left hand side of the body and be covered with a hinged, spring loaded, stainless steel door that is marked "Ultra Low Sulfur - Diesel Fuel Only". A 0.50" diameter vent will be provided running from top of tank to just below fuel fill inlet. The tank will meet all FHWA 393.67 requirements, including a fill capacity of 95 percent of tank volume.
0001129	Lines, Fuel	All fuel lines will be provided as recommended by the engine manufacturer.
0734655	DEF Tank, 7.3 Gallon, LS Fill, Under Cab, Paccar, Fill Dr, ENF	DIESEL EXHAUST FLUID TANK A 7.3 gallon diesel exhaust fluid (DEF) tank will be provided and mounted under the cab on the driver's side. A fill inlet will be provided on the driver's side of the cab. The door will be vertically hinged and secured by a SouthCo M1 medium stainless steel push to close latch and be painted. The tank will meet the engine manufacturers requirement for 10 percent expansion space in the event of tank freezing. The tank will include an integrated heater unit that utilizes engine coolant to thaw the DEF in the event of freezing.
0552793	Not Required, Fuel Priming Pump	
0552712	Not Required, Shutoff Valve, Fuel Line	
0699437	Cooler, Chassis Fuel, Not Req'd.	
0011125	Door, Fuel Fill Painted Job Color	FUEL FILL DOOR Fuel fill door will be painted job color.

0690880	No Selection Required From This Category	
0801890	Trans, Allison 6th Gen, 4500 EVS P, w/Prognostics, Imp/Vel/Enf	TRANSMISSION An Allison 6th generation, Model EVS 4500P, electronic, torque converting, automatic transmission will be provided. The transmission will be equipped with prognostics to monitor oil life, filter life, and transmission health. A wrench icon on the shift selector's digital display will indicate when service is due. Two (2) PTO openings will be located on left side and top of converter housing (positions 8 o'clock and 1 o'clock). A transmission temperature gauge with amber light and buzzer will be installed on the cab instrument panel.
0512762	Transmission, Shifter, 6-Spd, Push Button, 4500, Imp/Vel/Qtm/Enf	TRANSMISSION SHIFTER A six (6)-speed push button shift module will be mounted to right of driver on console. Shift position indicator will be indirectly lit for after dark operation. The transmission ratio will be: 1st - 4.70 to 1.00, 2nd - 2.21 to 1.00, 3rd - 1.53 to 1.00, 4th - 1.00 to 1.00, 5th - 0.76 to 1.00, 6th - 0.67 to 1.00, R - 5.55 to 1.00.
0684459	Transmission Oil Cooler, Modine, External	TRANSMISSION COOLER A Modine plate and fin transmission oil cooler will be provided using engine coolant to control the transmission oil temperature.
0001375	Driveline, Spicer 1810	DRIVELINE Drivelines will be a heavy-duty metal tube and be equipped with Spicer® 1810 universal joints. The shafts will be dynamically balanced before installation. A splined slip joint will be provided in each driveshaft where the driveline design requires it. The slip joint will be coated with Glidecoat® or equivalent.
0734211	Steering, Sheppard M110 w/Tilt, TAK-4, Paccar Pump, w/Cooler, Paccar	STEERING Dual Sheppard, Model M110, steering gears, with integral heavy-duty power steering, will be provided. For reduced system temperatures, the power steering will incorporate an air to oil cooler and Paccar hydraulic pump with integral pressure and flow control. All power steering lines will have wire braided lines with crimped fittings. A tilt and telescopic steering column will be provided to improve fit for a broader range of driver configurations.
0605356	Steering Wheel, 4 Spoke without Controls, Saber FR/Enforcer	STEERING WHEEL The steering wheel will be 18.00" in diameter, have tilting and telescoping capabilities, and a 4-spoke design.
0559647	Pierce Logo on Horn Button	
0725322	Bumper, 15"/Non-Ext, 100AAT, Fab, .25" Steel, Painted, Enf	BUMPER A one (1) piece steel bumper minimum of 10.00" high and 45 degree corners containing a 3/8" bend radius and 1.50" top and bottom flange will be attached to the modular frame extension. The bumper will be extended 15.00" from front face of cab. It will have fully covered stabilizer cylinders that tip within a pocket inside the covers allowing the bumper to be a single wrap around piece. The bumper will be metal finished and painted to match the lower job color of the apparatus. Gravel Pan A gravel pan, constructed of bright aluminum treadplate, will be furnished between the bumper and cab face. The gravel pan will be properly supported from the underside to prevent flexing and vibration of the aluminum treadplate.
0825640	Lift & Tow Package, Enforcer/Velocity, 100AAT	LIFT AND TOW MOUNTS Mounted to the frame extension will be lift and tow mounts. The lift and tow mounts will be designed and positioned to adapt to certain tow truck lift systems. The lift and tow mounts with eyes will be painted the same color as the frame.
0522573	Tow Hooks Not Required, Due to Lift and Tow Package	TOW HOOKS No tow hooks are to be provided. This truck will be equipped with a lift and tow package with integral tow eyes.
0698960	Coating, Top Flange, Front Bumper, Outside Exterior, UL-LX Coating, Black	FRONT BUMPER UL-LX COATING Protective black UL-LX® coating will be provided on the outside exterior of the top front bumper flange. It will not be sprayed on the underside of the flange. The lining will be properly installed by an authorized UL-LX dealer.

0625650	Cab, Enforcer, 7000	CAB The Enforcer cab will be designed specifically for the fire service and manufactured by the chassis builder. The cab will be built by the apparatus manufacturer in a facility located on the manufacturer's premises. For reasons of structural integrity and enhanced occupant protection, the cab will be a heavy duty design, constructed to the following minimal standards. The cab will have 12 main vertical structural members located in the A-pillar (front cab corner posts), B-pillar (side center posts), C-pillar (rear corner posts), and rear wall areas. The A-pillar will be constructed of solid A356-T5 aluminum castings. The B-pillar and C-pillar will be constructed from 0.13" wall extrusions. The rear wall will be constructed of two (2) 2.00" x 2.00" outer aluminum extrusions and two (2) 2.00" x 1.00" inner aluminum extrusions. All main vertical structural members will run from the floor to 4.625" x 3.864" x 0.090" thick roof extrusions to provide a cage-like structure with the A-pillar and roof extrusions being welded into a 0.25" thick corner casting at each of the front corners of the roof assembly. The front of the cab will be constructed of a 0.13" firewall plate, covered with a minimum 0.090" front skin thickness, and reinforced with a full width x 0.50" thick cross-cab support located just below the windshield and fully welded to the engine tunnel. The cross-cab support will run the full width of the cab and weld to each A-pillar, the 0.13" firewall plate, and the front skin. The cab floors will be constructed of 0.125" thick aluminum plate and reinforced at the firewall with an additional 0.375" thick cross-floor support providing a total thickness of 0.50" of structural material at the front floor area. The front floor area will also be supported with two (2) triangular 0.30" wall extrusions that also provides the mounting point for the cab lift. This tubing will run from the floor wireway of the cab to the engine tunnel side plates, creating the structure to support the forces created when lifting the cab. The cab will be 96.00" wide (outside door skin to outside door skin) to maintain maximum maneuverability. The centerline of front axle to the rear of the cab will be 70.00" long. The overall height (from the cab roof to the ground) of approximately 99.00". The overall height listed will be calculated based on a truck configuration with the lowest suspension weight rating, the smallest diameter tires for the suspension, no water weight, no loose equipment weight, and no personnel weight. Larger tires, wheels, and suspension will increase the overall height listed. The floor to ceiling height inside the crew cab will be 54.50" in the center and outboard positions. The crew cab floor will measure 46.00" from the rear wall to the back side of the rear facing seat risers. The medium block engine tunnel, at the rearward highest point (knee level), will measure 61.50" to the rear wall. The big block engine tunnel will measure between 45.00" and 51.50" to the rear wall, depending on the engine. The crew cab will be a totally enclosed design with the interior area completely open to improve visibility and verbal communication between the occupants. The cab will be a full tilt cab style. A 3-point cab mount system with rubber isolators will improve ride quality by isolating chassis vibrations from the cab. CAB ROOF DRIP RAIL For enhanced protection from inclement weather, a drip rail will be furnished on the sides of the cab. The drip rail will be painted to match the cab roof, and bonded to the sides of the cab. The drip rail will extend the full length of the cab roof. FENDER LINERS Full circular inner fender liners in the wheel wells will be provided. PANORAMIC WINDSHIELD A one (1)-piece safety glass windshield will be provided with over 2,775 square inches of clear viewing area. The windshield will be full width and will provide the occupants with a panoramic view. The windshield will consist of three (3) layers: outer light, middle safety laminate, and inner light. The outer light layer will provide superior chip resistance. The middle safety laminate layer will prevent the windshield glass pieces from detaching in the event of breakage. The inner light will provide yet another chip resistant layer. The cab windshield will be bonded to the aluminum windshield frame using a urethane adhesive. A custom frit pattern will be applied on the outside perimeter of the windshield for a finished automotive appearance. WINDSHIELD WIPERS Three (3) electric windshield wipers with washer will be provided that meet FMVSS and SAE requirements. The washer reservoir will be able to be filled without raising the cab.
0747442	Engine Tunnel, X12, MX13, Spray Insulation, Enforcer	ENGINE TUNNEL Engine hood side walls will be constructed of 0.375" aluminum. The top will be constructed of 0.125" aluminum and will be tapered at the top to allow for more driver and passenger elbow room. The engine hood will be insulated for protection from heat and sound. The noise insulation keeps the dBA level within the limits stated in the current edition of applicable NFPA standards. The engine tunnel will be no higher than 17.00" off the crew cab floor.
0887601	Cab Insulation, Enforcer/Saber FR	INTERIOR CAB INSULATION The cab will include 1.00" insulation in the ceiling, 1.50" insulation in the side walls, a minimum of 1.00" insulation in the crew cab floor, and 2.00" insulation in the rear wall to maximize acoustic absorption and thermal insulation.
0633594	Rear Wall, Interior, Adjustable Seating	INTERIOR CREW CAB REAR WALL ADJUSTABLE SEATING (PATENT PENDING) The interior rear wall of the crew cab will have mounting holes every 2.75" to allow for adjustability of the forward facing crew cab seating along the rear wall. Seats will be adjustable with use of simple hand tools allowing departments flexibility of their seating arrangement should their department needs change.

0632103	Rear Wall, Exterior, Cab, Saber FR/Enforcer	CAB REAR WALL EXTERIOR COVERING The exterior surface of the rear wall of the cab will be overlaid with bright aluminum treadplate except for areas that are not typically visible when the cab is lowered.
0728889	Cab Lift, Elec/Hyd, Stabilizer Interlock, Enforcer 100AAT	CAB LIFT A hydraulic cab lift system will be provided consisting of an electric powered hydraulic pump, dual lift cylinders, and necessary hoses and valves. Lift controls will be located on the front area of the body in a convenient location. The cab will be capable of tilting 43 degrees to accommodate engine maintenance and removal. The cab will be locked down by a 2-point normally closed spring loaded hook type latch that fully engages after the cab has been lowered. The system will be hydraulically actuated to release the normally closed locks when the cab lift control is in the raised position and cab lift system is under pressure. When the cab is completely lowered and system pressure has been relieved, the spring loaded latch mechanisms will return to the normally closed and locked position. The hydraulic cylinders will be equipped with a velocity fuse that protects the cab from accidentally descending when the control is located in the tilt position. For increased safety, a redundant mechanical stay arm will be provided that must be manually put in place on the left side between the chassis and cab frame when the cab is in the raised position. This device will be manually stowed to its original position before the cab can be lowered. Cab Lift Interlock The cab lift system will be interlocked to the parking brake. The cab tilt mechanism will be active only when the parking brake is set and the ignition switch is in the on position. If the parking brake is released, the cab tilt mechanism will be disabled. The cab lift safety system will also be interlocked to the front stabilizers in the bumper. The cab tilt mechanism will be active only when the front stabilizers are fully stowed, and fully tilted outboard. The cab tilt mechanism will not allow the front stabilizers to be tilted inboard until the cab has been fully lowered and locked into position.
0828257	Label For Cab Lift, "Q2B Swivel Must be Turned"	CAB TILT LABEL There will be an orange or yellow label located cab lift control that specifies: "Q2B MUST BE TURNED BEFORE RAISING CAB"
0695930	Grille, Bright Finished, Front of Cab, Enforcer	GRILLE A bright finished aluminum mesh grille screen, inserted behind a bright finished grille surround, will be provided on the front center of the cab.
0002224	Scuffplates, S/S At Cab Door Jambs, 4-Door Cab	DOOR JAMB SCUFFPLATES All cab door jambs will be furnished with a 1.00" polished stainless steel scuffplate, mounted on the striker side of the jamb.
0647932	Not Required, Trim, S/S Band, Across Cab Face, AXT/Saber/Enforcer	
0087357	Molding, Chrome on Side of Cab	SIDE OF CAB MOLDING Chrome molding will be provided on both sides of cab.
0772130	Mirrors, Retractable, West Coast Style, Htd/Rmt, w/Htd/Rmt Convex, Marker Light	MIRRORS A Retractable, dual vision, motorized, west coast style mirror, with chrome finish, will be mounted on each side of the front cab door with spring loaded retractable arms. The flat glass and convex glass will be heated and adjustable with remote control within reach of the driver. An amber marker light will be provided on each mirror head.
0517525	Mirrors, 8" K-10 Eyeball, PS Cab Front, Front Cross View	FRONT CROSS VIEW MIRROR There will be one (1) 8.00" diameter eyeball mirror provided on the passenger side front corner of the cab. It will be mounted high, above the windshield. The mirror will provide the driver with a view of the front bumper and the front of the truck. The mirror housing, tubing, clamps and hardware will be constructed of corrosion resistant stainless steel. Mirror head will be K-10, EB50S-S, 8.00" stainless steel housing with three (3) arms.

0648171	Door, Half-Height, Saber FR/Enforcer 4-Door Cab, Level Roof	DOORS To enhance entry and egress to the cab, the forward cab door openings will be a minimum of 37.50" wide x 63.37" high. The crew cab doors will be located on the sides of the cab and will be constructed in the same manner as the forward cab doors. The crew cab door openings will be a minimum of 34.30" wide x 63.37" high. The forward cab and crew cab doors will be constructed of extruded aluminum with a nominal material thickness of 0.093". The exterior door skins will be constructed from 0.090" aluminum. A customized, vertical, pull-down type door handle will be provided on the exterior of each cab door. The finish of the door handle will be chrome/black. The exterior handle will be designed specifically for the fire service to prevent accidental activation, and will provide 4.00" wide x 2.00" deep hand clearance for ease of use with heavy gloved hands. Each door will also be provided with an interior flush, open style paddle handle that will be readily operable from fore and aft positions, and be designed to prevent accidental activation. The interior handles will provide 4.00" wide x 1.25" deep hand clearance for ease of use with heavy gloved hands. The cab doors will be provided with both interior (rotary knob) and exterior (keyed) locks exceeding FMVSS standards. The keys will be Model 751. The locks will be capable of activating when the doors are open or closed. The doors will remain locked if locks are activated when the doors are opened, then closed. A full length, heavy duty, stainless steel, piano-type hinge with a 0.38" pin and 11 gauge leaf will be provided on all cab doors. There will be double automotive-type rubber seals around the perimeter of the door framing and door edges to ensure a weather-tight fit. A chrome handle will be provided on the inside of each cab door for ease of entry. A red webbed grab handle will be installed on the crew cab door stop strap. The grab handles will be securely mounted. The bottom cab step at each cab door location will be located below the cab doors and will be exposed to the exterior of the cab.
0655543	Door Panel, Brushed Stainless Steel, Saber/Enforcer 4-Door Cab	Door Panels The inner cab door panels will be constructed out of brushed stainless steel.
0630636	Controls, Electric Roll-Up Windows, 4dr, 4 Driver Controls, Saber FR/Enforcer	ELECTRIC OPERATED CAB DOOR WINDOWS All four (4) cab doors will be equipped with electric operated windows with one (1) flush mounted automotive style switch on each door. The driver's door will have four (4) switches, one (1) to control each door window. Each switch will allow intermittent or auto down operation for ease of use. Auto down operation will be actuated by holding the window down switch for approximately 1 second.
0620344	Steps, 4-Door Cab, Dual, Saber FR/Enforcer	CAB STEPS A dual step will be provided below each cab and crew cab door. The steps will be designed with a grip pattern punched into bright aluminum treadplate material providing support, slip resistance, and drainage. The steps will be a bolt-in design to minimize repair costs should they need to be replaced. The forward cab steps will be a minimum 25.00" wide, and the crew cab steps will be 21.50" wide with a 7.00" minimum depth. The step design raises the middle step higher and closer to the cab floor, resulting in a 12.50" distance from the step to cab floor in the cab and a 10.25" distance from the step to cab floor in the crew cab. Stepping distances from the ground to first step will be approximately 14.00" and from first step to middle step will be approximately 12.00". The vertical surface of the upper step well will be aluminum treadplate. The first step will be lit by a white 12 volt DC LED light provided on the step.
0770200	Handrail, Exterior, Hansen, Knurled, Alum, LED Backlit, 4-Door Cab	CAB EXTERIOR HANDRAILS A Hansen knurled aluminum handrail will be provided adjacent to each cab and crew cab door opening to assist during cab ingress and egress. Each handrail will be provided with red LED lights. The lights will be activated when the parking brake is applied. The LED lights may be load managed.
0892638	Lights, Cab & Crw Cab Acs Stps, P25, LED w/Bezel, 6lts	STEP LIGHTS There will be six (6) white LED step lights with chrome housing installed for cab and crew cab access steps. One (1) light for the left side cab access steps. Two (2) lights for the left side crew cab access steps. Two (2) lights for the right side crew cab access steps. One (1) light for the right side cab access step. In order to ensure exceptional illumination, each light will provide a minimum of 25 foot-candles (fc) covering an entire 15" x 15" square placed ten (10) inches below the light and a minimum of 1.5 fc covering an entire 30" x 30" square at the same ten (10) inch distance below the light. The lights will be activated when the battery switch is on and the adjacent door is opened.
0583698	Fenders, S/S on cab, Extra Wide, Saber/Enf	FENDER CROWNS Stainless steel fender crowns will be installed at the cab wheel openings.
0557023	Handrail, 10", Below Cab Windshield, Pair	HANDRAILS BELOW CAB WINDSHIELD A 10.00" long x 1.25" diameter handrail will be mounted below the front cab windshield, one (1) on each side. The handrails will be extruded aluminum with a ribbed design to provide a positive gripping surface.

0586967	Grab Handle, Chrome, Specify Location, Qty	GRAB HANDLE(S) There will be two (2) chrome grab handle(s) mounted in the interior of the cab one (1) on the driver and one (1) on the officer side door pan vertical near the upper door panel hinged side, to work as a high grab handle into cab.. The grab handle(s) will be securely mounted.
0630508	Window, Side of C/C, Fixed, PS Only, SFR/Enf	CREW CAB WINDOW One (1) fixed window with tinted glass will be provided on the passenger side of the cab, to the rear of the front cab door. The window will be sized to enhance light penetration into the cab interior and will measure 18.70" wide x 23.75" high with chrome window trim. There will be no window provided on the driver side of the cab.
0786276	Window Tint, Rear Wall, Right Side, Medium Gray	RIGHT SIDE REAR WALL WINDOW TINT The window on the right side of the rear wall will be tinted medium gray.
0786278	Window Tint, Crew Cab Door, Right Side, Medium Gray	RIGHT SIDE ROLLUP CREW CAB DOOR WINDOW TINT The rollup window in the right side crew cab door will be tinted medium gray.
0786283	Window Tint, Behind Cab Door, Right Side, Medium Gray	BEHIND RIGHT SIDE CAB DOOR WINDOW TINT The window behind the right side front cab door will be tinted medium gray.
0786287	Window Tint, Rear Wall, Left Side, Medium Gray	LEFT SIDE REAR WALL WINDOW TINT The window on the left side of the rear wall will be tinted medium gray.
0786289	Window Tint, Crew Cab Door, Left Side, Medium Gray	LEFT SIDE ROLLUP CREW CAB DOOR WINDOW TINT The rollup window in the left side crew cab door will be tinted medium gray.
0806597	Compt, 16.50 W x 36 H x 15 D, RS Side C/C, Dbl Pan, 70" Enf/SFR	STORAGE COMPARTMENT Provided on the right side of the cab, to the rear of the crew cab access door, will be a storage compartment. The compartment will be 16.50" wide x 25.50" high below the cab floor level and 14.00" wide x 10.50" high above the cab floor level x 15.00" deep. There will be one (1) double pan door painted to match the cab exterior with a non-locking D-ring latch. A web strap will be used as a doorstop. The clear door opening will be 10.25" wide x 32.00" high. The exterior of the compartment will be painted to match the cab interior color. The interior of the compartment will be painted to match the cab interior. Compartment Light There will be one (1) white LED strip light provided on the hinged side of the compartment door opening. The lighting will be controlled by an automatic door switch.
0798597	Holder, Cup, Cab/Crewcab, Each, Loc	CUP HOLDER There will be two (2) cup holder(s) provided. Each cup holder will have self-adjusting fingers that automatically grip beverage containers of various sizes. A recess in the cup holder will allow it to hold beverage containers with handles. The cup holder(s) will be located driver and officer side of cab.
0894089	Dash, Heavy Duty Metal, Enforcer	CAB DASH The driver side dash, switch panel located to the right of the driver, and center console will be constructed of metal and painted fire smoke gray. The officer side dash will be a flat top design with an upper beveled edge to provide easy maintenance and will be constructed out of aluminum and painted to match the cab interior. The instrument gauge cluster will be surrounded with a high impact ABS plastic contoured to the same shape of the instrument gauge cluster.
0607217	Mounting Provisions, 3/16" Alum, Full Engine Tunnel, Saber FR/Enforcer	MOUNTING PLATE ON ENGINE TUNNEL Equipment installation provisions will be installed on the engine tunnel. A 0.188" smooth aluminum plate will be bolted to the top surface of the engine tunnel. The plate will follow the contour of the engine tunnel and will run the entire length of the engine tunnel. The plate will be spaced off the engine tunnel 1.00" to allow for wire routing below the plate. The mounting surface will be painted to match the cab interior.

0750824	Cab Interior, Vinyl Headliner, Saber FR/Enforcer, CARE	CAB INTERIOR The cab interior will be constructed of primarily metal (painted aluminum) to withstand the severe duty cycles of the fire service. The engine tunnel will be padded and covered, on the top and sides, with dark silver gray 36 ounce leather grain vinyl resistant to oil, grease, and mildew. For durability and ease of maintenance, the cab interior side walls will be painted aluminum. The rear wall will be painted aluminum. The headliner will be installed in both forward and rear cab sections. Headliner material will be vinyl. A sound barrier will be part of its composition. Material will be installed on an aluminum sheet and securely fastened to interior cab ceiling. The forward portion of the cab headliner will permit easy access for service of electrical wiring or other maintenance needs. All wiring will be placed in metal raceways. CAB INTERIOR UPHOLSTERY The cab interior upholstery will be 36 oz dark silver gray vinyl.
0753903	Cab Interior, Paint Color, Saber FR/Enforcer	CAB INTERIOR PAINT The cab interior metal surfaces, excluding the rear heater panels, will be painted fire smoke gray, vinyl texture paint. The rear heater panels will be painted black, vinyl textured paint.
0052100	Floor, Rubber Padded, Cab & Crew Cab, Saber/Enforcer	CAB FLOOR The cab and crew cab floor areas will be covered with Polydamp™ acoustical floor mat consisting of a black pyramid rubber facing and closed cell foam decoupler. The top surface of the material has a series of raised pyramid shapes evenly spaced, which offer a superior grip surface. Additionally, the material has a 0.25" thick closed cell foam (no water absorption) which offers a sound dampening material for reducing sound levels.
0722696	HVAC, Standard-Duty, Enforcer, CARE	DEFROST/AIR CONDITIONING SYSTEM A ceiling mounted combination heater, defroster and air conditioning system will be installed in the cab above the engine tunnel area. Cab Defroster A 54,000 BTU heater-defroster unit with 690 SCFM of air flow will be provided inside the cab. The heater-defrost will be installed in the forward portion of the cab ceiling. Air outlets will be strategically located in the cab header extrusion per the following: One (1) adjustable outlet directed towards the left side cab window. One (1) adjustable outlet directed towards the right side cab window. Six (6) fixed outlets directed at the windshield. The defroster will be capable of clearing 98 percent of the windshield and side glass when tested under conditions where the cab has been cold soaked at 0 degrees Fahrenheit for 10 hours, and a 2 ounce per square inch layer of frost/ice has been able to build up on the exterior windshield. The defroster system will meet or exceed SAE J382 requirements. Cab/Crew Auxiliary Heater There will be one (1) 31,000 BTU auxiliary heater with 560 SCFM of air flow provided in each outboard rear facing seat riser with a dual scroll blower. An aluminum plenum incorporated into the cab structure to be used to transfer heat to the forward positions. Air Conditioning A condenser will be a 59,644 BTU output that meets and exceeds the performance specification will be mounted on the radiator. The air conditioning system will be capable of cooling the average cab temperature from 100 degrees Fahrenheit to 75 degrees Fahrenheit at 50 percent relative humidity within 30 minutes. The cooling performance test will be run only after the cab has been heat soaked at 100 degrees Fahrenheit for a minimum of 4 hours. The evaporator unit will be installed in the rear portion of the cab ceiling over the engine tunnel. The evaporator will include one (1) high performance heating core, one (1) high performance cooling core with (1) plenum directed to the front and one (1) plenum directed to the rear of the cab. The rear plenum will be covered with a formed plastic cover. The evaporator unit will have a 52,000 BTU at 690 SCFM rating that meets and exceeds the performance specifications. Adjustable air outlets will be strategically located on the forward plenum cover per the following: Four (4) outlets directed towards the seating position on the left side of the cab. Four (4) outlets directed towards the seating position on the right side of the cab. Adjustable air outlets will be strategically located on the rear plenum cover per the following: Minimum of five (5) outlets directed towards crew cab area. A high efficiency particulate air (HEPA) filter will be included for the system. Access to the filter cover will be secured with four (4) screws. The air conditioner refrigerant will be R-134A and will be installed by a certified technician. Climate Control An automotive style controller will be provided to control the heat and air conditioning system within the cab. The controller will have three (3) functional knobs for fan speed, temperature, and air flow distribution (front to rear) control. The system will control the temperature of the cab and crew cab automatically by pushing the center of the fan speed control knob. Rotate the center temperature control knob to set the cab and crew cab temperature. The AC system will be manually activated by pushing the center of the temperature control knob. Pushing the center of the air flow distribution knob will engage the AC for max defrost, setting the fan speeds to 100 percent and directing all air flow to the overhead forward position. The system controller will be located within panel position #12. Gravity Drain Tubes Two (2) condensate drain tubes will be provided for the air conditioning evaporator. The drip pan will have two (2) drain tubes plumbed separately to allow for the condensate to exit the drip pan. No pumps will be provided.

0624005	Sun Visor, Vinyl/Fabric, AXT, Qtm, SFR/Enf	SUN VISORS There will be two (2) vinyl covered sun visors provided. The sun visors will be located above the windshield with one (1) mounted on each side of the cab. There will be a black plastic thumb latch provided to help secure each sun visor in the stowed position.
0622887	Grab Handles, Driver Door Post, Officer Door Post Low, SFR/Enf	GRAB HANDLE A black rubber covered grab handle will be mounted on the door post of the driver and officer's side cab door to assist in entering the cab. The officer's side grab handle will be mounted on the lower portion of the door post. The grab handle will be securely mounted to the post area between the door and windshield.
0693439	Lights, Engine Compt, Custom, Auto Sw, w/Fld Chk Dr Wln 3SC0CDCR, 3" LED Trim	ENGINE COMPARTMENT LIGHTS There will be one (1) Whelen®, Model 3SC0CDCR, 12 volt DC, 3.00" white LED light(s) with Model 3FLANGE, chrome flange kit(s) installed under the cab to be used as engine compartment illumination. These light(s) will be activated automatically when the cab is raised or when the dip stick door is opened.
0631830	Fluid Check Access, Saber FR/Enforcer, Arrow XT	ACCESS TO ENGINE DIPSTICKS For access to the engine oil and transmission fluid dipsticks, there will be a door on the engine tunnel, inside the crew cab. The door will be on the rear wall of the engine tunnel, on the vertical surface. The engine oil dipstick will allow for checking only. The transmission dipstick will allow for both checking and filling. The door will have a rubber seal for thermal and acoustic insulation. One (1) flush lift and turn latch will be provided on the access door.
0583042	Side Roll and Frontal Impact Protection	CAB SAFETY SYSTEM The cab will be provided with a safety system designed to protect occupants in the event of a side roll or frontal impact, and will include the following: A supplemental restraint system (SRS) sensor will be installed on a structural cab member behind the instrument panel. The SRS sensor will perform real time diagnostics of all critical subsystems and will record sensory inputs immediately before and during a side roll or frontal impact event. A slave SRS sensor will be installed in the cab to provide capacity for eight (8) crew cab seating positions. A fault-indicating light will be provided on the vehicle's instrument panel allowing the driver to monitor the operational status of the SRS system. A driver side front air bag will be mounted in the steering wheel and will be designed to protect the head and upper torso of the occupant, when used in combination with the 3-point seat belt. A passenger side knee bolster air bag will be mounted in the modesty panel below the dash panel and will be designed to protect the legs of the occupant, when used in combination with the 3-point seat belt. Air curtains will be provided in the outboard bolster of outboard seat backs to provide a cushion between occupant and the cab wall. Suspension seats will be provided with devices to retract them to the lowest travel position during a side roll or frontal impact event. Seat belts will be provided with pre-tensioners to remove slack from the seat belt during a side roll or frontal impact event. Frontal Impact Protection The SRS system will provide protection during a frontal or oblique impact event. The system will activate when the vehicle decelerates at a predetermined G force known to cause injury to the occupants. The cab and chassis will have been subjected, via third party test facility, to a crash impact during frontal and oblique impact testing. Testing included all major chassis and cab components such as mounting straps for fuel and air tanks, suspension mounts, front suspension components, rear suspensions components, frame rail cross members, engine and transmission and their mounts, pump house and mounts, frame extensions and body mounts. The testing provided configuration specific information used to optimize the timing for firing the safety restraint system. The sensor will activate the pyrotechnic devices when the correct crash algorithm, wave form, is detected. The SRS system will deploy the following components in the event of a frontal or oblique impact event: - Driver side front air bag - Passenger side knee bolster air bag - Air curtains mounted in the outboard bolster of outboard seat backs - Suspension seats will be retracted to the lowest travel position - Seat belts will be pre-tensioned to firmly hold the occupant in place Side Roll Protection The SRS system will provide protection during a fast or slow 90 degree roll to the side, in which the vehicle comes to rest on its side. The system will analyze the vehicle's angle and rate of roll to determine the optimal activation of the advanced occupant restraints. The SRS system will deploy the following components in the event of a side roll: - Air curtains mounted in the outboard bolster of outboard seat backs - Suspension seats will be retracted to the lowest travel position - Seat belts will be pre-tensioned to firmly hold the occupant in place

0622618	Seating Capacity, 5 Belted Seats	SEATING CAPACITY The seating capacity of the vehicle (including tiller cab and belted seat positions in the rescue body) will be five (5).
0636955	Seat, Driver, Pierce PSV, Air Ride, High Back, Safety, PRIMARY, SFR/Enf	DRIVER SEAT A seat will be provided in the cab for the driver. The seat design will be a cam action type, with air suspension. For increased convenience, the seat will include a manual control to adjust the horizontal position (6.00" travel). The manual horizontal control will be a towel-bar style located below the forward part of the seat cushion. To provide flexibility for multiple driver configurations, the seat will have an adjustable reclining back. The seat back will be a high back style with side bolster pads for maximum support. For optimal comfort, the seat will be provided with 17.00" deep foam cushions designed with EVC (elastomeric vibration control). The seat will include the following features incorporated into the side roll protection system: Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position. A suspension seat safety system will be included. When activated in the event of a side roll, this system will pretension the seat belt and retract the seat to its lowest travel position. The seat will be furnished with a 3-point, shoulder type seat belt.
0636942	Seat, Officer, Pierce PSV, Fixed, SCBA, Safety, PRIMARY, SFR/Enf	OFFICER SEAT A seat will be provided in the cab for the passenger. The seat will be a fixed type, with no suspension. For optimal comfort, the seat will be provided with 17.00" deep foam cushions designed with EVC (elastomeric vibration control). The seat back will be an SCBA back style with 95 degree fixed recline angle. The SCBA cavity will be adjustable from front to rear in 1.00" increments, to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location. The seat will include the following features incorporated into the side roll protection system: Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position. A seat safety system will be included. When activated, this system will pretension the seat belt. The seat will be furnished with a 3-point, shoulder type seat belt.
0620420	Radio Compartment, Below Non-Air Ride Seat, Saber FR/Enforcer	RADIO COMPARTMENT A radio compartment will be provided under the officer's seat. The inside compartment dimensions will be 14.00" wide x 7.50" high x 15.00" deep, with the back of the compartment angled up to match the cab structure. A drop-down door with one (1) flush lift and turn latch will be provided for access. The compartment will be constructed of smooth aluminum and painted to match the cab interior.
0821932	Cabinet, Rear Facing, LS, 23 W x 40.25 H x 26.75 D, Web, Ext Acc, SFR/Enf	REAR FACING LEFT SIDE CABINET A rear facing cabinet will be provided in the crew cab at the left side outboard position. The cabinet will be 23.00" wide x 40.25" high x 26.75" deep. The interior door will be web netting. The netting is to be made with 2.00" wide nylon material with 2.00" openings permanently fastened on the top with seat belt buckle fasteners on the bottom to secure it. The clear door opening will be 16.00" wide x 37.25" high. The cabinet will also provide access from outside the cab with one (1) double pan door painted to match the cab exterior with a locking D-ring latch with #751 key. A web strap will be provided as a door stop. The door will be located on the side of the cab over the wheelwell. The clear door opening will be 17.00" wide x 34.50" high. The cabinet will include one (1) infinitely adjustable shelf with a 1.25" up-turned lippainted to match the cab interior. The cabinet will include no louvers. The exterior access will be provided with a brushed stainless steel scuffplate on the lower door frame. The cabinet will be constructed of smooth aluminum and painted to match the cab interior. Cabinet Light There will be one (1) white LED strip light installed on the left side of the exterior cabinet door opening. The lighting will be controlled by an automatic door switch and a rocker switch on the cabinet exterior.
0102783	Not Required, Seat, Rr Facing C/C, Center	
0635969	Seat, Rr Fcng C/C, RS Otbrd, Pierce PSV, SCBA, Safety, PRIMARY, SFR/Enf	REAR FACING PASSENGER SIDE OUTBOARD SEAT There will be one (1) rear facing seat provided at the passenger side outboard position in the crew cab. For optimal comfort, the seat will be provided with 15.00" deep foam cushions designed with EVC (elastomeric vibration control). The seat back will be an SCBA back style with 95 degree fixed recline angle. The SCBA cavity will be adjustable from front to rear in 1.00" increments, to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location. The seat will include the following features incorporated into the side roll protection system: Side air curtain will be mounted integral to the outboard bolster of the seat back. The air curtain will be covered by a decorative panel when in the stowed position. A seat safety system will be included. When activated, this system will pretension the seat belt. The seat will be furnished with a 3-point, shoulder type seat belt.

0108189	Not Required, Seat, Forward Facing C/C, LS Outboard	
0635957	Seat, Fwd Fcng C/C, Ctr, (2) Pierce PSV, SCBA, Safety, SECONDARY, SFR/Enf	FORWARD FACING CENTER SEATS There will be two (2) forward facing seats provided at the center position in the crew cab. For optimal comfort, the seats will be provided with 15.00" deep foam cushions designed with EVC (elastomeric vibration control). The seat backs will be an SCBA style with 90 degree back. The SCBA cavity will be adjustable from front to rear in 1.00" increments to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location. The seat will include the following features incorporated into the side roll protection system: A seat safety system will be included. When activated, this system will pretension the seat belt. The seats will be furnished with a 3-point, shoulder type seat belt.
0108190	Not Required, Seat, Forward Facing C/C, RS Outboard	
0766467	Upholstery, Seats In Cab, All Vinyl, Seats Inc, CARE	SEAT UPHOLSTERY All seat upholstery will be leather grain 36 oz dark silver gray vinyl resistant to oil, grease and mildew. The cab and tiller cab (if applicable) will have five (5) seating positions.
0543991	Bracket, Air Bottle, Hands-Free II, Cab Seats	AIR BOTTLE HOLDERS All SCBA type seats in the cab will have a "Hands-Free" auto clamp style bracket in its backrest. For efficiency and convenience, the bracket will include an automatic spring clamp that allows the occupant to store the SCBA bottle by simply pushing it into the seat back. For protection of all occupants in the cab, in the event of an accident, the inertial components within the clamp will constrain the SCBA bottle in the seat and will exceed the NFPA standard of 9G. There will be a quantity of four (4) SCBA brackets.
0603866	Seat Belt, Dual Retractor, ReadyReach, Saber FR/Enforcer	SEAT BELTS All cab and tiller cab (if applicable) seating positions will have red seat belts. To provide quick, easy use for occupants wearing bunker gear, the female buckle and seat belt webbing length will meet or exceed the current edition of applicable NFPA and CAN/ULC - S515 standards. The 3-point shoulder type seat belts will include height adjustment. This adjustment will optimize the belts effectiveness and comfort for the seated firefighter. The 3-point shoulder type seat belts will be furnished with dual automatic retractors that will provide ease of operation in the normal seating position. The 3-point shoulder type belts will also include the ReadyReach® D-loop assembly to the shoulder belt system. The ReadyReach feature adds an extender arm to the D-loop location placing the D-loop in a closer, easier to reach location. Any flip up seats will include a 3-point shoulder type belts only. To ensure safe operation, the seats will be equipped with seat belt sensors in the seat cushion and belt receptacle that will activate an alarm indicating a seat is occupied but not buckled.
0817557	Helmet Storage, Provided by Fire Department, NFPA/ULC 2024	HELMET STORAGE PROVIDED BY FIRE DEPARTMENT NFPA 1900, 2024 edition, section 11.1.8.4.1 and CAN/ULC 515:2024 edition, section 5.2, requires a location for helmet storage be provided. There is no helmet storage on the apparatus as manufactured. The fire department will provide a location for storage of helmets.
0647647	Lights, Dome, FRP Dual LED 4 Lts	CAB DOME LIGHTS There will be four (4) dual LED dome lights with black bezels provided. Two (2) lights will be mounted above the inside shoulder of the driver and officer and two (2) lights will be installed and located, one (1) on each side of the crew cab. The color of the LED's will be red and white. The white LED's will be controlled by the door switches and the lens switch. The color LED's will be controlled by the lens switch. All dome lights on the apparatus will be illuminated per the current edition of applicable NFPA standards per seating position.
0896451	Enhanced Software for Cab and Crew Cab Dome Lts	ENHANCED SOFTWARE FOR CAB AND CREW CAB DOME LIGHTS The cab and crew cab dome lights will remain on for 10 seconds for improved visibility after the doors are closed. The dome lights will dim after 10 seconds or immediately if the vehicle's transmission is put into gear.
0816996	Portable Hand Light, Provided by Dealer, NFPA/ULC 2024	PORTABLE HAND LIGHTS PROVIDED BY DEALER The hand lights are not on the apparatus as manufactured. The dealer will provide and mount these hand lights.
0622803	Cab Instruments, Black Gauges, Black Bezels, Enforcer MUX	CAB INSTRUMENTATION The cab instrument panel include gauges, an LCD display, telltale indicator lamps, control switches, alarms, and a diagnostic panel. The function of the instrument panel controls and

switches will be identified by a label adjacent to each item. Actuation of the headlight switch will illuminate the labels in low light conditions. Telltale indicator lamps will not be illuminated unless necessary. The cab instruments and controls will be conveniently located within the forward cab section, forward of the driver. The gauge assembly and switch panels are designed to be removable for ease of service and low cost of ownership.

Gauges

The gauge panel will include the following ten (10) black faced gauges with black bezels to monitor vehicle performance:

Voltmeter gauge (volts):

Low volts (11.8 VDC)

Amber caution indicator on the information center with intermittent alarm

Amber caution light on gauge assembly

High volts (15.5 VDC)

Amber caution indicator on the information center with intermittent alarm

Amber caution light on gauge assembly

Very low volts (11.3 VDC)

Red warning indicator on the information center with a steady alarm

Amber caution light on gauge assembly

Very high volts (16.0 VDC)

Red warning indicator on the information center with a steady alarm

Amber caution light on gauge assembly

Engine Tachometer (RPM)

Speedometer MPH (Major Scale), KM/H (Minor Scale)

Fuel level gauge (Empty - Full in fractions):

Low fuel (1/8 full)

Amber caution indicator on the information center with intermittent alarm

Amber caution light on gauge assembly

Very low fuel (1/32 full)

Red caution indicator on the information center with steady alarm

Amber caution light on gauge assembly

Engine Oil pressure Gauge (PSI):

Low oil pressure to activate engine warning lights and alarms

Red caution indicator on the information center with steady alarm

Amber caution light on gauge assembly

Front Air Pressure Gauges (PSI):

Low air pressure to activate warning lights and alarm

Red warning indicator on the information center with a steady alarm

Amber caution light on gauge assembly

Rear Air Pressure Gauges (PSI):

Low air pressure to activate warning lights and alarm

Red warning indicator on the information center with a steady alarm

Amber caution light on gauge assembly

Transmission Oil Temperature Gauge (Fahrenheit):

High transmission oil temperature activates warning lights and alarm

Amber caution indicator on the information center with intermittent alarm

Amber caution light on gauge assembly

Engine Coolant Temperature Gauge (Fahrenheit):

High engine temperature activates an engine warning light and alarms

Amber caution indicator on the information center with intermittent alarm

Amber caution light on gauge assembly

Diesel Exhaust Fluid Level Gauge (Empty - Full in fractions):

Low fluid (1/8 full)

Amber indicator light in gauge dial

All gauges will perform prove out at initial power-up to ensure proper performance.

Indicator Lamps

To promote safety, the following telltale indicator lamps will be located on the instrument panel in clear view of the driver. The indicator lamps will be "dead-front" design that is only visible when active. The colored indicator lights will have descriptive text or symbols.

The following amber telltale lamps will be present:

Low coolant

Trac cntl (traction control) (where applicable)

Check engine

Check trans (check transmission)

Aux brake overheat (Auxiliary brake overheat)

Air rest (air restriction)

Caution (triangle symbol)

Water in fuel

DPF (engine diesel particulate filter regeneration)

Trailer ABS (where applicable)

Wait to start (where applicable)

HET (engine high exhaust temperature) (where applicable)

ABS (antilock brake system)

MIL (engine emissions system malfunction indicator lamp) (where applicable)

Side roll fault (where applicable)

Front air bag fault (where applicable)

The following red telltale lamps will be present:

Warning (stop sign symbol)

Seat belt

Parking brake

Stop engine

Rack down

The following green telltale lamps will be provided:

Left turn

Right turn

Battery on

The following blue telltale lamp will be provided:

High beam

Alarms

Audible steady tone warning alarm: A steady audible tone alarm will be provided whenever a warning message is present.

Audible pulsing tone caution alarm: A pulsing audible tone alarm (chime/chirp) will be provided whenever a caution message is present without a warning message being present.

Alarm silence: Any active audible alarm will be able to be silenced by holding the ignition switch at the top position for three (3) to five (5) seconds. For improved safety, silenced audible alarms will intermittently chirp every 30 seconds until the alarm condition no longer exists. The intermittent chirp will act as a reminder to the operator that a caution or warning condition still exists. Any new warning or caution condition will enable the steady or pulsing tones respectively.

Indicator Lamp and Alarm Prove-Out

A system will be provided which automatically tests telltale indicator lights and alarms located on the cab instrument panel. Telltale indicators and alarms will perform prove-out at initial power-up to ensure proper performance.

Control Switches

For ease of use, the following controls will be provided immediately adjacent to the cab instrument panel within easy reach of the driver. All switches will have backlit labels for low light applications.

Headlight/Parking light switch: A three (3)-position maintained rocker switch will be provided. The first switch position will deactivate all parking and headlights. The second switch position will activate the parking lights. The third switch will activate the headlights.

Panel back lighting intensity control switch: A three (3)-position momentary rocker switch will be provided. Pressing the top half of the switch, "Panel Up" increases the panel back lighting intensity and pressing the bottom half of the switch, "Panel Down" decreases the panel back lighting intensity. Pressing the half or bottom half of the switch several times will allow back lighting intensity to be gradually varied from minimum to maximum intensity level for ease of use.

Ignition switch: A three (3)-position maintained/momentary rocker switch will be provided. The first switch position will turn off and deactivate vehicle ignition. The second switch position will activate vehicle ignition and will perform prove-out on the telltale indicators and alarms for 3 to 5 seconds after the switch is turned on. A green indicator lamp is activated with vehicle ignition. The third momentary position will temporarily silence all active cab alarms. An alarm "chirp" may continue as long as alarm condition exists. Switching ignition to off position will terminate the alarm silence feature and reset function of cab alarm system.

Engine start switch: A two (2)-position momentary rocker switch will be provided. The first switch position is the default switch position. The second switch position will activate the vehicle's engine. The switch actuator is designed to prevent accidental activation.

Hazard switch will be provided on the instrument panel or on the steering column.

Heater, defroster, and air conditioning control panel.

Turn signal arm: A self-canceling turn signal with high beam headlight controls will be provided.

Windshield wiper control will have high, low and intermittent modes.

Parking brake control: An air actuated push/pull park brake control valve will be provided.

Chassis horn control: Activation of the chassis horn control will be provided through the center of the steering wheel.

High idle engagement switch: A momentary rocker switch with integral indicator lamp will be provided. The switch will activate and deactivate the high idle function. The "OK To Engage High Idle" indicator lamp must be active for the high idle function to engage. A green indicator lamp integral to the high idle engagement switch will indicate when the high idle function is engaged.

"OK To Engage High Idle" indicator lamp: A green indicator light will be provided next to the high idle activation switch to indicate that the interlocks have been met to allow high idle engagement.

Custom Switch Panels

The design of cab instrumentation will allow for emergency lighting and other switches to be placed within easy reach of the operator thus improving safety. There will be positions for up to four (4) switch panels in the lower instrument console and up to six (6) switch panels in the overhead visor console. All switches have backlit labels for low light conditions.

Diagnostic Panel

A diagnostic panel will be accessible while standing on the ground and located inside the driver's side door left of the steering column. The diagnostic panel will allow diagnostic tools such as computers to connect to various vehicle systems for improved troubleshooting providing a lower cost of ownership. Diagnostic switches will allow ABS systems to provide blink codes should a problem exist.

The diagnostic panel will include the following:

Engine diagnostic port

Transmission diagnostic port

ABS diagnostic port

Roll sensor diagnostic port

Command Zone USB diagnostic port

ABS diagnostic switch (blink codes flashed on ABS telltale indicator)

Diesel particulate filter regeneration switch (where applicable)

Diesel particulate filter regeneration inhibit switch (where applicable)

Cab LCD Display

A digital four (4)-row by 20-character dot matrix display will be integral to the gauge panel. The display will be capable of showing simple graphical images as well as text. The display will be split into three (3) sections. Each section will have a dedicated function.

The upper left section will display the outside ambient temperature.

The upper right section will display the following, along with other configuration specific information:

Odometer

Trip mileage

PTO hours

Fuel consumption

Engine hours

The bottom section will display INFO, CAUTION, and WARNING messages. Text messages

will automatically activate to describe the cause of an audible caution or warning alarm. The LCD will be capable of displaying multiple text messages should more than one caution or warning condition exist.
EXCLUDED: [Emergency Switching]. - Individual Switches

0509511	Air Restriction Indicator, Imp/Vel, AXT, Enf MUX	AIR RESTRICTION INDICATOR A high air restriction warning indicator light LCD message with amber warning indicator and audible alarm will be provided.
0543751	Light, Do Not Move Apparatus	"DO NOT MOVE APPARATUS" INDICATOR A flashing red indicator light, located in the driving compartment, will be illuminated automatically per the current NFPA requirements. The light will be labeled "Do Not Move Apparatus If Light Is On." The same circuit that activates the Do Not Move Apparatus indicator will activate a pulsing alarm when the parking brake is released.
0743386	Messages, Open Dr/DNMT, Color Dsply, 100AAT	DO NOT MOVE TRUCK MESSAGES Messages will be displayed on the Command Zone™, color display located within sight of the driver whenever the Do Not Move Truck light is active. The messages will designate the item or items not in the stowed for vehicle travel position (parking brake released). The following messages will be displayed (where applicable): Do Not Move Truck LS CAB DOOR, the left side cab door is open LS CAB COMPT DOOR, the left side cab compartment door is open LS CREWCAB DOOR, the left side crew cab door is open STEP NOT STOWED, pump house step not stowed LS TURNTABLE STEP, left side turntable step not stowed AERIAL CONTROL DR, aerial override control compartment door is open LS6 COMPT DR, the left side LS6 compartment door is open LS5 COMPT DR, the left side LS5 compartment door is open LS4 COMPT DR, the left side LS4 compartment door is open LS3 COMPT DR, the left side LS3 compartment door is open LS2 COMPT DR, the left side LS2 compartment door is open LS1 COMPT DR, the left side LS1 compartment door is open LS AIR BTL COMPT DR, the left side air bottle compartment door is open LS BASKET STEP, the left side basket steps not stowed STABILIZER CTRL DR, the rear stabilizer control compartment door is open STABILIZER DEPLOYED, the stabilizers are not stowed. LS CORD REEL DR, the left side cord reel compartment door is open RS CORD REEL DR, the right side cord reel compartment door is open B1 REAR COMPT DR, the rear B1 compartment door is open TURNTBL CTRL CNSL, the turntable control console not stowed. RS BASKET STEP, the right side basket steps not stowed RS AIR BTL COMPT DR, the right side air bottle compartment door is open. RS1 COMPT DR, the right side RS1 compartment door is open RS2 COMPT DR, the right side RS2 compartment door is open RS3 COMPT DR, the right side RS3 compartment door is open RS4 COMPT DR, the right side RS4 compartment door is open RS5 COMPT DR, the right side RS5 compartment door is open RS6 COMPT DR, the right side RS6 compartment door is open RS7 COMPT DR, the right side RS7 compartment door is open RS CREWCAB DR, the right side crew cab door is open RS CAB COMPT DR, the right side cab compartment door is open RS CAB DR, the right side cab door is open LT TOWER NOT STOWED, the light tower is not stowed Any other device that is opened, extended, or deployed that creates a hazard or is likely to cause major damage to the apparatus if the apparatus is moved will be displayed as a caution message after the parking brake is released.
0622798	Switching, Cab Instrument Lower Console & Overhead, Rocker MUX, Enforcer	SWITCH PANELS The built-in switch panels will be located in the lower console or overhead console of the cab. The switches will be rocker-type and include an integral indicator light. For quick, visual indication the switch will be illuminated whenever the switch is active. A 2-ply, scratch resistant laser engraved Gravoply label indicating the use of each switch will be placed below the switches. The label will allow light to pass through the letters for improved visibility in low light conditions. Switches and light source are integral to the switch panel assembly.
0802945	Wiper Control, 2-Speed with Intermittent, Stalk Control, Enf MUX	WIPER CONTROL For simple operation and easy reach, the windshield wiper control will be an integral part of the directional light lever located on the steering column. The wiper control will include high and low wiper speed settings, an intermittent wiper control and windshield washer switch. The control will have a "return to park" provision, which allows the wipers to return to the stored position when not in use.

0731813	Hour Meter, Aerial, Included in Information Centers, ASL, AAT, ASP	HOURLMETER - AERIAL DEVICE The following aerial hour meter messages will be included in the information centers: Aerial Hours, that keeps track of the time the aerial device is in motion. Aerial PTO Hours, that keeps track of the time the aerial master switch is on and the aerial PTO is engaged.
0002615	Switch, Aerial 12V Master	AERIAL MASTER There will be a master switch for the aerial operating electrical system provided.
0002617	PTO switch, w/light - aerial	AERIAL PTO SWITCH A PTO switch for the aerial with indicator light will be provided.
0834413	USB, Cab, 4, 12V DC, Dual USB Termination, Batt Dir. NFPA1900/ULC	CAB USB There will be four (4) USB terminations with a combination USB type A & C, wired to battery direct power, and provided per the following: One (1) within reach of the driver One (1) within reach of the passenger Two (2) on the rear of the engine tunnel, one (1) each side. Battery direct loads cannot be load managed.
0820894	Wiring, Spare, 15 A 12V DC, Batt Dir, 1st NFPA1900/ULC	SPARE CIRCUIT There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus. The wires will have the following features: The positive wire will be connected directly to the battery power. The negative wire will be connected to ground. Wires will be capable of carrying 15 amps. Power and ground will terminate behind officer seat. Termination will be with a 10-place bus bar with screws and removable cover. Wires will be protected to meet the NFPA Automotive Fire Apparatus standard. Battery direct loads cannot be Load Managed.
0814201	Vehicle Information Center, 7" Color Display, Touchscreen, MUX, CL714	INFORMATION CENTER An information center employing a 7.00" diagonal touch screen color LCD display will be encased in an ABS plastic housing. The information center will have the following specifications: Operate in temperatures from -40 to 158 degrees Fahrenheit LCD optically bonded to hardened AR glass lens Five weather resistant user interface switches Grey with black accents Sunlight Readable Linux operating system Minimum of 1000nits rated display Display can be changed to an available foreign language A LCD display integral to the cab gauge panel will be included as outlined in the cab instrumentation area. Programmed to read US Customary General Screen Design Where possible, background colors will be used to provide "At a Glance" vehicle information. If information provided on a screen is within acceptable limits, a green background will be used. If a caution or warning situation arises the following will occur: An amber background/text color will indicate a caution condition A red background/text color will indicate a warning condition The information center will utilize an "Alert Center" to display text messages for audible alarm tones. The text messages will be written to identify the item(s) causing the audible alarm to sound. If more than one (1) text message occurs, the messages will cycle every second until the problem(s) have been resolved. The background color for the "Alert Center" will change to indicate the severity of the "warning" message. If a warning and a caution condition occur simultaneously, the red background color will be shown for all alert center messages. A label for each button will exist. The label will indicate the function for each active button for each screen. Buttons that are not utilized on specific screens will have a button label with no text or symbol. Home/Transit Screen This screen will display the following: Vehicle Mitigation (if equipped) Water Level (if the water level system includes compatible communications to the information center) Foam Level (if the foam level system includes compatible communications to the information center) Seat Belt Monitoring Screen Tire Pressure Monitoring (if equipped) Digital Speedometer Active Alarms On Scene Screen This screen will display the following and will be auto activated with pump engaged (if equipped): Battery Voltage Fuel Oil Pressure Coolant Temperature RPM Water Level (if equipped)

Foam Level (if equipped)
Foam Concentration (if equipped)
Water Flow Rate (if equipped)
Water Used (if equipped)
Active Alarms

Virtual Buttons

There will be four (4) virtual switch panel screens that match the overhead and lower lighting and HVAC switch panels.

Page Screen

The page screen will display the following and allow the user to progress into other screens for further functionality:

Diagnostics

Faults

Listed by order of occurrence

Allows to sort by system

Interlock

Throttle Interlocks

Pump Interlocks (if equipped)

Aerial Interlocks (if equipped)

PTO Interlocks (if equipped)

Load Manager

A list of items to be load managed will be provided. The list will provide a description of the load. The lower the priority numbers the earlier the device will be shed should a low voltage condition occur.

The screen will indicate if a load has been shed (disabled) or not shed.

"At a glance" color features are utilized on this screen.

Systems

Command Zone

Module type and ID number

Module Version

Input or output number

Circuit number connected to that input or output

Status of the input or output

Power and Constant Current module diagnostic information

Foam (if equipped)

Pressure Controller (if equipped)

Generator Frequency (if equipped)

Live Data

General Truck Data

Maintenance

Engine oil and filter

Transmission oil and filter

Pump oil (if equipped)

Foam (if equipped)

Aerial (if equipped)

Setup

Clock Setup

Date & Time

12 or 24 hour format

Set time and date

Backlight

Daytime

Night time

Sensitivity

Unit Selection

Home Screen

Virtual Button Setup

On Scene Screen Setup

Configure Video Mode

Set Video Contrast

Set Video Color

Set Video Tint

Do Not Move

The screen will indicate the approximate location and type of item that is open or is not stowed for travel. The actual status of the following devices will be indicated

Driver Side Cab Door

Passenger's Side Cab Door

Driver Side Crew Cab Door

Passenger's Side Crew Cab Door

Driver Side Body Doors

Passenger's Side Body Doors

Rear Body Door(s)

Ladder Rack (if applicable)

Deck Gun (if applicable)

Light Tower (if applicable)

Hatch Door (if applicable)

Stabilizers (if applicable)

Steps (if applicable)

Notifications

View Active Alarms

Shows a list of all active alarms including date and time of the occurrence is shown with each alarm

Silence Alarms - All alarms are silenced

Timer Screen

HVAC (if equipped)

Tire Information (if equipped)

Ascendant Set Up Confirmation (if equipped)

Button functions and button labels may change with each screen.

0734854	Collision Mitigation, Not Requested	
0606247	Vehicle Data Recorder w/CZ Display Seat Belt Monitor	VEHICLE DATA RECORDER There will be a vehicle data recorder (VDR) capable of reading and storing vehicle information provided. The information stored on the VDR can be downloaded through a USB port mounted in a convenient location determined by cab model. A USB cable can be used to connect the VDR to a laptop to retrieve required information. The program to download the information from the VDR will be available to download on-line. The vehicle data recorder will be capable of recording the following data via hardwired and/or CAN inputs: - Vehicle Speed - MPH - Acceleration - MPH/sec - Deceleration - MPH/sec - Engine Speed - RPM - Engine Throttle Position - % of Full Throttle - ABS Event - On/Off - Seat Occupied Status - Yes/No by Position - Seat Belt Buckled Status - Yes/No by Position - Master Optical Warning Device Switch - On/Off Internal clock syncs the time and date when a laptop is connected. Seat Belt Monitoring System A seat belt monitoring system (SBMS) will be provided on the Command Zone™ color display. The SBMS will be capable of monitoring up to 10 seating positions indicating the status of each seat position per the following: - Seat Occupied & Buckled = Green LED indicator illuminated - Seat Occupied & Unbuckled = Red LED indicator with audible alarm - No Occupant & Buckled = Red LED indicator with audible alarm - No Occupant & Unbuckled = No indicator and no alarm - FAULT = Blue LED indicator illuminated The seat belt monitoring screen will become active on the Command Zone color display when: - The home screen is active: - and there is any occupant seated but not buckled or any belt buckled with an occupant. and there are no other Do Not Move Apparatus conditions present. As soon as all Do Not Move Apparatus conditions are cleared, the SBMS will be activated. The SBMS will include an audible alarm that will warn that an unbuckled occupant condition exists and the parking brake is released, or the transmission is not in park.
0696439	Antenna Mount, Custom Chassis, Cable Routed to Instrument Panel Area	RADIO ANTENNA MOUNT There will be two (2) standard 1.125", 18 thread antenna-mounting base(s) installed one (1) on the left side and one (1) on the right side on the cab roof with high efficiency, low loss, coaxial cable(s) routed to the instrument panel area. A weatherproof cap will be installed on the mount.
0817058	Camera, Pierce, LS Mux, R Camera, SD, CL714	VEHICLE CAMERA SYSTEM There will be a color vehicle camera system provided with the following: - One (1) Standard Definition (SD) camera located at the rear of the apparatus, pointing rearward, displayed automatically with the vehicle in reverse. The camera images will be displayed on the left side vehicle information center display. Audio from the microphone on the rear camera will be not provided. The following components will be included: - One (1) SV-CW134639CAI Camera All necessary cables
0814831	Not Required, Camera Switcher	Camera Switcher A camera switcher is not required.
0890416	Pierce Command Zone, Advanced Electronics & Control System, Enforcer, WiFi CZT	ELECTRICAL POWER CONTROL SYSTEM The primary power distribution will be located forward of the officer's seating position and be easily accessible while standing on the ground for simplified maintenance and troubleshooting. Additional electrical distribution centers will be provided throughout the vehicle to house the vehicle's electrical power, circuit protection, and control components. The electrical distribution centers will be located strategically throughout the vehicle to minimize wire length. For ease of maintenance, all electrical distribution centers will be easily accessible. All distribution centers containing fuses, circuit breakers and/or relays will be easily accessible. Distribution centers located throughout the vehicle will contain battery powered studs for supplying customer installed equipment thus providing a lower cost of ownership. Circuit protection devices, which conform to SAE standards, will be utilized to protect electrical circuits. All circuit protection devices will be rated per NFPA requirements to prevent wire and component damage when subjected to extreme current overload. General protection circuit breakers will be Type-I automatic reset (continuously resetting). When required, automotive type fuses will be utilized to protect electronic equipment. Control relays and solenoid will have a direct current rating of 125 percent of the maximum current for which the circuit is protected per NFPA. Solid-State Control System A solid-state electronics based control system will be utilized to achieve advanced operation and control of the vehicle components. A fully computerized vehicle network will consist of electronic modules, electronic control modules to include a see through housing, a power indicator, a status indicator and circuit indicators located near their point of use to reduce harness lengths and

improve reliability. The control system will comply with SAE J1939-11 recommended practices. The control system will operate as a master-slave system whereas the main control module instructs all other system components. The system will contain patented Mission Critical software that maintains critical vehicle operations in the unlikely event of a main controller error. The system will utilize a Real Time Operating System (RTOS) fully compliant with OSEK/VDX™ specifications providing a lower cost of ownership.

For increased reliability and simplified use the control system modules will include the following attributes:

Green LED indicator light for module power

Red LED indicator light for network communication stability status

Control system self test at activation and continually throughout vehicle operation

No moving parts due to transistor logic

Software logic control for NFPA mandated safety interlocks and indicators

Integrated electrical system load management without additional components

Integrated electrical load sequencing system without additional components

Customized control software to the vehicle's configuration

Factory and field programmable to accommodate changes to the vehicle's operating parameters

To assure long life and operation in a broad range of environmental conditions, the solid-state control system modules will meet the following specifications:

Module circuit board will meet SAE J771 specifications

Operating temperature from -40 degrees Celsius to +70 degrees Celsius (-40 degrees Fahrenheit to +158 degrees Fahrenheit)

Storage temperature from -40 degrees Celsius to +70 degrees Celsius (-40 degrees Fahrenheit to +158 degrees Fahrenheit)

Vibration to 50g

IP67 rated enclosure (Totally protected against dust and also protected against the effect of temporary immersion between 15 centimeters and one (1) meter)

Operating voltage from eight (8) volts to 32 volts DC

The main controller will activate status indicators and audible alarms designed to provide warning of problems before they become critical.

Circuit Protection and Control Diagram

Copies of all job-specific, computer network input and output (I/O) connections will be provided with each chassis. The sheets will indicate the function of each module connection point, circuit protection information (where applicable), wire numbers, wire colors and load management information.

On-Board Electrical System Diagnostics

The on-board information center will include the following diagnostic information:

Text description of active warning or caution alarms

Simplified warning indicators

Amber caution indication with intermittent alarm

Red warning indication with steady tone alarm

Advanced diagnostic feature will be provided in this control system. From the Command Zone display or connected wireless device, these features allow the user to monitor the real-time status of every input or output on the vehicle. It also allows users logged in as an administrator to force on inputs or outputs to assist the troubleshooting process.

TCU Module with WiFi

An in cab module will provide WiFi wireless interface and data logging capability. The WiFi interface will comply with IEEE 802.11 b/g/n capabilities while communicating at 2.4 Gigahertz. The module will communicate through a white WiFi antenna allowing a line of site communication range of up to 300 feet with a roof mounted antenna.

The module will transmit a password protected web page to a WiFi enabled device (i.e. most smart phones, tablets or laptops) allowing two levels of user interaction. The firefighter level will allow vehicle monitoring of the vehicle and firefighting systems on the apparatus. The technician level will allow diagnostic access to inputs and outputs installed on the Command Zone™, control and information system.

The TCU capability will record faults from the engine, transmission, ABS and Command Zone™, control and information systems as they occur. No other data will be recorded at the time the fault occurs. The data TCU will provide up to 2 Gigabytes of data storage.

The TCU will provide a means to download the TCU information and update software in the device.

Indicator Light and Alarm Prove-Out System

A system will be provided which automatically tests basic indicator lights and alarms located on the cab instrument panel.

Voltage Monitor System

A voltage monitoring system will be provided to indicate the status of the battery system connected to the vehicle's electrical load. The system will provide visual and audible warning when the system voltage is below or above optimum levels.

The alarm will activate if the system falls below 11.8 volts DC for more than two (2) minutes.

Dedicated Radio Equipment Connection Points

There will be three (3) studs provided in the primary power distribution center located in front of the officer for two-way radio equipment. The studs will consist of the following:

12-volt 40-amp battery switched power

12-volt 60-amp ignition switched power

12-volt 60-amp direct battery power

There will also be a 12-volt 100-amp ground stud located in or adjacent to the power distribution center.

EMI/RFI Protection

To prevent erroneous signals from crosstalk contamination and interference, the electrical system will meet, at a minimum, SAE J551/2, thus reducing undesired electromagnetic and radio frequency emissions. An advanced electrical system will be used to ensure radiated and conducted electromagnetic interference (EMI) or radio frequency interference (RFI) emissions are suppressed at their source.

The apparatus will have the ability to operate in the electromagnetic environment typically found in fire ground operations to ensure clean operations. The electrical system will meet, without exceptions, electromagnetic susceptibility conforming to SAE J1113/25 Region 1, Class C EMR for 10KHz-1GHz to 100 Volts/Meter. The vehicle OEM, upon request, will provide EMC testing reports from testing conducted on an entire apparatus and will certify that the vehicle meets SAE

0896456	Prognostics, Electrical System	ELECTRICAL SYSTEM PROGNOSTICS There will be a software based vehicle tool provided to predict remaining life of the vehicles critical fluid and events. The system will send automatic indications to the Command Zone™ information center and/or wireless enabled devices to proactively alert of upcoming service intervals. Prognostics will include the following: - Engine oil and filter - Transmission oil and filter
0816093	ClearSky Telematics, Remote Fleet & On-scene Management, AT&T Commercial	TELEMATICS SYSTEM Your vehicle will include a cellular-based vehicle telematics system including a telematic control unit with external cellular Wi-Fi and GPS antenna. Pierce will provide access to a web-based user interface portal that will allow users to access vehicle data collected as part of the system, allow users to configure monitoring tools, provide a global view of the location of each vehicle that has the system, provide a summary of fleet data, etc. The web-based user interface portal or certain features thereof may be provided on a subscription basis. The telematic control unit will be fully integrated into the electrical system of the vehicle, will monitor the vehicle through the CAN data bus, and will transmit data through a secure AT&T 4G LTE cellular connection, and be provided with a 3 year subscription. The web-based user interface portal will provide, among other features: - User defined interval notifications - User defined fault alerts - Remote access to Command Zone™ diagnostics - Vehicle analytics and activity monitoring - Vehicle system status The system is activated while building your vehicle and thereafter remains active for a 60-day grace period starting when your vehicle ships from the factory. This means that the system is active at the time of factory acceptance and during the 60-day grace period. By selecting this option, it is agreed that use of the system and the web-based user interface portal will be subject to the terms set forth in the Data Systems Agreement referenced at https://www.piercemfg.com/privacy-statement. Customers will be provided with an initial login at the time of factory acceptance to verify performance of the system and the web-based user interface portal. The term of the subscription, if any, will begin when the vehicle ships from the factory. If customers do not log into the web-based user interface portal and confirm acceptance of the terms before the 60-day grace period ends, the system will be deactivated, and no new data will be collected or retained Pierce. Reactivation can be coordinated through the customer's authorized Pierce Dealer.
0733539	Electrical System, Enf MUX ESP	ELECTRICAL All 12-volt electrical equipment installed by the apparatus manufacturer will conform to modern automotive practices. All wiring will be high temperature crosslink type. Wiring will be run, in loom or conduit, where exposed and have grommets where wire passes through sheet metal. Automatic reset circuit breakers will be provided which conform to SAE Standards. Wiring will be color, function and number coded. Function and number codes will be continuously imprinted on all wiring harness conductors at 2.00" intervals. Exterior exposed wire connectors will be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids. Electrical wiring and equipment will be installed utilizing the following guidelines: All holes made in the roof will be caulked with silicon. Large fender washers, liberally caulked, will be used when fastening equipment to the underside of the cab roof. Any electrical component that is installed in an exposed area will be mounted in a manner that will not allow moisture to accumulate in it. Exposed area will be defined as any location outside of the cab or body. Electrical components designed to be removed for maintenance will not be fastened with nuts and bolts. Metal screws will be used in mounting these devices. Also a coil of wire will be provided behind the appliance to allow them to be pulled away from mounting area for inspection and service work. Corrosion preventative compound will be applied to all terminal plugs located outside of the cab or body. All non-waterproof connections will require this compound in the plug to prevent corrosion and for easy separation (of the plug). All lights that have their sockets in a weather exposed area will have corrosion preventative compound added to the socket terminal area. All electrical terminals in exposed areas will have silicon applied completely over the metal portion of the terminal. All lights and reflectors, required to comply with Federal Motor Vehicle Safety Standard #108, will be furnished. Rear identification lights will be recessed mounted for protection. Lights and wiring mounted in the rear bulkheads will be protected from damage by installing a false bulkhead inside the rear compartments. An operational test will be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order. The results of the tests will be recorded and provided to the purchaser at time of delivery.

0079211	Batteries, (6) Stryten/Exide Grp 31, 950 CCA each, Threaded Stud	BATTERY SYSTEM There will be six (6) 12 volt Stryten/Exide®, Model 31S950X3W, batteries that include the following features will be provided: 950 CCA, cold cranking amps 190 amp reserve capacity High cycle Group 31 Rating of 5700 CCA at 0 degrees Fahrenheit 1140 minutes of reserve capacity Threaded stainless steel studs Each battery case will be a black polypropylene material with a vertically ribbed container for increased vibration resistance. The cover will be manifold vented with a central venting location to allow a 45 degree tilt capacity. The inside of each battery will consist of a "maintenance free" grid construction with poly wrapped separators and a flooded epoxy bottom anchoring for maximum vibration resistance.
0008621	Battery System, Single Start, All Custom Chassis	BATTERY SYSTEM There will be a single starting system with an ignition switch and starter button provided and located on the cab instrument panel. MASTER BATTERY SWITCH There will be a master battery switch provided within the cab within easy reach of the driver to activate the battery system. An indicator light will be provided on the instrument panel to notify the driver of the status of the battery system.
0002698	Battery Compartment, Saber/Enforcer	BATTERY COMPARTMENTS Batteries will be placed on non-corrosive mats and be stored in well ventilated compartments located under the cab and bolted directly to the chassis frame. The battery boxes will have reinforced sides. The battery compartments will be constructed of 0.188" steel plate and be designed to accommodate a maximum of three (3) group 31 batteries in each compartment. The battery hold-downs will be of a non-corrosive material. All bolts and nuts will be stainless steel. Heavy-duty, 2/0 gauge, color coded battery cables will be provided. Battery terminal connections will be coated with anti-corrosion compound. Battery solenoid terminal connections will be encapsulated with semi-permanent rubberized compound. JUMPER STUDS One (1) set of battery jumper studs with plastic color-coded covers will be included on the battery compartments.
0812586	Charger, Sngl Sys, Kussmaul, Chief 091-266-12-60, 60 Amp	BATTERY CHARGER There will be a Kussmaul™, Chief Series Smart Charger 6012, product code 091-266-12-60, 60 amp battery charger with build-in touch screen display provided. The battery charger will be wired to the AC shoreline inlet through a junction box located near the battery charger.
0814869	Location, Cab, Charger, Behind Driver Seat	The battery charger will be located in the cab behind the driver seat.
0813791	Panel, Charger Display, Kussmaul, 091-94-12, Batt Dir	REMOTE CONTROL PANEL - BATTERY CHARGER There will be a Kussmaul™, Model 091-94-12 universal display panel included. It will be wired directly to the chassis batteries.
0814939	Location, Cab, Ind/Remote, Driver's Seat Riser	The battery charger indicator will be located on the driver's seat riser.
0811952	Not Required, Indicator/Remote Status	
0824337	Not Required, Location Ind/Remote	
0016857	Shoreline, 20A 120V, Kussmaul Auto Eject, 091-55-20-120, Super	AUTO EJECT FOR SHORELINE There will be one (1) Kussmaul™, Model 091-55-20-120, 20 amp 120 volt AC shoreline inlet(s) provided to operate the dedicated 120 volt AC circuits on the apparatus. The shoreline inlet(s) will include red weatherproof flip up cover(s). There will be a release solenoid wired to the vehicle's starter to eject the AC connector when the engine is starting. The shoreline(s) will be connected to the battery charger. There will be a mating connector body supplied with the loose equipment. There will be a label installed near the inlet(s) that state the following: Line Voltage Current Rating (amps) Phase Frequency

0026800	Shoreline Location	The shoreline receptacle will be located on the driver side of cab, to the front of cab door.
0647728	Alternator, 430 amp, Delco Remy 55SI	ALTERNATOR A Delco Remy®, Model 55SI, alternator will be provided. It will have a rated output current of 430 amps, as measured by SAE method J56. The alternator will feature an integral regulator and rectifier system that has been tested and qualified to an ambient temperature of 257 degrees Fahrenheit (125 degrees Celsius). The alternator will be connected to the power and ground distribution system with heavy-duty cables sized to carry the full rated alternator output.
0092582	Load Manager/Sequencer, MUX	ELECTRONIC LOAD MANAGER An electronic load management (ELM) system will be provided that monitors the vehicles 12-volt electrical system, automatically reducing the electrical load in the event of a low voltage condition, and automatically restoring the shed electrical loads when a low voltage condition expires. This ensures the integrity of the electrical system. For improved reliability and ease of use, the load manager system will be an integral part of the vehicle's solid state control system requiring no additional components to perform load management tasks. Load management systems which require additional components will not be allowed. The system will include the following features: System voltage monitoring. A shed load will remain inactive for a minimum of five minutes to prevent the load from cycling on and off. Sixteen available electronic load shedding levels. Priority levels can be set for individual outputs. High Idle to activate before any electric loads are shed and deactivate with the service brake. If enabled: "Load Man Hi-Idle On" will display on the information center. Hi-Idle will not activate until 30 seconds after engine start up. Individual switch "on" indicator to flash when the particular load has been shed. The information center indicates system voltage. The information center, where applicable, includes a "Load Manager" screen indicating the following: Load managed items list, with priority levels and item condition. Individual load managed item condition: ON = not shed SHED = shed SEQUENCER A sequencer will be provided that automatically activates and deactivates vehicle loads in a preset sequence thereby protecting the alternator from power surges. This sequencer operation will allow a gradual increase or decrease in alternator output, rather than loading or dumping the entire 12 volt load to prolong the life of the alternator. For improved reliability and ease of use, the load sequencing system will be an integral part of the vehicle's solid state control system requiring no additional components to perform load sequencing tasks. Load sequencing systems which require additional components will not be allowed. Emergency light sequencing will operate in conjunction with the emergency master light switch. When the emergency master switch is activated, the emergency lights will be activated one by one at half-second intervals. Sequenced emergency light switch indicators will flash while waiting for activation. When the emergency master switch is deactivated, the sequencer will deactivate the warning light loads in the reverse order. Sequencing of the following items will also occur, in conjunction with the ignition switch, at half-second intervals: Cab Heater and Air Conditioning Crew Cab Heater (if applicable) Crew Cab Air Conditioning (if applicable) Exhaust Fans (if applicable) Third Evaporator (if applicable)
0783157	Headlights, Rect, JW Spkr Evo 2, Heat, AXT/Enf/Imp/Sab/Vel	HEADLIGHTS There will be four (4) JW Speaker®, Model 8800, 4" x 6" rectangular LED lights with heated lens mounted in the front quad style, chrome housing on each side of the cab grille: the outside light on each side will contain a part number 055***1 low beam module the inside light on each side will contain a part number 055***1 high beam module the headlights to include chrome bezels The low beam lights will be activated when the headlight switch is on. The high beam and low beam lights will be activated when the headlight switch and the high beam switch is activated.
0802935	Light, Directional, Wln M62T* LED, Cm'n Bzl, Above Headlights, Sab/Enf	FRONT DIRECTIONALS The front directional's will be Whelen®, Model M62T, 4.31" high x 6.75" wide x 1.37" deep directional lights with amber LEDs. The lens color(s) to be clear. The directional's will be housed in the same common bezel as the front warning light and will be located above the headlights. The housing to be polished and the trim shall be chrome. The flash pattern of the directional lights will be Steady On (Arrow).

0620054	Light, Directional/Marker, Intermediate, Weldon 9186-8580-29 LED 2lts	INTERMEDIATE LIGHT There will be two (2) Weldon, Model 9186-8580-29, amber LED turn signal marker lights furnished, one (1) each side, in the rear fender panel. The light will double as a turn signal and marker light.
0736083	Lights, Clearance/Marker, Side, P25 LED 2 Lts, Others With Visor Lt	CAB CLEARANCE/MARKER/ID LIGHTS There will be two (2) amber LED lights provided to indicate the presence and overall length of the vehicle in the following locations: Two (2) lights with amber LEDs as front side clearance lights will be installed, one (1) on each side above the cab doors. All other forward facing clearance lights will be included with the visor scene light.
0647899	Lights, Directional/Marker, Cab Front Side, Weldon 9186-8580-29 LED, Sab/Enf	FRONT CAB SIDE DIRECTIONAL/MARKER LIGHTS There will be two (2) Weldon, Model 9186-8580-29, amber LED lights installed front of the cab door, one (1) on each side of the cab. The lights will activate as marker lights with the headlight switch and directional lights with the corresponding directional circuit.
0670831	Lights, Clearance/Marker/ID, Rear, P25 LED 7Lts, 100AAT	REAR CLEARANCE/MARKER/ID LIGHTING There will be three (3) LED identification lights located at the rear of the apparatus installed per the following: As close as practical to the vertical centerline and one (1) on each outside edge Centers spaced not less than 6.00" or more than 12.00" apart Red in color All at the same height All visible from the rear There will be two (2) LED lights installed at the rear of the apparatus used as clearance lights located at the rear of the apparatus per the following: To indicate the overall width of the vehicle One (1) each side of the vertical centerline As near the top as practical Red in color To be visible from the rear All at the same height There will be two (2) LED lights installed on the side of the apparatus used as marker lights as close to the rear as practical per the following: To indicate the overall length of the vehicle One (1) each side of the vertical centerline As near the top as practical Red in color To be visible from the side All at the same height There will be two (2) red reflectors located on the rear of the truck facing to the rear. One (1) each side, as far to the outside as practical, at a minimum of 15.00", but no more than 60.00", above the ground. There will be two (2) red reflectors located on the side of the truck facing to the side. One (1) each side, as far to the rear as practical, at a minimum of 15.00", but no more than 60.00", above the ground. Per FMVSS 108 and CMVSS 108 requirements.
0602938	Light, Marker End Outline, Rubber Arm, LED Marker Lamp, Rear Body	MARKER LIGHTS There will be one (1) pair of amber and red LED marker lights with rubber arm, located at the rear most lower corner of the body. The amber lens will face the front and the red lens will face the rear of the truck. These lights will be activated with the running lights of the vehicle.
0804514	Lights, Tail, WIn M62BTT* Red Stop/Tail & M62T* Amber Dir Arw For Hsg	REAR FMVSS LIGHTING The rear stop/tail and directional lighting included in the rear tail light housing will include the following: Two (2) Whelen®, Model M62BTT, 4.30" high x 6.70" wide x 1.40" deep brake/tail lights with red LEDs Two (2) Whelen, Model M62T, 4.30" high x 6.70" wide x 1.40" deep directional lights with amber LEDs. The directional lights will be set to Steady On (Arrow) flash pattern. The lens color(s) to be the same as the LEDs.
0806466	Lights, Backup, WIn M62BU, LED, For Tail Lt Housing	There will be two (2) Whelen Model M62BU, LED backup lights provided in the tail light housing.
0889577	Bracket, License Plate & Light, P25 LED, Stainless Brkt	LICENSE PLATE BRACKET One (1) license plate bracket constructed of stainless steel will be provided at the rear of the apparatus. One (1) white LED light with chrome housing will be provided to illuminate the license plate. A stainless steel light shield will be provided over the light that will direct illumination downward, preventing white light to the rear.

0556842	Bezels, Wln, (2) M6 Chrome Pierce, For mtg (4) Wln M6 lights	LIGHTING BEZEL There will be two (2) Whelen, Model M6FCV4P, four (4) place chromed ABS housings with Pierce logos provided for the rear M6 series stop/tail, directional, back up, scene lights or warning lights.
0589905	Alarm, Back-up Warning, PRECO 1040	BACK-UP ALARM A PRECO, Model 1040, solid-state electronic audible back-up alarm that actuates when the truck is shifted into reverse will be provided. The device will sound at 60 pulses per minute and automatically adjust its volume to maintain a minimum ten (10) dBA above surrounding environmental noise levels.
0817254	Lights, Perimeter Cab, Amdor AY-LB- 12HW0** LED 4Dr	CAB PERIMETER SCENE LIGHTS There will be four (4) Amdor, Model AY-LB-12HW0**, white LED strip lights provided, one (1) for each cab door that will meet NFPA ground lighting requirements. These lights will be activated automatically when the battery switch is on and the exit doors are opened or by the same means as the body perimeter scene lights.
0769564	Lights, Perimeter Pump House, Amdor AY-LB-12HW020 LED 1lt	PUMP HOUSE PERIMETER LIGHTS There will be one (1) Amdor, Model AY-LB-12HW020, 350 lumens, 20.00" LED weatherproof strip light with bracket provided under the passenger's side pump panel running board. If the combination of options in the vehicle does not permit clearance for a 20.00" light, a 12.00" version of the Amdor light will be installed. The light will be activated when the battery switch is on, and controlled by the same means as the body perimeter lights.
0763190	Lights, Perimeter Body, Amdor AY- LB-12HW012 LED 3lts	BODY PERIMETER SCENE LIGHTS There will be three (3) Amdor®, Model AY-LB-12HW012, 190 lumen, 12.00" long, white 12 volt DC LED strip lights provided. The lights will be mounted in the following locations. One (1) light will be provided under the left side turntable access steps One (1) light will be provided under the left side basket access steps One (1) light will be provided under the right side basket access steps The perimeter scene lights will be activated when the parking brake is applied.
0896454	Enhanced Software for Perimeter Lts	ENHANCED SOFTWARE FOR PERIMETER LIGHTS All perimeter lights will be deactivated when the parking brake is released unless alternate control is selected. The cab and crew cab perimeter lights will remain on for ten (10) seconds for improved visibility after the doors closed.
0735865	Step Illumination, Pump Panel Light Shield, 100AAT, w/Pump	STEP ILLUMINATION The running board(s) under the pump panel(s) will be illuminated by the lights included in the overhead pump panel light shield. Additional steps on the apparatus will be illuminated per the current edition of applicable NFPA standards.
0730736	Bracket, Alum. Painted, Offset, 12V Brow Mount Lts, Top of Cab	LIGHT BRACKET, SIDES OF CAB ROOF There will be two (2) painted smooth aluminum bracket(s) installed on the side(s) of the cab roof straight off the roof of the cab to bring the scene light(s) as close to the outside edge of the cab as practical. The bracket(s) will be located, above crew cab doors, one each side.
0762177	Light, Visor, HiViz, FT-B-72-ML-*, Cntl Feat, Flush w/Cab	12 VOLT LIGHTING There will be a HiViz, Model FT-B-72-ML-*, 2.56" high x 75.00" long x 2.45" deep 21,407 effective lumens, 12 volt DC LED light provided on the front cab roof as far forward as practical. There will be a visor bracket to hold the top of the light flush with the top of the cab. The light will include white scene LEDs, three (3) amber LEDs as identification lights and two (2) amber LEDs as clearance lights. The white LEDs will be configured in spot and flood optics. The painted parts of the light housing and brackets to be black. The scene LEDs will be activated by a switch at the driver's side switch panel and by a switch at the left side pump panel. The identification and clearance LEDs will be activated by the headlight switch. The white LEDs may be load managed when the parking brake is applied.
0897900	Lights, HiViz FT-MB-2.45-**-* 49.37", 2nd	12 VOLT LIGHTING There will be one (1) HiViz®, Model FT-MB-2.45-**-*, 47,520 raw lumens 3.46" high x 49.37" long x 3.31" deep, 12 volt DC light(s) with white LEDs, a combination of flood and spot optics and adjustable mounting brackets installed on the cab above passenger side crew cab door . The painted parts of the light housing and brackets to be black. The light(s) will be activated by a switch at the driver's side switch panel and by a switch at the left side pump panel. The light(s) may be load managed when the parking brake is applied.

0897903	Lights, HiViz FT-MB-2.45-**-* 49.37", 1st	12 VOLT LIGHTING There will be one (1) HiViz®, Model FT-MB-2.45-**-*, 47,520 raw lumens 3.46" high x 49.37" long x 3.31" deep, 12 volt DC light(s) with white LEDs, a combination of flood and spot optics and adjustable mounting brackets installed on the cab above driver side crew cab door. The painted parts of the light housing and brackets to be black. The light(s) will be activated by a switch at the driver's side switch panel and by a switch at the left side pump panel. The light(s) may be load managed when the parking brake is applied.
0764632	Lights, HiViz FT-B-72-* LED, 2nd	12 VOLT LIGHTING There will one (1) HiViz Model FT-B-72-*, 21,067 effective lumens 2.56" high x 72.69" long x 2.45" deep 12 volt DC light(s) with white LEDs and with a combination of spot, and flood optics installed on the apparatus located, passenger side of body on catwalk above RS3.. The painted parts of the light housing and brackets to be black. The light(s) will be controlled by the same control that has been selected for the passenger's side scene light(s). The light(s) may be load managed when the parking brake is applied.
0764634	Lights, HiViz FT-B-72-* LED, 1st	12 VOLT LIGHTING There will one (1) HiViz Model FT-B-72-*, 21,067 effective lumens 2.56" high x 72.69" long x 2.45" deep 12 volt DC light(s) with white LEDs and with a combination of spot, and flood optics installed on the apparatus located, driver side of body on catwalk above LS3.. The painted parts of the light housing and brackets to be black. The light(s) will be controlled by the same control that has been selected for the driver's side scene light(s). The light(s) may be load managed when the parking brake is applied.
0729276	Lights, Hose Bed, Front/Rear, Light Strips, AAT	HOSE BED LIGHTS There will be 12 volt DC light strips with stainless steel protective covers and white LEDs provided to illuminate the hose bed area per the following: A light strip will be installed along the front edge of the hose bed facing rearward. A light strip will be installed under the boom support facing forward. The lights will be activated by a cup switch at the rear of the apparatus no more than 72.00" from the ground.
0645677	Lights, Not Required, Rear Work, Alt. 12 Volt Lights At Rear Body	
0645637	Lights, Rear Scene, Wln, PEL*C LED, 45 Deg Flange	REAR SCENE LIGHT(S) There will be two (2) Whelen, Model PEL*C, 2.25" high x 7.88" wide x 1.63" deep LED scene light (s) with 45 degree chrome housing installed at the rear of the apparatus, rear of truck, one each side, mid height . The light(s) will be controlled by a switch at the driver's side switch panel, by a switch at the driver's side pump panel and by a switch in a stainless steel cup located at the rear of the apparatus no more than 72.00" from the ground. The light(s) may be load managed when the parking brake is applied.
0892702	Lights, Walk Surf, Amdor AY-LB-12HW020, P25 LED, 100AAT	WALKING SURFACE LIGHT There will be two (2) Model P25 12 volt DC LED lights with chrome housing provided to illuminate the top of body walking surface. These LED lights will be located on the rear facing surface of the upper portion of the body to illuminate the walking surface to the platform basket. There will be one (1) Amdor®, Model AY-LB-12HW020, 350 lumen, 20" long, white 12 volt DC LED strip light located on the tower cradle, facing the rear of the body, to illuminate the walking area directly behind the tower cradle. These lights will be activated when "Aerial Master" is on.
0771870	Aerial, 100AAT, Alum Body	
0554271	Body Skirt Height, 20"	

0769002	Tank, Water, 300 Gallon, Poly, 100AAT	WATER TANK The water tank will have a capacity of 300 gallons and will be constructed of UV stabilized ultra high impact polypropylene plastic. The joints and seams will be nitrogen welded inside and out. The tank will be baffled in accordance with the current edition of applicable NFPA standards. The baffles will have vent openings at both the top and bottom of each baffle to permit movement of air and water between compartments. The longitudinal partitions will be constructed of 0.38" polypropylene plastic and extend from the bottom of the tank through the top cover to allow positive welding. The transverse partitions extend from 4.00" off the bottom to the underside of the top cover. All partitions interlock and will be welded to the tank bottom and sides. The tank top will be constructed of 0.50" polypropylene. It will be recessed 0.38" and will be welded to the tank sides and the longitudinal partitions. It will be supported to keep it rigid during fast filling conditions. Construction will include 2.00" polypropylene dowels spaced no more than 30.00" apart and welded to the transverse partitions. Two (2) of the dowels will be drilled and tapped (0.50" diameter, 13.00" deep) to accommodate lifting eyes. A sump will be provided at the bottom of the water tank. The sump will include a drain plug and the tank outlet. Tank will be installed on top of the torque box with the use of two (2) brackets constructed of structural steel. The torque box will resist transferring any torsional stress caused by the chassis frame flexing to the water tank. Rubber cushions, 0.50" thick x 3.00" wide, will be placed on all horizontal surfaces that the tank rests on. Stops will be provided to prevent an empty tank from bouncing excessively while moving vehicle. Tank mounting system will be approved by the manufacturer.
0751917	Overflow, 3.00" Water Tank, Poly	Fill tower will be constructed of .50" polypropylene and will be a minimum of 6.00" wide x 12.00" long. Fill tower will be furnished with a .25" thick polypropylene screen and a hinged cover. An overflow pipe, constructed of 3.00" schedule 40 polypropylene, will be installed approximately halfway down the fill tower and extend through the water tank and exit to the rear of the rear axle.
0028107	Not Required, Foam Cell Modification	
0003429	Not Required, Direct Tank Fill	
0769016	Hose Bed, Alum, Right Side, 100AAT	HOSE BED The hose bed will be fabricated of 0.125" 5052-H32 aluminum with a tensile strength range of 31,000 to 38,000 psi. The hose bed will be located between the aerial boom support and water tank. There will be a hose chute to the side and rear of the hose bed on the right side to allow for payout/removal of the hose. The hose bed flooring will consist of removable aluminum grating with a top surface that is perforated to aid in hose aeration.
0723546	DA Finished Hose Bed/Cargo Area	The hose bed/cargo area walls will be unpainted and dual action finished.
0555137	Hose Bed Capacity 800' of 5.00", 100AAT, 100' RMAP	Hose capacity will be a minimum of 800 feet of 5.00" large diameter hose.
0748063	Hose Restraint, Front Vinyl/Treadplate, 1" Heavy Nylon Web Rear, RS, 100AAT	AERIAL HOSE BED HOSE RESTRAINT The hose in the hose bed will be restrained as follows: The hose bed forward of the aerial boom support and in the upper body area will be restrained by a black vinyl cover with Velcro® securing all four (4) sides. The hose bed chute located under the aerial basket will be restrained by an aluminum treadplate cover and guide plate at the transition point of the upper hose bed to the lower hose chute. The cover will hinge to the inside to allow ease of access to the hose. The rear of the hose bed chute will be restrained with black webbing that will have 1.00" web straps that loop through footman loops and fasten with spring clip and hook fasteners.
0003512	Running Boards, Ascendant, PAL	RUNNING BOARDS The running boards will be fabricated of 0.125" bright aluminum treadplate and supported by structural steel angle assemblies bolted to the chassis frame rails. Running boards will be 13.00" deep and are spaced away from the body 0.50". A splash guard will be provided to keep road dirt or water from splashing up onto the pump panels. The running boards will have a riser on the body to protect the painted surface from damage by stepping on the running boards. The entire surface of the running boards will be covered with bright aluminum treadplate.

0735582	Turntable Steps, Swing-Down, Left Side, 100AAT	TURNTABLE STEPS Access to the turntable will be provided by a set of swing-down steps on the left side of the truck. The bottom step to be a flip down, stirrup step. The bottom step will have a step height not exceeding 24.00" from the ground to the top surface of the step at any time. All steps will have a height no greater than 14.00" from top surface to top surface. The access steps will be located just behind the front body and in front of the middle stabilizer. The swing down step assembly will be constructed of D/A finished aluminum with bright aluminum treadplate steps. The steps to have a punched grip pattern design. The stepwell will be lined with bright aluminum treadplate to act as scuffplates. A knurled aluminum handrail will be provided on the left side of the steps. Holes will be provided in each side step plate for hand holds. The steps will be connected to the "Do Not Move Truck" indicator in the cab.
0889980	Lights, Step (3), P25 LED, One Side	STEP LIGHTS There will be three (3) white P25 LED step lights provided for the aerial turntable access steps. In order to ensure exceptional illumination, each light will provide a minimum of 25 foot-candles (fc) covering an entire 15" x 15" square placed ten (10) inches below the light and a minimum of 1.5 fc covering an entire 30" x 30" square at the same ten (10) inch distance below the light. The step lights will be activated by when the aerial master switch is activated.
0690023	Wall, Rear, Smooth Aluminum	SMOOTH ALUMINUM REAR WALL The rear wall will be smooth aluminum.
0074515	Tow Eyes (2), Painted Lower Job Color, 100AAT, Ascendant Single Axle, 75' HAL	TOW EYES Two (2) rear painted tow eyes will be located at the rear of the apparatus and will be mounted directly to the frame rails. The inner and outer edges of the tow eyes will be radiused. Each tow eye will be rated for 9000 lb. The tow eyes will be painted to match the lower job color.
0769019	Construction, Compt, Alum, 100AAT	COMPARTMENTATION Compartmentation will be fabricated of 0.125" 5052 aluminum. Side compartments will be an integral assembly with the rear fenders. Circular fender liners will be provided. For prevention of rust pockets and ease of maintenance, the fender liners will be formed from aluminum and removable for maintenance. Compartment flooring will be of the sweep out design with the floor higher than the compartment door lip. Drip protection will be provided above the doors by means of bright aluminum extrusion, formed bright aluminum treadplate or polished stainless steel. The top of the compartment will be covered with bright aluminum treadplate rolled over the edges on the front, rear and outward side. These covers will have the corners welded. Side compartment covers will be separate from the compartment tops. All screws and bolts, which are not Grade 8, will be stainless steel and where they protrude into a compartment will have acorn nuts on the ends to prevent injury. UNDERBODY SUPPORT SYSTEM The backbone of the body support system will begin with the aerial torque box which is the strongest component of the apparatus and is designed for sustaining maximum loads. An aluminum body structure will be mounted to the aerial torque box at four (4) points using neoprene elastomer isolators. The front mounts will attach from structural steel brackets on the sides of the torque box to a structural tube on the body. The rear mounts will attach structural members on the rear body to the top of the rear down rigger mounting structure. The combination of the elastomer isolators and the body structure design allow the chassis and torque box to flex without driving loads into the body. The compartment floor support design will result in an 800 lb equipment support rating per lower compartment, and a 500 lb equipment support rating for the upper, over the axle compartments. AGGRESSIVE WALKING SURFACE All exterior surfaces designated as stepping, standing, and walking areas will comply with the required average slip resistance of the current NFPA standards. LOUVERS All body compartments will be vented to provide one (1) way airflow out of the compartment that prevents water and dirt from gaining access to the compartment. TESTING OF BODY DESIGN Body structural analysis will be fully tested. Proven engineering and test techniques such as finite element analysis, model analysis, and strain gauging have been performed with special attention given to fatigue, life and structural integrity of the body and substructure. The body will be tested while loaded to its greatest in-service weight. The criteria used during the testing procedure will include: - Raising opposite corners of the vehicle tires 9.00" to simulate the twisting a truck may experience when driving over a curb. - Making a 90 degree turn, while driving at 20 mph to simulate aggressive driving conditions. - Driving the vehicle on at 35 mph on a washboard road. - Driving the vehicle at 55 mph on a smooth road. - Accelerating the vehicle fully, until reaching the approximate speed of 45 mph on rough pavement.

0771504	Compt, Left Side, Roll, 100AAT	LEFT SIDE COMPARTMENTATION The override door forward of the stabilizer will include a pair of SouthCo C2 black raised trigger lever latches. A full height rollup door compartment ahead of the rear wheels will be approximately 29.16" wide x 23.25" high (floor to false ceiling) x 27.13" deep inside with a minimum clear door opening of approximately 26.38" wide x 21.37" high. One (1) rollup door compartment above the fender compartments and over the rear axles will be provided. The compartment will be approximately 84.00" wide x 16.50" high (floor to false ceiling) x 27.13" deep inside with a minimum clear door opening of approximately 81.25" wide x 15.25" high. A full height rollup door compartment behind the rear wheels will be approximately 41.25" wide x 47.00" high (floor to false ceiling) x 27.13" deep. The minimum clear door opening will be approximately 38.50" wide x 47.00" high. One (1) rollup door compartment behind the rear stabilizer will be provided. The compartment will be approximately 18.13" wide x 38.63" high (floor to false ceiling) x 27.13" deep inside with a minimum clear door opening of approximately 15.50" wide x 38.87" high. Roll-up door compartments will include a drip pan below the roll of the door.
0771505	Compt, Right Side, Roll, 100AAT	RIGHT SIDE COMPARTMENTATION A full height rollup door compartment ahead of the front stabilizer will be provided. The compartment will be approximately 18.38" wide x 27.75" high (floor to false ceiling) x 9.91" deep inside with a minimum clear door opening of approximately 15.63" wide x 28.37" high. A full height rollup door compartment ahead of the rear wheels will be approximately 29.13" wide x 23.25" high (floor to false ceiling) x 27.13" deep inside with a minimum clear door opening of approximately 26.38" wide x 21.37" high. One (1) rollup door compartment above the fender compartments and over the rear axles will be approximately 59.00" wide x 16.50" high (floor to false ceiling) x 15.75" deep inside with a minimum clear door opening of approximately 56.25" wide x 15.25" high. A full height rollup door compartment behind the rear wheels will be approximately 41.25" wide x 47.00" high (floor to false ceiling). It will be 27.13" deep in the lower 41.50" of compartment height and 15.75" deep in the remaining upper portion. The minimum clear door opening will be approximately 38.50" wide x 47.00" high. One (1) rollup door compartment behind the rear stabilizer will be approximately 18.13" wide x 38.63" high (floor to false ceiling) x 27.13" deep inside with a minimum clear door opening of approximately 15.50" wide x 38.87" high. Roll-up door compartments will include a drip pan below the roll of the door.
0766483	Doors, Gortite Rollup, Side Compartments	SIDE COMPARTMENT ROLL-UP DOORS There will be nine (9) compartment doors installed on the side compartments. The Gortite doors will be double faced aluminum construction and painted one (1) color to match the lower portion of the body. Lath sections will be an interlocking rib design and will be individually replaceable without complete disassembly of door. Between each slat at the pivoting joint will be a PVC inner seal to prevent metal to metal contact and prevent dirt or moisture from entering the compartments. Seals will allow door to operate in extreme temperatures ranging from plus 180 to minus 40 degrees Fahrenheit. Side, top and bottom seals will be provided to resist ingress of dirt and weather and be made of Santoprene. All hinges, barrel clips and end pieces will be nylon 66. All nylon components will withstand temperatures from plus 300 to minus 40 degrees Fahrenheit. A polished stainless steel lift bar to be provided for each roll-up door. Lift bar will be located at the bottom of door and have latches on the outer extrusion of the doors frame. A ledge will be supplied over lift bar for additional area to aid in closing the door. Doors will be constructed from an aluminum box section. The exterior surface of each slat will be flat. The interior surfaces will be concave to provide strength and prevent loose equipment from jamming the door from inside. To conserve space in the compartments, the spring roller assembly will not exceed 3.00" in diameter. The header for the rollup door assembly will not exceed 4.00". A heavy-duty magnetic switch will be used for control of open compartment door warning lights.
0740006	Bumper, Rear, 3", Counterweight, Steel, Full 45 Degree Angled Corners, 100AAT	REAR BUMPER A 3.00" rear bumper will be furnished. Bumper will be constructed of steel and will be covered with polished aluminum treadplate. The bumper will be 2.50" deep x 4.00" high and will be spaced away from the body approximately 0.50". The corners of the bumper will be angled at 45 degrees to be flush with the angled rear body. It will extend the full width of the body.
0603083	Lights, Compt,Pierce LED,Dual Light Strips,Each Side Dr,Ascend TA,75'HAL,PAP,HDL	COMPARTMENT LIGHTING There will be nine (9) compartment(s) with two (2) white 12 volt DC LED compartment light strips. The dual light strips will be centered vertically along each side of the door framing. There will be two (2) light strips per compartment. The dual light strips will be in all body compartment(s). Any remaining compartments without light strips will have a 6.00" diameter Truck-Lite, Model: 79384 light. Each light will have a number 1076 one filament, two wire bulb. Opening the compartment door will automatically turn the compartment lighting on.

0687145	Shelf Tracks, Recessed, PUC/3rd Generation	MOUNTING TRACKS There will be recessed tracks installed vertically to support the adjustable shelf(s). Tracks will not protrude into any compartment in order to provide the greatest compartment space and widest shelves possible. The tracks will be provided in each compartment except for the one that contains the pump operator's panel.
0600289	Shelves, Adj, 500 lb Capacity, Full Width/Depth, Predefined Locations, Aerial	ADJUSTABLE SHELVES There will be six (6) shelves with a capacity of 500 lb provided. The shelf construction will consist of .188" aluminum painted spatter gray with 2.00" sides. Each shelf will be infinitely adjustable by means of a threaded fastener, which slides in a track. The shelves will be held in place by .12" thick stamped plated brackets and bolts. The location(s) will be in RS1 centered between the floor and the ceiling, in RS2 centered between the floor and the ceiling, in RS3 centered between the floor and the ceiling, in LS1 centered between the floor and ceiling, in LS2 centered between the floor and ceiling and in LS3 centered between the floor and ceiling.
0647772	Tray, Floor Mounted, Slide-Out, 500lb, 2.00" Sides, 3G	SLIDE-OUT FLOOR MOUNTED TRAY There will be four (4) floor mounted slide-out tray(s) with 2.00" sides provided LS2, LS4, RS2, RS4. Each tray will be rated for up to 500lb in the extended position. The tray(s) will be constructed of .19" aluminum with non-welded corners. The finish will be painted spatter gray. There will be two undermount-roller bearing type slides rated at 250lb each provided. The pair of slides will have a safety factor rating of 2. To ensure years of dependable service, the slides will be coated with a finish that is tested to withstand a minimum of 1,000 hours of salt spray per ASTM B117. To ensure years of easy operation, the slides will require no more than a 50lb force for push-in or pull-out movement when fully loaded after having been subjected to a 40 hour vibration (shaker) test under full load. The vibration drive file will have been generated from accelerometer data collected from a heavy truck chassis driven over rough gravel roads in an unloaded condition. Proof of compliance will be provided upon request. Automatic locks will be provided for both the "in" and "out" positions. The trip mechanism for the locks will be located at the front of the tray for ease of use with a gloved hand.
0061917	Rub Rail, Aluminum Extruded, 3.12", Side of Body	RUB RAIL Bottom edge of the side compartments will be trimmed with a bright aluminum extruded rub rail. Trim will be 3.12" high with 1.50" flanges turned outward for rigidity. The rub rails will not be an integral part of the body construction, which allows replacement in the event of damage.
0769018	Fender Crowns, Rear, S/S, w/Removable Fender Liner, Aerial, 3G, Two Pair	BODY FENDER CROWNS Polished stainless steel fender crowns will be provided around the rear wheel openings. An unpainted fender liner will be provided to avoid paint chipping. The liners will be removable to aid in the maintenance of rear suspension components. A dielectric barrier will be provided between the fender crown fasteners (screws) and the fender sheet metal to prevent corrosion. The fender crowns will be held in place with stainless steel screws that thread directly into a composite nut and not directly into the parent body sheet metal to eliminate dissimilar metals contact and greatly reduce the chance for corrosion.
0519849	Not Required, Hose, Hard Suction	HARD SUCTION HOSE Hard suction hose will not be required.
0893756	Handrails, Side Pump Panels, Per Print, Aerial	HANDRAILS The handrails will be 1.25" diameter knurled aluminum to provide a positive gripping surface. Chrome plated end stanchions will support the handrail. Plastic gaskets will be used between end stanchions and any painted surfaces. Drain holes will be provided in the bottom of all vertically mounted handrails. Handrails will be provided to meet current edition of applicable NFPA standards. The handrails will be installed as noted on the sales drawing. There is to be a step provided below the right side running board.
0765324	Compt, Air Bottle/Extinguisher,Between Tandems,Three (3),w/Straps,100AAT,Bolt-In	THREE AIR BOTTLE/EXTINGUISHER STORAGE COMPARTMENT A total of two (2) air bottle compartments will be provided and located on the left side and the right side centered between the tandem rear wheels. The compartment will be designed to hold air bottles or extinguishers with a maximum diameter of 8.00" and a maximum depth of 26.00". Each compartment will hold three (3), two (2) stored next to each other in the top area, and one (1) stored centered below. The top area will be separated from the bottom area by a divider. A drain hole and black rubber matting will be provided on the floor of each compartment. A lift up with pneumatic spring with a pair of Southco raised trigger C2 black lever latches will be provided for each compartment. The door will be painted stainless steel. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal. COMPARTMENT STRAP Straps will be provided in the compartment(s) to help contain the equipment. The straps will wrap around the neck of each and attach to the wall of the compartment.

0795333	Compt, Air Bottle, Single, Fender Panel, Bolt-In	AIR BOTTLE STORAGE (Single) A quantity of four (4) air bottle compartments, approximately 7.50" wide x 7.50" tall x 26.00" deep, will be provided on the left side forward of the rear wheels, on the left side rearward of the rear wheels, on the right side forward of the rear wheels and on the right side rearward of the rear wheels. The compartment will be square with angled corners. A painted stainless steel door with a Southco raised trigger C2 black lever latch will be provided to contain the air bottle. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal. Inside the compartment, black rubber matting will be provided.
0768635	Ladder, 35' Duo-Safety 1200A 2-Sect	EXTENSION LADDER There will be two (2) 35' two (2) section aluminum Duo-Safety Series 1200-A extension ladder(s) provided.
0010406	Ladder, 28' Duo-Safety 1200A 2-Section	AERIAL EXTENSION LADDERS There will be one (1) 28' two (2) section aluminum Duo-Safety Series 1200-A extension ladder(s) provided and located in the aerial torque box.
0024232	Ladder, 16' Duo-Safety 875A Roof	ROOF LADDER There will be one (1) 16' aluminum Duo-Safety Series 875-A roof ladder(s) provided.
0648681	Ladder, 14' Duo-Safety 875-DR Roof	ADDED ROOF LADDER There will be one (1) aluminum, 14' Duo Safety 875-DR roof ladder provided fly section of aerial.
0014232	Ladder, 20' Duo-Safety 875A Roof	ADDED ROOF LADDER There will be one (1) 20' roof, aluminum, Series 875-A provided.
0024233	Not Required, Attic Extension Ladder	
0768634	Ladder, 10' Duo-Safety Folding, 585A	AERIAL FOLDING LADDER There will be two (2) 10' aluminum Duo-Safety Series 585-A folding ladder(s) provided and located in the aerial torque box.
0806199	Ladders in Torque Box, Gortite Roll, Retainer Latch, 100AAT	GROUND LADDER STORAGE The ground ladders are stored within the torque box and are removable from the rear. Ladders will be enclosed to prevent road dirt and debris from fouling or damaging the ladders. The ladders rest in full length stainless steel slides and are arranged in such a manner that any one ladder can be removed without having to move or remove any other ladder. A Gortite rollup door will be provided at the rear, double faced, aluminum construction, and an anodized satin finish. A polished stainless steel lift bar to be provided for the rear roll-up door. The latching mechanism will consist of a full length lift bar lock with latches on the outer extrusion of the door frame. A 6.00" tall stainless plate with a two bend flange and a stainless steel hinge will be provided to secure the aerial ladder complement. The plate assembly will be mounted to the bottom of the entrance of the torque box ladder storage area. When the plate is vertical, it will secure the ladders and prevent them from migrating to the rear of the apparatus. When the plate is down and not securing the ladders, the roll-up door can not close, which will activate the "Open Door Indicator Light" within the cab. The roll-up door together with a Southco raised trigger C2 chrome lever latch on each side of the plate will secure the plate in place during driving operations. Compartment Storage Below the ground ladder storage will be a water resistant storage compartment with interior measurements of 36.75" wide x 14.88" high x 19.75" deep. The compartment will have a single pan, drop down door with a pair of Southco raised trigger C2 chrome latches. The compartment and door material will match body interior. The opening will be 32.38" wide x 11.75" high.
0766602	Lights, Torque Box Ladder Storage, Pierce LED Strip Lights, 2 Lts, 100AAT	LADDER STORAGE LIGHTING There will be 36.00" white 12 volt DC LED strip lights provided to illuminate the torque box ladder storage area and the compartment directly below the ladder storage. One (1) light will be provided on each side of the ladder storage area. The lights will be activated when the ladder storage compartment door is opened.
0788575	Pike Pole, 12' Fire Hooks Unlimited, NY Roof Hook, Fiberglass, RH-12, Pry End	12' PIKE POLES There will be two (2) Fire Hooks Unlimited Model RH-12' New York Roof Hook with a fiberglass shaft and pry end provided. The pike pole(s) will be stored in tubular holders located in the ground ladder storage compartment.
0567897	Pike Pole, 8' Fire Hooks Unlimited, New York Roof Hook, Steel, Pry End, RH-8	8' PIKE POLE There will be two (2) Fire Hooks Unlimited, New York Hook, 8' long roof hook with steel shaft and chisel (pry) end provided in ladder storage.

0634020	Pike Pole, 6' Fire Hooks Unlimited, New York Roof Hook, Steel, Gas Shut Off,RH-6	6 FT PIKE POLE There will be two (2) Fire Hooks Unlimited NY roof hook RH-6, 6" pike pole(s) with steel shaft and gas shut off end provided.
0548410	Not Required, Pole, Pike, 3'	
0770578	Pike Pole Tubes, in Torque Box/Ladder Storage, ABS	PIKE POLE STORAGE IN TORQUE BOX/LADDER STORAGE There will be ABS tubing provided in the torque box/ladder storage area for a total of six (6) pike poles. If the head of a pike pole can come into contact with a painted surface, a stainless steel scuffplate will be provided.
0765390	Pump House, Side Control, 42", 100AAT, Control Zone	PUMP COMPARTMENT The pump compartment will be separate from the hose body and compartments so that each may flex independently of the other. The pump compartment will be constructed of the same material as the body compartmentation. The pump compartment substructure will be a fabricated assembly of steel tubing, angles and channels which supports both the fire pump and the side running boards. The pump compartment will be mounted on the chassis frame rails with rubber biscuits in a four point pattern to allow for chassis frame twist. Pump compartment, pump, plumbing and gauge panels will be removable from the chassis in a single assembly. PUMP MOUNTING Pump will be mounted to a substructure which will be mounted to the chassis frame rail using rubber isolators. The mounting will allow chassis frame rails to flex independently without damage to the fire pump. LEFT SIDE PUMP CONTROL PANELS All pump controls and gauges will be located at the left side of the apparatus and properly identified. Layout of the pump control panel will be ergonomically efficient and systematically organized. The pump operator's control panel will be removable in two (2) main sections for ease of maintenance: The upper section will contain sub panels for the mounting of the pump pressure control device, engine monitoring gauges, electrical switches, and foam controls (if applicable). Sub panels will be removable from the face of the pump panel for ease of maintenance. Below the sub panels will be located all valve controls and line pressure gauges. The lower section of the panel will contain all inlets, outlets, and drains. All push/pull valve controls will have 1/4 turn locking control rods with polished chrome plated zinc tee handles. Guides for the push/pull control rods will be chrome plated zinc castings securely mounted to the pump panel. Push/pull valve controls will be capable of locking in any position. The control rods will pull straight out of the panel and will be equipped with universal joints to eliminate binding. The linkage from the control rod to the valve will be stainless steel, this will not include the clevis ends of the linkage which will remain anodized steel. IDENTIFICATION TAGS The identification tag for each valve control will be recessed in the face of the tee handle. All discharge outlets will have color coded identification tags, with each discharge having its own unique color. Color coding will include the labeling of the outlet and the drain for each corresponding discharge. All line pressure gauges will be mounted directly above the corresponding discharge control tee handles and recessed within the same chrome plated casting as the rod guide for quick identification. The gauge and rod guide casting will be removable from the face of the pump panel for ease of maintenance. The casting will be color coded to correspond with the discharge identification tag. All remaining identification tags will be mounted on the pump panel in chrome plated bezels. Trim rings will be installed around all inlets and outlets.
0767048	Pump House Structure	
0828091	Pump, Waterous, ESU1, 2000 GPM, Single Stage, 100' AAT	PUMP Pump will be a Waterous ESU1 2000 gpm single (1) stage midship mounted centrifugal type. The pump will be end suction, single inlet type. Pump will be the class "A" type. Pump will deliver the percentage of rated discharge at pressure indicated below: 100 percent of rated capacity at 150 psi net pump pressure. 70 percent of rated capacity at 200 psi net pump pressure. 50 percent of rated capacity at 250 psi net pump pressure. The pump body will be cast in grey iron. It will have double striping edge volute to minimize radial forces at all flow rates. The impellers will be bronze, accurately balanced (mechanically and hydraulically), labyrinth type, wear rings that resist water bypass and loss of efficiency due to wear. The impeller shaft will be stainless steel, accurately ground to size. The impeller shaft will be supported at each end by oil or grease lubricated anti-friction ball bearings for rigid and precise support. Bearings will be protected from water and sediment by suitable seal housing, and oil seal. No sleeve type bearings will be used. The seal housings will be equipped with self-adjusting, maintenance-free, mechanical shaft seal.

0504116	Seal, Mechanical, Waterous, w/S100/ESU Pump	MECHANICAL SEAL ON PUMP Pump will be equipped with a self-adjusting, maintenance-free, mechanical shaft seal. The mechanical seal will consist of a flat, highly polished, spring fed carbon ring that rotates with the impeller shaft. The carbon ring will press against a highly polished stainless steel stationary ring that is sealed within the pump body. In addition, a throttling ring will be pressed into the steel chamber cover, providing a very small clearance around the rotating shaft in the event of a mechanical seal failure. The pump performance will not deteriorate, nor will the pump lose prime, while drafting if the seal fails during pump operation. Wear rings will be bronze and easily replaceable to restore original pump efficiency and eliminate the need to replace the entire pump casing due to wear.
0816450	Trans, Pump, Waterous C22, S100/ESU Pump Only	PUMP TRANSMISSION Pump transmission will be made of a three (3) piece, high tensile aluminum, horizontally split casing. Power transfer to pump will be through a passive lubricated, Morse HY-VO drive chain. Drive shafts will be a minimum of 2.35" diameter hardened and ground alloy steel. All shafts will be ball bearing supported. The case will be designed as to eliminate the need for water cooling.
0635600	Pumping Mode, Stationary Only	PUMPING MODE An interlock system will be provided to ensure that the pump drive system components are properly engaged so that the apparatus can be safely operated. The interlock system will be designed to allow stationary pumping only.
0605126	Pump Shift, Air Mnl Override, Split Shaft, Interlocked, Waterous	AIR PUMP SHIFT Pump shift engagement will be made by a two (2) position sliding collar, actuated pneumatically (by air pressure), with a three (3) position air control switch located in the cab. A manual back-up shift control will also be located on the left side pump panel. Two (2) indicator lights will be provided adjacent to the pump shift inside the cab. One (1) green light will indicate the pump shift has been completed and be labeled "pump engaged". The second green light will indicate when the pump has been engaged, and that the chassis transmission is in pump gear. This indicator light will be labeled "OK to pump". The pump shift will be interlocked to prevent the pump from being shifted out of gear when the chassis transmission is in gear to meet NFPA requirements. The pump shift control in the cab will be illuminated to meet NFPA requirements.
0003148	Transmission Lock-up, EVS	TRANSMISSION LOCK-UP The direct gear transmission lock-up for the fire pump operation will engage automatically when the pump shift control in the cab is activated.
0004547	Auxiliary Cooling System	AUXILIARY COOLING SYSTEM A supplementary heat exchange cooling system will be provided to allow the use of water from the discharge side of the pump for cooling the engine water. The heat exchanger will be a separate unit. It will be installed in the pump or engine compartment with the control located on the pump operator's control panel. The exchanger will be plumbed to the master drain valve.
0014486	Not Required, Transfer Valve, Single Stage Pump	
0746501	Valve, Relief Intake, Elkhart	INTAKE RELIEF VALVE - PUMP One (1) Elkhart Style 40 relief valve(s) will be installed on the suction side of the pump preset at 125 psig. The relief valve(s) will have a working range of 75 psi to 250 psi. The outlet will terminate below the frame rails with a 2.50" National Standard hose thread adapter and will have a "do not cap" warning tag. The relief valve pressure control will be located behind the right side pump panel with a stainless steel access door.

0826104	Controller, Pressure, FRC, Pump Boss Max, PBA500	PRESSURE CONTROLLER A FRC Pump Boss 500 electronic pressure controller with one (1) 600 PSI transducer on the pump discharge will be provided. All readouts will be standard PSI. When a single 300 psi or single 600 psi pressure transducer is selected the transducer is installed in the discharge side of the water pump. The transducer continuously monitors pump pressure sending a signal to the electronic pressure controller. When a dual 600 psi pressure transducer is selected the transducer are installed in the discharge side and intake side of the water pump. The discharge transducer continuously monitors pump pressure sending a signal to the electronic pressure controller. The intake transducer continuously monitors the pump intake sending a signal to the electronic pressure controller. The pressure controller can be used in two (2) modes of operation, RPM mode and pressure modes. The controller will be programmed to turn on/default to RPM Setting mode. In RPM mode, the controller can be activated after vehicle parking brake has been set. When in this mode, the controller will maintain the set engine speed, regardless of engine load (within engine operation capabilities). In pressure mode, the controller can be activated after vehicle parking brake has been set. When in this mode, the controller will automatically maintain the discharge pressure set by the operator (within the discharge capabilities of the pump and water supply) regardless of flow. A 2.00" diameter throttle control knob with no mechanical stops, a serrated grip, and a red idle push button in the center will be a integrated/part of the pressure controller. The throttle control knob will be programmed for Clockwise rotation to increase engine speed. Individual LED indicators for ok to pump, throttle ready, pressure mode and rpm mode will be located on the pressure controller for easy viewing. Safety features include recognition of low water and no water conditions with an automatic programmed response and a push button to return the engine to idle. An additional audible alarm will NOT BE provided. The pressure controller screen will be LCD. The LCD screen and LED intensity will be automatically adjust for day and nighttime operation. The LCD screen intensity can also be manually adjusted if needed. The following information will be provided/displayed on the LCD screen: Engine RPM Check engine and stop engine warning indicators Engine oil pressure Engine coolant temperature Transmission Temp Battery voltage Operating mode (RPM or pressure) Pressure or RPM setting On screen messaging show diagnostic and warning messages as they occur. It will show apparatus information, stored data, and program options when selected by the operator. It will monitor inputs outputs 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 water pump temperature Low engine oil pressure High engine coolant temperature No engine response (visual alarm only) The pressure controller will store the accumulated operating hours for the pump and engine. These items are to be displayed within the pressure controller menu. The pressure controller will include a USB port on the back of the controller for easy software upgrades if needed.
0072153	Primer, Trident, Air Prime, Air Operated	PRIMING PUMP The priming pump will be a Trident Emergency Products compressed air powered, high efficiency, multistage venturi based AirPrime System, conforming to standards outlined in the current edition of applicable NFPA standards. All wetted metallic parts of the priming system are to be of brass and stainless steel construction. One (1) priming control will open the priming valve and start the pump primer.
0780364	Manuals, Pump, (2) Total, Electronic Copies	PUMP MANUALS There will be a total of two (2) pump manuals provided by the pump manufacturer and furnished with the apparatus. The manuals will be provided by the pump manufacturer in the form of two (2) electronic copies. Each manual will cover pump operation, maintenance, and parts.
0602492	Plumbing, Stainless Steel and Hose, Single Stage Pump, 100AAT	PLUMBING, STAINLESS STEEL AND HOSE All inlet and outlet lines will be plumbed with either stainless steel pipe, flexible polypropylene tubing or synthetic rubber hose reinforced with hi-tensile polyester braid. All hose's will be equipped with brass or stainless steel couplings. All stainless steel hard plumbing will be a minimum of a schedule 10 wall thickness. Where vibration or chassis flexing may damage or loosen piping or where a coupling is required for servicing, the piping will be equipped with victaulic or rubber couplings. Plumbing manifold bodies will be ductile cast iron or stainless steel. All piping lines are to be drained through a master drain valve or will be equipped with individual drain valves. All drain lines will be extended with a hose to drain below the chassis frame. All water carrying gauge lines will be of flexible polypropylene tubing. All piping, hose and fittings will have a minimum of a 500 PSI hydrodynamic pressure rating.
0089437	Plumbing Without Foam System	

0751029	Inlets, 6.00", (1) Left Side, (1) Right Side, 1500-2000 GPM Pump, 100AAT	MAIN PUMP INLETS Two (2) 6.00" pump inlets will be provided. One (1) on the left side and One (1) on the right side of the vehicle. The suction inlets will include removable zinc screens that are designed to provide cathodic protection for the pump, thus reducing corrosion in the pump.
0004646	Cap, Main Pump Inlet, Long Handle, NST, VLH	MAIN PUMP INLET CAP The main pump inlets will have National Standard Threads with a long handle chrome cap. The cap will be the Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.
0084610	Valves, Akron 8000 series- All	VALVES All ball valves will be Akron® Brass. The Akron valves will be the 8000 series heavy-duty style with a stainless steel ball and a simple two-seat design. No lubrication or regular maintenance is required on the valve. Valves will have a ten (10) year warranty.
0016158	Valve, Inlet(s) Recessed, Side Cntrl, "Control Zone"	The location of the valve for the one (1) inlet will be recessed behind the pump panel.
0004700	Control, Inlet, at Valve	INLET CONTROL The side auxiliary inlet(s) will incorporate a quarter-turn ball valve with the control located at the inlet valve. The valve operating mechanism will indicate the position of the valve.
0004660	Inlet (1), Left Side, 2.50"	LEFT SIDE INLET There will be one (1) auxiliary inlet with a 2.50" valve at the left side pump panel, terminating with a 2.50" (F) National Standard hose thread adapter. The auxiliary inlet will be provided with a strainer, chrome swivel and plug.
0029147	Not Required, Inlet, Right Side	
0723049	Valve, .75" Bleeder, Aux. Side Inlet, "T" Swing Handle	INLET BLEEDER VALVE A 0.75" bleeder valve will be provided for each side gated inlet. The valves will be located behind the panel with a "T" swing style handle control extended to the outside of the panel. The handles will be chrome plated and provide a visual indication of valve position. The swing handle will provide an ergonomic position for operating the valve without twisting the wrist and provides excellent leverage. The water discharged by the bleeders will be routed below the chassis frame rails.
0767284	Tank to Pump, (1) 3.00" Valve, 3.00" Plumbing, 100AAT	TANK TO PUMP The booster tank will be connected to the intake side of the pump with heavy duty piping and a quarter turn 3.00" full flow line valve with the control remotely located at the operator's panel. Tank to pump line will run from the pump into the front face of the water tank and angle down into the tank sump. A rubber coupling will be included in this line to prevent damage from vibration or chassis flexing. A check valve will be provided in the tank to pump supply line to prevent the possibility of "back filling" the water tank.
0004905	Outlet, Tank Fill, 1.50"	TANK REFILL A 1.50" combination tank refill and pump re-circulation line will be provided, using a quarter-turn full flow ball valve controlled from the pump operator's panel.
0062133	Control, Outlets, Manual, Pierce HW if applicable	DISCHARGE OUTLET CONTROLS The discharge outlets will incorporate a quarter-turn ball valve with the control located at the pump operator's panel. The valve operating mechanism will indicate the position of the valve. If a handwheel control valve is used, the control will be a minimum of a 3.90" diameter stainless steel handwheel with a dial position indicator built into the center of the handwheel. Any 3.00 inch or larger discharge valve will be a slow-operating valve to meet current edition of applicable NFPA standards.
0004940	Outlet, Left Side, 2.50"	LEFT SIDE DISCHARGE OUTLETS Two (2) discharge outlets with a 2.50" valve will be provided on the left side of the apparatus, terminating with a 2.50" (M) National Standard hose thread adapter.

0005091	Elbow, Left Side Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	LEFT SIDE OUTLET ELBOWS The 2.50" discharge outlets located on the left side pump panel will be furnished with a 2.50" (F) National Standard hose thread x 2.50" (M) National Standard hose thread, chrome plated, 45 degree elbow. The elbow will be Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.
0004945	Outlet, Right Side, 2.50"	RIGHT SIDE DISCHARGE OUTLET One (1) discharge outlet with a 2.50" valve will be provided on the right side of the apparatus, terminating with a 2.50" (M) National Standard hose thread adapter.
0025091	Elbow, Right Side Outlets, 45 Degree, 2.50" FNST x 2.50" MNST, VLH	RIGHT SIDE OUTLET ELBOWS The 2.50" discharge outlets located on the right side pump panel will be furnished with a 2.50" (F) National Standard hose thread x 2.50" (M) National Standard hose thread, chrome plated, 45 degree elbow. The elbow will be Pierce VLH, which incorporates an exclusive thread design to automatically relieve stored pressure in the line when disconnected.
0821949	Outlet, Large Diameter, Right Side, Akron Valve, 100AAT	LARGE DIAMETER DISCHARGE OUTLET There will be an Akron 8800 4.00" flat ball valve with 4.00" plumbing terminating with a 4.00" MNST chrome adapter on the right side pump panel. The valve will be controlled with a(n) Pierce small handwheel with indicator located at the pump operator's panel.
0005097	Elbow, Large Dia Outlet, 30 Deg, 4.00" FNST x 5.00" Storz	LARGE DIAMETER OUTLET ELBOWS The 4.00" outlet(s) will be furnished with one (1) 4.00" (F) National Standard hose thread x 5.00" Storz elbow adapter with Storz cap.
0092572	Not Required, Outlet, Front	
0752096	Caps/Plugs for 1.00" to 3.00" Discharges/Inlets, Vinyl Covered Cable	DISCHARGE CAPS/ INLET PLUGS Chrome plated, rocker lug, caps with vinyl covered cables will be furnished for all discharge outlets 1.00" thru 3.00" in size, besides the pre-connected hose outlets. Chrome plated, rocker lug, plugs with vinyl covered cables will be furnished for all auxiliary inlets 1.00" thru 3.00" in size. The caps and plugs will incorporate a thread design to automatically relieve stored pressure in the line when disconnected.
0723042	Valve, 0.75" Bleeder, Discharges, "T" Swing Handle	OUTLET BLEEDER VALVE A 0.75" bleeder valve will be provided for each outlet 1.50" or larger. Automatic drain valves are acceptable with some outlets if deemed appropriate with the application. The valves will be located behind the panel with a T swing style handle control extended to the outside of the side pump panel. The handles will be chrome plated and provide a visual indication of valve position. The T swing handle will provide an ergonomic position for operating the valve without twisting the wrist and provides excellent leverage. Bleeders will be located at the bottom of the pump panel. They will be properly labeled identifying the discharge they are plumbed in to. The water discharged by the bleeders will be routed below the chassis frame rails.
0029106	Not Required, Deluge Outlet	
0826320	Waterway Outlet & Control, Akron Valve, 100AAT	AERIAL WATERWAY OUTLET The aerial waterway will be plumbed from the water pump to the aerial device waterway with 5.00" pipe and a 4.00" Akron valve. The valve will be controlled with a Pierce small handwheel with indicator located at the pump operator's panel.
0762277	Crosslays Sngl Sheet Unpainted, (1+) 1.50" Std. Cap, 100AAT	CROSSLAY HOSE BEDS Two (2) crosslays with 1.50" outlets will be provided. Each bed to be capable of carrying 200' of 1.75" double jacketed hose and will be plumbed with 2.00" i.d. pipe and gated with a 2.00" quarter turn ball valve. Outlets to be equipped with a 1.50" National Standard hose thread 90 degree swivel located in the hose bed so that hose may be removed from either side of apparatus. The crosslay controls will be at the pump operator's panel. The center crosslay dividers will be fabricated of 0.25" aluminum and will provide adjustment from side to side. The divider will be unpainted with a brushed finish. Polished stainless steel vertical scuffplates will be provided at hose bed ends (each side of vehicle). Bottom of hose bed ends (each side) will also be equipped with a polished stainless steel scuffplate. Crosslay bed flooring will consist of removable perforated brushed aluminum.

0029196	Not Required, 2.50" Crosslay	
0623374	Hose Restraint, Crosslays, 2" Nylon Web, Seat Belt Buckle, Tether, Bar, Sides	CROSSLAY HOSE RESTRAINT A 2.00" black nylon webbing design restraint will be provided at each of the ends of two (2) crosslay(s) to secure the hose during travel. The webbing assembly is to be attached at the bottom of the crosslays, with footman loops and a permanent attachment, and is to attach at the top outside corners with seat belt buckles. The female end of the seat buckle will be permanently attached at the top corner of the opening. A bar will be attached to the female ends of the seat belt buckles to allow a single pull release. A single orange nylon strap will be attached to the bar for releasing the buckles on the webbing.
0590891	Hose Restraint, Crosslay/Deadlay, Velcro Straps, Top	CROSSLAY/DEADLAY HOSE RESTRAINT The crosslay/deadlay hosebed(s) will have two (2) 2.00" wide black nylon straps with Velcro fasteners provided across the top to secure the hose during travel. The straps will extend from the front to back across the top of the hosebed(s).
0044333	Not Required, Foam System	FOAM SYSTEM A foam system will not be required on this apparatus.
0012126	Not Required, CAF Compressor	
0552517	Not Required, Refill, Foam Tank	
0042573	Not Required, Foam System Demonstration	
0045465	Not Required, Foam Tanks	
0091110	Not Required, Foam Tank Drain	
0091112	Not Required, Foam Tank #2 Drain	
0738072	Approval Dwg, Pump Panel(s), Not Required	
0032479	Pump Panel Configuration, Control Zone	PUMP PANEL CONFIGURATION The pump panel configuration will be arranged and installed in an organized manner that will provide user-friendly operation.
0747651	Step, Slide-Out/Fold-Out, Pump Operator Platform, 100AAT	PUMP OPERATOR'S PLATFORM A pull out, flip down platform will be provided at the pump operator's control panel. The front edge and the top surface of the platform will be made of DA finished aluminum with a Morton Cass insert. The platform will be approximately 13.75" deep when in the stowed position and approximately 22.00" deep when extended. The platform stepping surface will be 28.00" wide. The platform will lock in the retracted and the extended position. The platform will be wired to the "step not stowed" indicator in the cab.
0769430	Light, Slide-Out Pump Operator Step, Amdor AY-LB-12HW020, Short Step	PUMP OPERATOR'S PLATFORM PERIMETER LIGHT There will be an Amdor, Model AY-LB-12HW020, 350 lumens each, 20.00" white 12 volt DC LED strip light provided to illuminate the ground area.
0635355	Material, Pump Panels, Side Control Painted FormCoat Black	PUMP AND GAUGE PANEL The pump and gauge panels will be constructed of aluminum with a painted FormCoat black finish. A polished aluminum trim molding will be provided around each panel.
0723264	Panel, Pump Access - Right Side Only, 100AAT	PUMP ACCESS Right Side Panel The right side upper pump panel will be removable. Panel Fastener The removable panels will be secured with chrome flush lift and turn latch. The left side pump panels will be attached with screws. The right side lower pump panel (drain bank) will be attached with screws.

0583824	Light, Pump Compt, Wln 3SC0CDCR LED White	PUMP COMPARTMENT LIGHT There will be one (1) Whelen®, Model 3SC0CDCR, 3.00" white 12 volt DC LED light(s) with Whelen, Model 3FLANGEC, flange(s) installed in the pump compartment.
0586382	Gauges, Engine, Included With Pressure Controller	Engine monitoring graduated LED indicators will be incorporated with the pressure controller. Also provided at the pump panel will be the following: - Master Pump Drain Control
0005601	Throttle, Engine, Incl'd w/Press Controller	
0739224	Indicator Light @ Pump Panel, Throttle Ready, Incl w/Pressure Gov/Throttle,Green	THROTTLE READY GREEN INDICATOR LIGHT There will be a green indicator light integrated with the pressure governor and/or engine throttle installed on the pump operators panel that is activated when the pump is in throttle ready mode.
0549333	Indicators, Engine, Included with Pressure Controller	
0745568	Indicator Light, Pump Panel, Ok To Pump, Green	OK TO PUMP INDICATOR LIGHT There will be a green indicator light installed on the pump operators panel that is activated when the pump is in Ok To Pump mode.
0553643	Control, Air Horn at Pmp Pnl, Red Switch, Momentary	AIR HORN SWITCH An air horn control switch will be provided at the pump operator's control panel. This switch will be momentary red and properly labeled. The switch will be located within easy reach of the operator in the electrical switch panel.
0511078	Gauges, 4.00" Master, Class 1, 30"-0-600psi	VACUUM AND PRESSURE GAUGES The pump vacuum and pressure gauges will be liquid filled and manufactured by Class 1 Incorporated. The gauges will be a minimum of 4.00" in diameter and will have white faces with black lettering, with a pressure range of 30.00"-0-600#. Gauge construction will include a Zytel nylon case with adhesive mounting gasket and threaded retaining nut. The pump pressure and vacuum gauges will be installed adjacent to each other at the pump operator's control panel. Test port connections will be provided at the pump operator's panel. One (1) will be connected to the intake side of the pump, and the other to the discharge manifold of the pump. They will have 0.25 in. standard pipe thread connections and non-corrosive polished stainless steel or brass plugs. They will be marked with a label. This gauge will include a 10 year warranty against leakage, pointer defect, and defective bourdon tube.
0511100	Gauge, 2.00" Pressure, Class 1, 30"-0-400psi	PRESSURE GAUGES The individual "line" pressure gauges for the discharges will be Class 1 interlube filled. They will be a minimum of 2.00" in diameter and have white faces with black lettering. Gauge construction will include a Zytel nylon case with adhesive mounting gasket and threaded retaining nut. Gauges will have a pressure range of 30"-0-400#. The individual pressure gauge will be installed as close to the outlet control as practical. This gauge will include a 10 year warranty against leakage, pointer defect, and defective bourdon tube.
0062586	Gauge, Water Level, Class 1, Pierce Std	WATER LEVEL GAUGE There will be an electronic water level gauge provided on the operator's panel that registers water level by means of five (5) colored LED lights. The lights will be durable, ultra-bright five (5) LED design viewable through 180 degrees. The water level indicators will be as follows: 100 percent = Green 75 percent = Yellow 50 percent = Yellow 25 percent = Yellow Refill = Red The light will flash when the level drops below the given level indicator to provide an eighth of a tank indication. To further alert the pump operator, the lights will flash sequentially when the water tank is empty. The level measurement will be based on the sensing of head pressure of the fluid in the tank. The display will be constructed of a solid plastic material with a chrome plated die cast bezel to reduce vibrations that can cause broken wires and loose electronic components. The encapsulated design will provide complete protection from water and environmental elements. An industrial pressure transducer will be mounted to the outside of the tank. The field calibratable display measures head pressure to accurately show the tank level.

0006774	Not Required, Foam Level Gauge	
0735892	Light Shield, S/S LS & RS, 100AAT, Std LED	PUMP PANEL ILLUMINATION There will be two (2) stainless steel light shields installed over the pump operators panels per the following: One (1) shield over the left side pump panel One (1) shield over the right side pump panel The shields will include three (3) 12 volt DC lights with white LEDs to illuminate the controls, switches, essential instructions, gauges, and instruments necessary for the operation of the apparatus. The outside lights will be activated by the pump panel light switch. The left side center light will be activated when the pump is in "Ok to Pump" mode. The switch panel will be lit when the parking brake is set. This is to afford the operator illumination when first approaching the control panel.
0837190	Air Horns, (2) Grover Stuttertone, 6" Round, In Bumper, 100AAT	AIR HORN SYSTEM Two (2) Grover air horns will be recessed in the front bumper. The air horns will be chrome. The air horn system will be piped to the air brake system wet tank utilizing 0.38" tubing. A pressure protection valve will be installed to prevent the loss of air in the brake system.
0606833	Location, Air Horns, Bumper, Each Side, Inside Frame, (Pos #3 & #5)	Air Horn Location The air horns will be located on each side of the bumper, inside of the frame rails.
0757092	Control, Air Horn, Multi Select	Air Horn Control The air horn(s) will be activated by the following:
0757076	Control, Air Horn, Lanyard, RS	Right side lanyard. The lanyard to be vinyl covered 0.12" cable.
0757084	Control, Air Horn, Horn Ring	Steering wheel horn ring with electric/air horn selector switch
0533071	Siren, WIn 295SLSC1, 100 or 200 Watt, w/Plug-in/Detachable Microphone Cord	ELECTRONIC SIREN A Whelen, Model: 295SLSC1, electronic siren with a plug-in, detachable noise canceling microphone will be provided. This siren to be active when the battery switch is on and that emergency master switch is on.
0015283	Location, Elect Siren	ELECTRIC SIREN, LOCATION, Siren head will be mounted panel position A.
0748306	Control, Elec Siren, Multi Select	ELECTRONIC SIREN CONTROL The electronic siren will be activated by the following:
0748292	Control, Elec Siren, Push Button Sw, RS	The right side push button.
0601304	Speaker, (2) WIn, SA315P, w/Pierce Polished Stainless Steel Grille, 100 watt	SPEAKERS There will be two (2) Whelen®, Model SA315P, black nylon composite, 100-watt, speakers with through bumper mounting brackets and polished stainless steel grille provided. Each speaker will be connected to the siren amplifier.
0601557	Location, Speaker, Frt Bumper, Recessed, Ea Side, Outside Frame, Outbrd (Pos 1/7)	The speakers will be recessed in each side of the front bumper, towards the outside.
0895382	Siren, Federal Q2B, Enforcer, 100AAT	AUXILIARY MECHANICAL SIREN There will be a Federal Signal Model Q2B mechanical siren furnished and installed in the front of the apparatus. The Q2B siren will be chrome finish. The siren will have a 2-gauge cable connected to a power solenoid that is connected by a 2-gauge cable ran battery direct to the primary chassis batteries and will be labeled Q2B+ at the battery. The power solenoid will only be enabled when the emergency master switch is on. The siren will have a 2-gauge ground wire connected to the chassis battery stud. The cable will be labeled Q2B- at the battery.

0816506	Siren, Mechanical, Mounted Above Deckplate, Swivel, 100AAT, Finish Feature	The mechanical siren will be mounted on the bumper deck plate. It will be mounted in the center. The siren will be mounted on a bracket that swivels to the outside of the bumper to prevent the siren from damage when the cab is tilted. A proximity switch will installed with the swivel mount that will interlock to the cab lift system. The mount will be UL-LX black.
0026163	Control, Mech Siren, DS & PS Foot Sw	The mechanical siren will be actuated by two (2) foot switches, one (1) located on the officer's side and one (1) on the driver's side.
0740391	Sw, Siren Brake, Momentary Chrome Push Button, RS	A momentary chrome push button switch will be included in the right side dash panel to activate the siren brake.
0734625	Control, Warning Lt Intensity, Wln, Photocell, Prk Brk	SWITCH FOR WARNING LIGHTS INTENSITY When parking brake is set, and a Whelen®, Model LCPHOTO photocell installed on the interior forward cab dash as near to the windshield as practical, is activated due to diminished ambient light, the designated Whelen® warning lights on the cab and the warning lights on the body will transition to a low power intensity. In order for the activation of low power mode of the warning lights, the dash mounted Whelen® photocell must sense diminished ambient light (approx. 50 LUX), the battery switch, the ignition switch, the emergency master switch, must be on, and the parking brake set. The low power intensity mode will be reset when any of the above conditions are not met.
0740422	Lightbar, Wln, Freedom IV-Q, 72", RRWRRR____RRRWRR, Lw Int	FRONT ZONE UPPER WARNING LIGHTS There will be one (1) 72.00" Whelen Freedom IV LED lightbar mounted on the cab roof. The lightbar will include the following: - One (1) red flashing LED module in the driver's side end position. - One (1) red flashing LED module in the driver's side front corner position. - One (1) white flashing LED module in the driver's side first front position. - One (1) red flashing LED module in the driver's side second front position. - One (1) red flashing LED module in the driver's side third front position. - One (1) red flashing LED module in the driver's side fourth front position. - Open in the driver's side fifth front position. - Open in the driver's side sixth front position. - Open in the passenger's side sixth front position. - Open in the passenger's side fifth front position. - One (1) red flashing LED module in the passenger's side fourth front position. - One (1) red flashing LED module in the passenger's side third front position. - One (1) red flashing LED module in the passenger's side second front position. - One (1) white flashing LED module in the passenger's side first front position. - One (1) red flashing LED module in the passenger's side front corner position. - One (1) red flashing LED module in the passenger's side end position. There will be clear lenses included on the lightbar. The light bar will have the low intensity mode wires connected to the controlling circuit. There will be a switch in the cab on the switch panel to control this lightbar. The white LEDs will be disabled when the parking brake is applied. The six (6) red flashing LED modules in the front positions may be load managed when the parking brake is applied.
0745392	Lights, Front Zone, Wln M6** LED, in Common Bzl, Lw Int	FRONT ZONE LOWER LIGHTS There will be two (2) Whelen, Model M6**, flashing LED lights installed on the cab face above the headlights, in a common bezel with the directional lights. The driver's side front warning light to include red LEDs The passenger's side front warning light to include red LEDs The color of the lenses will be clear There will be a switch located in the cab on the switch panel to control the lights. Each light will have the low intensity mode wire connected to the controlling circuit.
0558676	Daytime Running Lights, Headlights, Vel/Imp, Enf/AXT-MUX, (Low Beam)	DAYTIME RUNNING LIGHTS (HEADLIGHTS) The low-beam headlights used as daytime running lights will be activated with the following measures: - Ignition switch is turned on - Parking brake is released These lights will be deactivated with any one of the following measures: - Headlight switch is turned on - High-beam flash is turned on - Parking brake is set
0653937	Flasher, Headlight Alternating	HEADLIGHT FLASHER The high beam headlights will flash alternately between the left and right side. There will be a switch installed in the cab on the switch panel to control the high beam flash. This switch will be live when the battery switch and the emergency master switches are on. The flashing will automatically cancel when the hi-beam headlight switch is activated or when the parking brake is set.

0740512	Lights, Side Zone Lower, Wln M6**, M6**, M6**, 6lts, Lw Int	SIDE ZONE LOWER LIGHTING LOW INTENSITY There will be six (6) Whelen®, Model M6**, 4.31" high x 6.75" long x 1.37" deep flashing LED warning lights with chrome trim installed per the following: Two (2) lights located, one (1) each side on the bumper extension. The driver's side, side front light to include red warning LEDs and the passenger's side, side front light to include red warning LEDs. Two (2) lights located, one (1) each side above the front wheels. The driver's side, side middle light to include red warning LEDs and the passenger's side, side middle light to include red warning LEDs. Two (2) lights located, one (1) each side located between the tandems. The driver's side, side rear light to include red warning LEDs and the passenger's side, side rear light to include red warning LEDs. The warning light lens color(s) to be clear. There will be a switch in the cab on the switch panel to control the lights. Each light will have the low intensity mode wire connected to the controlling circuit. Any flashing white lights will be disabled when the parking brake is set.
0822804	Lights, Side, Wln WION* LED, Recessed in Cab Steps, 4lts, Off Lw Int	SIDE WARNING LIGHTS There will be four (4) Whelen, Model WION* wide angle flashing LED warning lights with Whelen, Model IONK1B black bail mounts provided: One (1) recessed in the driver's side cab step on the front, vertical surface, below bottom of door. One (1) recessed in the driver's side crew cab step on the front, vertical surface, below bottom of door. One (1) recessed in the passenger's side crew cab on the front, vertical surface, below bottom of door. One (1) recessed in the passenger's side cab step on the front, vertical surface, below bottom of door. The color of the lights will be red. These lights will be activated with the side warning switch. These lights may be load managed when the parking brake is applied. Lights will be deactivated when the low intensity switch is activated.
0732229	Lights, Side, Wln WIONSM** LED, Trim Fet, Off Lw Int, 1st	SIDE WARNING LIGHTS There will be four (4) Whelen®, Model WIONSM**, 1.69" high x 5.94" long x 1.13" deep flashing LED warning light(s) with chrome trim located, centered in rub rail under LS2, LS4, RS2, RS4. The light(s) to include red LEDs with a clear lens. The light(s) will be activated with the side warning switch. Lights will be deactivated when the low intensity switch is activated.
0746425	Lights, Rear Zn Lwr, Wln M6**, For Tail Lt Housing, Lw Int	REAR ZONE LOWER LIGHTING There will be two (2) Whelen®, Model M6**, LED flashing warning lights located at the rear of the apparatus. The driver's side rear light to be red The passenger's side rear light to be red The lens color(s) to be clear. There will be a switch located in the cab on the switch panel to control the lights. The light(s) will have the low intensity mode wire connected to the controlling circuit.
0803250	Light, Rear Zone Up, Wln L31H*F Beacon, Red LED, DVI High, Lw Int	REAR/SIDE ZONE UPPER WARNING LIGHTS There will be two (2) Whelen®, Model L31H*F, LED warning beacons provided at the rear of the truck, located one (1) each side. The LEDs color of the lights will be red with both domes clear. There will be a switch located in the cab on the switch panel that controls the beacons when the emergency master and battery switch are on. The violet wire of each beacon will be connected to the low intensity control. When the low intensity control is activated, the beacons will go into DVI SingleFlash 75 Hi Intensity pattern.
0006551	Not Required, Lights, Rear Upper Zone Blocking	
0791501	Light, Traffic Directing, Wln TAL65, 36" Long LED, Aerials	TRAFFIC DIRECTING LIGHT There will be one (1) Whelen®, Model TAL65, 36.00" long x 2.87" high x 2.25" deep, amber LED traffic directing light installed at the rear of the apparatus. The Whelen, Model TACTL5, control head will be included with this installation. The controller will be energized when the battery switch is on. The auxiliary flash not activated.
0754854	Location, Traf Dir Lt, On Top of Body Below Turntable w/Box, Matr'l Feature	This traffic directing light will be mounted on top of the body below the turntable, inside a aluminum treadplate box at the rear of the apparatus.
0723755	Location, Traf Dir Lt Controller, Panel #13 in Center Console	The traffic directing light controller will be located within switch panel #13 on the center console.
0519934	Not Required, Brand, Hydraulic Tool System	

AERIAL GENERAL INFORMATION

It is the intent of these specifications to describe a mid-mounted telescoping, elevating platform. The unit will consist of a five (5) section, steel ladder with a self-leveling basket attached to the ladder fly section.

Operation on Grades

The aerial unit will be capable of operating safely, on any slope up to 10 degrees at full capacities. (Operation beyond this limit will be at the operator's discretion).

Construction Standards

The ladder will be constructed to meet all of the requirements as described in the current edition of applicable NFPA standards.

These capabilities will be established in an unsupported configuration.

All structural load supporting elements of the aerial device that are made of a ductile material will have a design stress of not more than 50 percent of the minimum yield strength of the material based on the combination of the live load and the dead load. This 2:1 structural safety factor meets the current NFPA standard.

All structural load supporting elements of the aerial device that are made of non-ductile material will have a design stress of not more than 20 percent of the minimum ultimate strength of the material, based on the combination of the rated capacity and the dead load. This 5:1 safety factor meets the current NFPA standard.

The aerial device will be capable of sustaining a static load one and one-half times its rated tip load capacity (live load) in every position in which the aerial device can be placed when the vehicle is on a firm level surface.

The aerial device will be capable of sustaining a static load one and one-third times its rated tip load capacity (live load) in every position the aerial device can be placed when the vehicle is on a slope of five degrees downward in the direction most likely to cause overturning.

With the aerial device out of the cradle in the in the fully extended position at zero degrees elevation, a test load will be applied in a horizontal direction normal to the centerline of the ladder. The turntable will not rotate and the ladder will not deflect beyond what the product specification allows.

All welding will be in compliance with the American Welding Society standards. All welding personnel will be certified, as qualified under AWS welding codes.

The aerial device will be capable of operating in either of the two (2) following conditions:

Conditions of high wind up to 35 mph

Conditions of icing, up to a coating of 0.25" over the entire aerial structure

All of the design criteria must be supported by the following test data:

Strain gage testing of the complete aerial device

The following criteria for materials are to be used in the design of the aerial device:

Materials are to be certified by the mill that manufactured the material

Material testing that is performed after the mill test will be for verification only and not with the intent of changing the classification.

Ladder Construction

The ladder will be comprised of five (5) sections and will extend to a nominal height, of 100' above the ground, as measured by NFPA recommendations. The ladder (handrails, baserails, trusses, k-braces and rungs) will be constructed of welded, high strength steel certified by the manufacturer as being a minimum of 100,000 lb per square inch of yield strength. All critical points will be reinforced, for extra rigidity, and to provide a high strength-to-weight ratio. Ladder rungs will be round and welded to each section in two (2) places with "K" bracing for torsional rigidity. A minimum of 70.25" of overlap between each of the aerial sections will be provided.

The inside width dimensions of the ladder will be:

Base Section:

56.12"

Lower Mid Section:

46.12"

Center Mid Section:

36.62"

Upper Mid Section:

28.12"

Fly Section:

22.12"

The height of the handrails above the centerline of the rungs will be:

Base Section:

40.72"

Lower Mid Section:

39.08"

Center Mid Section:

32.32"

Upper Mid Section:

29.02"

Fly Section:

26.37"

Vertical Height

The height of the unit will extend to no less than 100', as measured by a plumb line from the top surface of the basket handrail assembly to the ground, with the basket raised to a 77 degree angle.

Horizontal Reach

The rated horizontal reach will be 93'. The measurement of horizontal reach will be consistent with NFPA standards.

Mounting of Elevating Platform

The aerial device will be mid mounted, to a torque box, on the truck chassis.

Torque Box

A "torsion box" subframe will be installed between two sets of stabilizers. The torque box will be constructed of 100,000 lb per square inch yield steel with an integral ladder storage box. The torque box assembly will be capable of withstanding all torsional and horizontal loads when the

unit is on the stabilizers. The torque box will be bolted to the chassis frame rails using forty-eight 0.750" SAE grade 8 bolts with nuts.

Turntable

The turntable will be coated with a non-skid, chemical resistant material in the walking areas. The stepping surfaces will meet the skid-resistance requirements in the current NFPA standard.

The turntable will serve as a step for access to the ladder.

The turntable handrails will be a minimum 42.00" high and will not increase the overall travel height of the vehicle. The handrails will be constructed from 1.62" diameter extruded 6061-T6 aluminum with a slip resistant knurled surface. The handrails will be anodized to resist corrosion.

Elevation System

Two (2) double acting, lift cylinders will be utilized to provide smooth, precise elevation from 15 degrees below horizontal to 77 degrees above horizontal. The lift cylinder will be attached to each side of the base section. The lift cylinders will have a 7.50" internal diameter (bore), 3.50" diameter cylinder rod and a 53.89" stroke. The lift cylinder rod will be chrome plated, to provide smooth operation of the aerial and reduce seal wear. The lift cylinders will be equipped with integral holding valves located in the cylinder, to prevent the unit from descending should the charged lines be severed, at any point within the hydraulic system and to maintain the ladder in the bedded position during road travel. The integral holding valves will NOT be located in the transfer tubes.

The elevation system will be controlled by the microprocessor. The microprocessor will provide the following features:

Collision avoidance of the elevation system to prevent accidental body damage

Automatic deceleration when the aerial device is lowered into the cradle

Automatic deceleration at the end of stroke, in maximum raise and lower positions

Deceleration of the aerial device from 0 to -15 degrees

Extension/Retraction System

A hydraulically powered, extension and retraction system will be provided through dual hydraulic cylinders and wire ropes. The extension cylinder will have a 6.50" internal diameter (bore), 2.75" diameter rod and a 53.12" stroke. Each set will be capable of operating the ladder in the event of a failure, of the other. For safety, systems that use only a single extension/retraction system will not be acceptable. The extension cylinder rod will be chrome plated to provide smooth operation of the aerial device and reduce seal wear. The extension/retraction cylinders will be equipped, with integral holding valves, to prevent the unit from retracting should the charged line be severed, at any point within the hydraulic system. The integral holding valves will NOT be located in the transfer tubes.

Wire ropes and attaching systems used to extend and retract the fly sections will have a 5:1 safety factor based on the ultimate strength under all operating conditions. The factor of safety for the wire rope will remain above 2:1 during any extension or retraction stall. The minimum ratio of the diameter of wire rope used to the diameter of the sheave used will be 1:12. Wire ropes will be constructed of seven (7) strands over an inner wire core for increased flexibility. The wire rope will be galvanized to reduce corrosion.

The extension/retraction system will be controlled by the microprocessor. The microprocessor will provide the following features:

Automatic deceleration at the end of stroke, in maximum extend and retract positions

Controls the rate of retraction while flowing water

All sheaves and sheave pins will utilize greasable bronze bushings. Sheave pins will be polished stainless steel.

Rotation System

A 54.00" diameter, external tooth, monorace rotation bearing will be used for the rotation system and will provide 360 degree continuous rotation. The turntable will be bolted to the bearing using 30 SAE grade 8, 0.875" diameter bolts. To secure the bearing to the base support, 36 grade 8, 0.875" diameter bolts will be used. The turntable base and the torque box bearing plate will be machined to fit the bearing, thereby providing even distribution of forces. Two (2) hydraulically driven, planetary gear boxes, with drive speed reducer, will be used to provide infinite and minute rotation control, throughout the entire rotational travel. Each planetary gearbox has a torque rating of 130,000 lb per square inch. A spring applied, hydraulically released, disc type, swing brake will be furnished to provide positive braking of the turntable assembly. Provisions will be made for auxiliary operation of the rotation system should complete loss of normal hydraulic power occur.

The rotation system will be controlled by the microprocessor. The microprocessor will provide the following features:

Automatic deceleration as you near a cab or body collision zone

Envelope control of rotation system to prevent accidental body damage

Prevent the aerial from being rotated into the short-jacked side of the unit

Manual Override Controls

Manual override controls will be provided for all aerial and stabilizer functions.

Ladder Slide Mechanism

Wear pads will be used between the telescoping ladder sections, to reduce friction for smoother operation. Slide pads will also be used to control side play between the ladder sections.

Basket Leveling System

A basket leveling system will be provided and so designed, that the basket with it's rated load, can be supported and maintained level, relative to the turntable, regardless of the elevation or flexion of the ladder.

The leveling of the basket features a hydraulic cylinder system mounted between the ladder fly section and the basket with each side capable of supporting the load, while maintaining the basket level.

The hydraulic circuitry includes pressure operated counter balance valves, on the load side of the cylinders, to prevent the basket from tipping should the hydraulic lines be severed.

The microprocessor will control the level of the basket during bedding operations, preventing the basket from hitting the body deck when the truck is setup on unlevel ground.

Rotation Interlock

The microprocessor will be used to prevent the rotation of the aerial device, to the side in which the stabilizers have not been fully deployed (short-jacked). The microprocessor will allow full and unrestricted use of the aerial, in the 180 degree area, on the side(s) where the stabilizers have been fully deployed. The system will also have a manual override to comply with NFPA.

Load Capacities

The following load capacities will be established with the stabilizers at full horizontal extension

and placed in the down position to level the truck and to relieve the weight from the tires and axles. Capacities will be based upon full extension and 360 degree rotation.

A load chart, visible at the operator's station, will be provided. The load chart will show the recommended safe load at any condition of the aerial device's elevation and extension.

35 MPH Wind Conditions/Dry

Degree of Elevation

-15 to 9
10 to 19
20 to 29
30 to 39
40 to 49
50 to 59
60 to 77

Basket

1000
1000
1000
1000
1000
1000
1000

Fly

-

-

-

-

250

250

500

Upper Mid

-

-

-

-

250

250

500

Center Mid

-

-

250

250

250

500

500

Lower Mid

-

-

250

250

500

500

500

Base

-

250

500

500

500

500

750

Water Tower Operation

The following capacities will be based upon continuous 360 degree rotation and full extension.

35 MPH Wind Conditions/Water Charged

Degree of Elevation

-15 to 9
10 to 19
20 to 29
30 to 39
40 to 49
50 to 59
60 to 77

Basket

500

500

500

500

500

500

500

Fly

-

-

-

-

-

-

250

		Upper Mid - - - - - 250 250 Center Mid - - - - 250 250 500 Lower Mid - - - 250 250 500 500 Base - - 250 250 250 500 500
		Elevation -15 to 77 Degrees The aerial device will be able to maintain the above load capacities while flowing up to 1500 GPM and a nozzle position of 0 to 90 degrees to either side of the ladder centerline, and as far above and below horizontal to the platform as nozzle design allows. The aerial device will be able to maintain the above load capacities while flowing up to 2000 GPM and a nozzle position of 0 to 45 degrees to either side of the ladder centerline, and 30 degrees above horizontal and as far below horizontal to the platform as nozzle design allows. Reduced loads in the basket can be redistributed in 250 lb Increments to the fly, mid, or base as needed.
		Ladder Cradle Interlock System A ladder cradle interlock system will be provided through the microprocessor to prevent the lifting of the aerial device from the nested position until the operator places all the stabilizers in a load supporting configuration. A switch will be installed at the boom support to prevent operation of the stabilizers once the aerial has been elevated from the nested position.
0680821	Boom Panel, Pair	AERIAL BOOM PANEL There will be one boom panel provided on each side of the aerial ladder base section. The boom panel will be painted #90 red. The boom panels will be designed so no mounting bolts are in the face of the panel. This will keep the lettering surface free of holes.
0526890	Not Required, Indicator, Extension	
0688232	Rung Covers, Aerial Device	AERIAL DEVICE RUNG COVERS Each rung will be covered with a secure, heavy-duty, fiberglass pultrusion that incorporates an aggressive, no-slip coating. The rung covers will be glued to each rung and will be easily replaceable should the rung cover become damaged. The center portion of each rung cover will be black and the outside 2.00" edge at each side will be safety yellow. Under no circumstances will the rung covers be fastened to the rungs using screws or rivets. The rung covers will have a 10-year, limited warranty.
0728982	Box, Saw Storage, w/Cover, Base Section Above Boom Panel, 100AAT, Door Sw	SAW STORAGE BOX There will be a total of two (2) storage box(es) provided at the base section of the aerial ladder, one (1) on each side of the aerial device. The box(es) will be painted to match the aerial device and located at the tip of the base section. The box(es) will have a hinged cover with D-handle latch and gas struts to secure the saw. The cover will have the same finish as the box. The cover will be tied in to the open door indicator circuitry when in the open position. The box will have no louvers. The maximum capacity of each box will be 25 lb.
0678539	Brackets Only, Roof/Wall Ladder, Aerial Fly Section	LADDER STORAGE MOUNTING BRACKETS There will be brackets that are painted to match the aerial device provided near the end of the fly section of the aerial for mounting a roof ladder. The mounting brackets will accommodate a 14' Duo-Safety 875-DR roof/wall ladder as determined by the type of aerial device and the available space.

0623645	Aerial Stability Test, Maximum Tip Options	STABILITY TEST An aerial stability test will be run on the apparatus using the maximum weight allowance for tip options.
0766887	Brackets, Stokes Storage, Base Section Above Boom Panel, 100AAT	STOKES STORAGE BRACKETS There will be one (1) aluminum bracket(s) at the base section of the aerial ladder on the right side of the aerial device while viewed from the turntable. The brackets will be located above the aerial boom panel. The brackets will be painted to match the aerial device and include locking pins to secure the basket.
0823011	Basket, 100AAT	BASKET STRUCTURE The complete basket structure will be constructed of welded high strength steel certified by the manufacturer to have a minimum of 100,000 lb per square inch yield strength on all structural members. The aerial basket will be fully tested and independent third party certified. The interior flooring and exterior front flooring (decking) of the basket will be multi-piece Morton Cass material, preventing the accumulation of water on the standing surface. The surface area of the interior and exterior basket flooring will be approximately 21.1 square feet. The stepping surfaces will meet the skid-resistance requirements of current edition of applicable NFPA standards. The exterior basket flooring used for transferring in and out of the basket will be at the same level as the interior basket floor and will be constructed of aluminum treadplate. The front and side flooring will be approximately 8.00" deep. The front corners of the exterior basket floor will be mitered at 45 degrees to allow the basket to be maneuvered closer to buildings when approaching at an angle. Four (4) stainless steel pompier belt safety loops will be attached to the inside of the basket. Two (2) lifting eyes will be provided on the bottom side of the basket support structure. Each lifting eye will be rated for 500lb. Four (4) rubber bumpers are provided on the bottom side of the basket structure for damage protection when setting it down on a surface. The basket interior will be illuminated as required per the current edition of applicable NFPA standards. Electrical sub-components will be mounted under the basket in a enclosed area providing protection from heat exposure while allowing for easy servicing and maintaining an unobstructed basket interior. BASKET SIDES The sides of the basket will be of tubular steel construction and aluminum sheet skin, and along with the basket doors, will form a continuous 42.00" high wall around the basket. PLATFORM ENTRANCES/EXITS Two (2) swing-in, spring-loaded, self-closing doors will be of steel frame construction with an aluminum sheet skin and will be provided on the 45 degree angles at the front of the platform. A paddle style door latch will allow the basket doors to be opened from the outside by applying pressure to the paddle with the hand. The rear of the platform will be equipped with a vertical self-closing gate for transfer to and from the platform's ladder device. ACCESSORY MOUNTING RECEPTACLES Universal accessory mounting receptacles will be permanently affixed on the left side of the basket to receive options such as the rescue basket holders, rappelling arms, roof ladder brackets, winch, etc. Complete interchangeability will be required without modification to the basket. UNDER BASKET SENSOR A single ultrasonic sensor will be installed under the center, rear area of the basket. It will assist the operator by automatically slowing the basket as it approaches the ground, and it will stop it approximately 8.00" above the ground. There is only one (1) sensor, so the ground is only detected in the location directly below the sensor, not the full area under the basket. The operator must still use caution and be aware of their surroundings at all times. The system will be enabled during aerial power up. A momentary switch in the basket and at the turntable will disable or re-enable the system at any time.
0803225	Lights, Turntable Walkway, P25, OSS, LED, 100AAT	LIGHTS FOR TURNTABLE WALKWAY There will be On Scene Model 73006-WHW 6.00" long white LED lights and P25 white LED lights with chrome housing provided at the aerial turntable. The lights will be located to illuminate the entire walking surface of the turntable including the area around the turntable console. These lights will be activated by the aerial master switch.
0767535	Light, Turntable Console, TecNiq E-10, LED	TURNTABLE CONSOLE LIGHTING There will be one (1), TecNiq Model E10, white LED light mounted in the turntable console cover to illuminate the controls located on both the upper and lower portion of the turntable control station. These lights will be activated by the aerial master switch.
0732762	Basket Heat Shields, 100AAT	BASKET HEAT SHIELDS A heat reflective shield constructed of 0.063 aluminum will be provided on the front, sides, bottom, and access doors of the basket. The front, side and access door heat shields will be painted to match the aerial basket. The heat shields on the bottom of the basket will be easily removable for ease of servicing components located under the basket. These heat shields will be provided with a non-glare finish.
0814210	Control Stations, 100AAT, CL714	INFORMATION CENTER There will be an information center provided. The information center will operate in temperatures from -40 to 158 degrees Fahrenheit. The information center will employ a Linux operating system

and a 7.00" (diagonal measurement) LCD display. The LCD will have a 1000 nits rated color display. The LCD will be daylight visible. The LCD display will be encased in an ABS, grey plastic housing with a Pierce decal. There will be five (5), weather-resistant user interface buttons provided. The LCD display can be changed to an optional single foreign language.

Operation

The information center will be designed for easy operation in everyday use. There will be a page button to cycle from one screen to the next screen in a rotating fashion. A video button will allow an NTSC camera signal into the information center to be displayed on the LCD. If any button is pressed while viewing a video feed, the information center will return to the vehicle information screens. There will be a menu button to provide access to maintenance, setup, and diagnostic screens. All other button labels will be specific to the information being viewed.

General Screen Design

Where possible, background colors will be used to provide vehicle information *At A Glance*. If the information provided on a screen is within acceptable limits, a green background color will be used. If the information provided on a screen is not within acceptable limits, an amber background color will indicate a caution condition and a red background color will indicate a warning condition.

Every screen in the information center will include the aerial tip temperature, the time (12- or 24-hour mode) and a text Alert Center. The time will be synchronized between all Command Zone color displays located on the vehicle. The Alert Center will display text messages for audible alarms. The text messages will identify any items causing the audible alarm to sound. If more than one (1) audible alarm is activated, the text message for each alarm will cycle every second until the problems have been resolved. The background for the Alert Center will change to indicate the severity of the warning message. Amber will indicate a caution condition and red will indicate a warning condition. If a warning and a caution condition occur simultaneously, the red background color will be shown for all Alert Center messages.

A label will be provided for each button. The label will indicate the function for each active button for each screen. If the button is not utilized on specific screens, it will have a button label with no text.

Symbols will accurately depict the aerial device type the information pertains to such as rear mount ladder, rear mount platform, mid-mount ladder or mid-mount platform.

Page Screens

The Information center will include the following pages:

The Aerial Main and Load Chart page will indicate the following information:

Rungs Aligned and Rungs Not Aligned will be indicated with text and respective green or red colored ladder symbols.

Ladder Elevation will be indicated via a fire apparatus vehicle with ladder symbol with the degree of elevation indicated between the vehicle and ladder.

Water Flow (if applicable) will be indicated via a water nozzle symbol and text indicating flow / time.

Breathing Air Levels will be indicated via an air bottle symbol and text indicating the percent (%) of air remaining. A green bar graphs shown inside the bottle will indicate oxygen levels above 20 percent. A red bar graph will indicate oxygen levels at or below 20 percent. When oxygen levels are at or below 10 percent the red bar graph will flash.

The Aerial Load Chart will indicate the load limit on each section of the ladder based on actual ladder position and water flow (if applicable).

At A Glance color features will be utilized on this screen. Caution type conditions will be indicated via a yellow background. Warning type conditions will be indicated via a red background.

Conditions operating within acceptable limits will be indicated via a green background.

The Aerial Reach and Hydraulic Systems page will indicate the following information:

Aerial Hydraulic Oil Temperature will be indicated with symbol and text. *At a glance* features will be utilized.

Aerial Hydraulic Oil Pressure will be indicated with a symbol and text. *At a glance* features will be utilized.

The following calculations will be indicated on a representative vehicle symbol:

Aerial Device Extension length.

Aerial Device Height indicating the height of the aerial device tip from the ground.

Aerial Device Reach indicating the horizontal distance the aerial reaches from the turntable.

Aerial Device Angle indicating the angle from the vehicle which the device is at.

At A Glance color features will be utilized on this screen. Caution type conditions will be indicated via a yellow background. Warning type conditions will be indicated via a red background.

Conditions operating within acceptable limits will be indicated via a green background.

The Level Vehicle page will indicate the following information:

The grade of the vehicle will be indicated via a fire apparatus vehicle symbol with the degree of grade shown in text format. The symbol will tilt dependent on the vehicle grade.

The slope of the vehicle will be indicated via a fire apparatus vehicle symbol with the degree of slope shown in text format. The symbol will tilt dependent on the vehicle slope.

Outriggers status will be indicated via a colored symbol for each outrigger present. Each outrigger status will be defined as one of the following:

Outrigger stowed indicated with a silver pan located close to the vehicle

Outrigger fully extended indicated with a fully deployed green outrigger

Outrigger short-jacked indicated by a yellow outrigger partially deployed

Outrigger not set indicated by a red outrigger that is not set on the ground

A text box located on the vehicle symbol will be utilized to identify the overall status of the outrigger leveling system. The following status will be indicated in the text box:

Deployed status will indicate all outriggers are properly set on the ground at full extension

Shortjacked status will indicate one or more outriggers are set on the ground but not fully extended.

Not Set status will indicate one or more outriggers is not properly set on the ground.

Stowed status will indicate all outriggers are stowed for vehicle travel.

A bedding assist alert will indicate that the aerial device is being aligned by the Command Zone system as the operator lowers the aerial device into the cradle with the joystick.

At A Glance color features will be utilized on this screen. Caution type conditions will be indicated via a yellow background. Warning type conditions will be indicated via a red background.

Conditions operating within acceptable limits will be indicated via a green background.

Menu Screens

The following screens will be available through the Menu button:

The View System Information screen will display aerial device hours, aerial PTO hours, ladder

aligned for stowing, aerial rotation angle, total water flow (if applicable), and aerial waterway valve status (if applicable).
 The Set Display Brightness screen will allow brightness increase and decrease and include a default setting button.
 The Configure Video Mode screen will allow setting of video contrast, video color and video tint.
 The Set Startup screen allows setting of the screen that will be active at vehicle power-up.
 The Set Date and Time screen has a 12- or 24-hour format, and allows setting of the time and date.
 The View Active Alarms screen shows a list of all active alarms including the date and time of each alarm occurrence and shows all alarms that are silenced.
 The System Diagnostics screen allows the user to view system status for each module and it's respective inputs and outputs. Viewable data will include the module type and ID number; the module version; and module diagnostics information including input or output number, the circuit number connected to that input or output, the circuit name (item connected to the circuit), status of the input or output, and other module diagnostic information.
 Aerial calibrations screen indicates items that may be calibrated by the user and instructions to follow for proper calibration of the aerial device.
 Button functions and button labels may change with each screen.

LOWER CONTROL STATION

A lower control station with pendant control will be located at the rear of the apparatus in an easily accessible area. The controls and indication labels will be illuminated for nighttime operation. The following items will be furnished at the lower control station and will be clearly identified and conveniently located for ease of operation and viewing:

- Level assist switch
- Override switch to override microprocessor
- Emergency power unit switch

AERIAL DEVICE CONTROL STATIONS

There will be two (2) aerial device control stations, one (1) will be referred to as the basket control station, and the other as the turntable control station. All elevation, extension, and rotation controls will operate from both of these locations. The controls will permit the operator to regulate the speed of the aerial functions, within the safe limits as determined by the manufacturer and NFPA standards. The controls will be clearly marked and illuminated for night time operation. Each control will be equipped with an operator presence, preventing accidental activation.

TURNTABLE CONTROL STATION

The turntable control station will be located on the right side of the turntable so the operator may easily observe the basket while operating the controls. A console cover will be provided at the turntable control station. The controls will be so designed to allow the turntable control station to immediately override the basket controls even if the ladder is being operated by the basket controls.

The following items will also be provided at the turntable control station and be clearly identified and illuminated for nighttime operation and conveniently located for ease of operation and viewing:

- Three (3) separate controls for raise/lower, extend/retract, and left/right rotation
- Intercom controls
- Tip tracking light switch
- Emergency power unit switch
- Operator's load chart
- Two (2) position switch for selecting aerial operational speed
- Aerial monitor switches

BASKET CONTROL STATION

The basket control station will be located at the front, center of the platform basket. The following items will also be provided at the basket control station and be clearly identified and illuminated for nighttime operation and conveniently located for ease of operation and viewing:

- Three (3) separate controls for raise/lower, extend/retract, and left/right rotation
- Intercom controls
- Tip tracking light switch
- Basket leveling switches
- Operator's load chart
- Aerial monitor switches

HIGH IDLE

The high idle will be controlled by the microprocessor. The microprocessor will automatically adjust the engine rpm, to compensate for the amount of load placed upon the system. The system will include a safety device that allows activation of the high idle, only when the parking brake is set and the transmission is placed in neutral.

0815152

Lights, Basket Interior, 100AAT

INTERIOR BASKET ILLUMINATION

There will be weather resistant lights with white LEDs provided to illuminate the interior of the aerial basket control console and stepping surfaces to NFPA requirements.
 The lights will be activated when the battery switch is on, and the aerial master switch is on.

STABILIZERS

The vehicle will come equipped with a stabilization system consisting of six (6) hydraulically operated stabilizers. The middle two (2) will be out and down style, the front and rear two (2) will be down only. This system will meet or exceed all requirements of the NFPA specifications related to stabilization and setup on sloped surfaces.

The stabilizer/leveling jacks will have a maximum spread of 18' measured from the centerline of the jack footpads when the beams are fully extended. The beams will be 6.81" wide x 13.00" high with 1.00" thick top and bottom plates and 1/2" thick sides of 100,000-PSI minimum yield strength steel. The cylinders will have pilot-operated check valves with thermal relief designed to ensure that the beams will not drift out of the stowed position during travel. Wear pads will guide the stabilizers.

The horizontal extension cylinders will be totally enclosed within the beams and will incorporate telescoping hydraulic tubing to supply the jack cylinder hydraulic power. Stabilizer hydraulic hoses will remain stationary during operation of the stabilizers to prevent hose wear and potential failure. The cylinders will be equipped with decelerators to reduce the speed of extension and retraction when the beams are near the fully retracted and extended positions. The stabilizer extension hydraulic cylinders will have the following dimensions: 2.25" bore, 1.38" rod, and 62.25" stroke.

The front vertical jack cylinders will be capable of 15.00" ground penetration. The middle and rear vertical jack cylinders will be capable of 18.00" ground penetration. The cylinders will be supplied with pilot operated check valves on each jack cylinder to hold the cylinder in the stowed or working position, should a charged line be severed at any point in the hydraulic system. For safety, the integral holding valves will be located in the cylinder base, NOT in the transfer tube. Vertical jack cylinder rods will be fully enclosed by a telescoping inner box to protect the cylinder rods from damage. The stabilizer jack hydraulic cylinders will have the following dimensions: 4.25" bore, 3.00" rod, and 34.88" stroke.

The middle and rear stabilizer jack will have a pan that will be a maximum of 14.00" wide so as to allow the extension of the stabilizer between parked cars or other obstacles. This pan will serve as a protective guard and a mounting surface for warning lights. The top, forward, and rear edges will be flanged back 90 degrees for added strength. The front stabilizers will be designed for easy cab tilt.

STABILIZER PADS

The stabilizer footpad will include an integrated stabilizer pad. The footpad will be attached to the jack cylinder rod by means of a machined ball at the end of the jack cylinder rod which mates to a socket machined into the footpad.

STABILIZER CONTROLS

A portable stabilizer control pendant will be provided. The control pendant will be weatherproof and oil resistant. Each function and indicator light will be labeled on a mylar lexan panel. The control pendant can be taken as far away as 15' from the vehicle with an attached coil cable.

The stabilizer control pendant will include the following:

One (1) green power indicator light for stabilizer control that will be illuminated when the Stabilizer Power Enable switch has been activated. This will be interlocked such that the aerial master must be activated, the ladder is in the cradle, or the Global Override at the rear of the apparatus is activated.

Two (2) electric toggle switches for stabilizers: each toggle switch will control the extend/retract (middle only) and raise/lower (front/middle/rear) of its respective stabilizer to allow vehicle set up in restricted areas and/or on uneven surfaces.

Level assist switch: The stabilizer control system will incorporate a computerized leveling system to enhance the stabilizer set up. The computerized system will ensure full stabilizer extension, proper jack penetration, and will level the vehicle within eight tenths of a degree of level for safe operation of the aerial device.

Stow assist switch: The stabilizer control system will incorporate a computerized system to move all six (6) stabilizer shoes to the full raised position while this switch is held.

Tilt assist toggle switch: The stabilizer control system will incorporate a computerized system to tilt the chassis to five (5) degrees for enhanced side angle deployment of the aerial device.

One (1) electric push button switch for the engaging the emergency power unit.

One (1) red "stabilizer not stowed" indicator light: this light will illuminate when the stabilizers are not in the fully stowed position.

Two (2) fully extended beams green indicator lights: these lights will be illuminated when each of the respective stabilizer beams are fully extended.

Six (6) firm on ground green indicator lights: each light will be illuminated when its respective stabilizer shoe is in the load supporting condition.

Each toggle switch will activate the engine fast idle automatically.

Manual override will be supplied for each stabilizer control valve.

A stabilizer deployment audible warning alarm will be provided and activated by the stabilizer movement.

A "Stabilizers Not Stowed" indicator will be provided in the driver's compartment. It will illuminate automatically whenever the stabilizers are not fully stowed to prevent damage to the apparatus if moved. The stabilizer system will also be wired to the "Do Not Move Indicator Light", which will flash whenever the apparatus parking brake is not fully engaged and the stabilizers are not fully stowed.

CRADLE INTERLOCK SYSTEM

A cradle interlock system will be provided, to prevent the lifting of the aerial from the nested position, until the operator has positioned all the stabilizers in a load supporting configuration. A switch will be installed at the cradle, to prevent operation of the stabilizers once the aerial has been elevated from the nested position.

STABILIZER PAN AND TRIM MATERIAL

The aerial stabilizer pans will be stainless steel, painted to match the lower body color and the aerial stabilizer trim will be painted to match lower body color.

0746173	Door, Stabilizer Control Box, Aerial MUX, 100AAT	STABILIZER CONTROL BOX DOOR A vertically hinged smooth aluminum door will be provided over the stabilizer control box. The door will be hinged along the inboard edge and provided with a Southco C2 black powder coated raised trigger latch.
0615058	Stabilizer Placement, Cameras w/Command Zone Color Display, 1 Set	STABILIZER PLACEMENT There will be two (2) cameras provided and installed on the body, one (1) directly above each stabilizer. The cameras will be activated with a switch in the cab and will provide a picture to specify the fully extended stabilizer position allowing the driver the ability to position the vehicle with the proper clearance for stabilizer deployment.
0771218	Hydraulic System, 100AAT	HYDRAULIC SYSTEM All hose assemblies will be assembled and crimped by the hose manufacturers certified technician. All manufacturing employees responsible for the installation of hydraulic components will be properly trained. Training will include: proper handling, installation, torque requirements, cleanliness and quality control procedures for hydraulic components. Hoses used in the aerial hydraulic system will be of a premium quality hose with a high abrasion resistant cover. All pressure hoses will have a working pressure of 4000 psi and a burst pressure rating of 16,000 psi. All hydraulic fittings and tubing will be plated or constructed of 304 stainless steel to minimize corrosion. The fitting will use an O-ring seal where possible to minimize hydraulic leaks. An interlock will be provided that prevents activation of the hydraulic pump until the transmission is placed in neutral and the parking brake is set as outlined in the current NFPA standard. The system will meet the performance requirement of the current NFPA standard, which requires adequate cooling less than 2.5 hours of operations. All hydraulic components that are non-sealing whose failure could result in the movement of the aerial will comply with current NFPA standards and have burst strength of 4:1. Dynamic sealing components whose failure could cause aerial movement will have a margin of 2:1 on maximum operating pressure per the current NFPA standard. All hydraulic hoses, tubes, and connections will have a minimum burst strength of 3:1 per the current NFPA standard. A chassis mounted positive displacement piston pump for consistent pressure and rapid responses will supply hydraulic power for all aerial operations. The positive displacement pump will provide 3,000psi. The hydraulic pump will be solely dedicated to aerial operations. Each aerial will be evaluated as to the region and climate where it will be used to determine the optimum viscosity and proper oil grade. Oil viscosity will be based on an optimum range of 80 to 1000 SUS during normal aerial use. Before shipment of the unit, an oil sample will be taken and analyzed to confirm the oil is within the allowable ISO grade tolerance. The aerial hydraulic system will have a minimum oil cleanliness level of ISO 18/15/13 based on the ISO 4406:1999 cleanliness standard. Each customer will receive a certificate of actual cleanliness test results and an explanation of the rating system. Oil samples can be taken from the hydraulic manifold GP1 port which is also used for verifying system pressure. Ball valves will be provided in the hydraulic suction lines to permit component servicing without draining the oil reservoir. The aerial will incorporate the use of trombone steel tubes inside the stabilizer beams to eliminate hydraulic hose wear and leaks. Hydraulic power to the ladder will be transferred from the pedestal by a hydraulic swivel. The system hydraulic pressure will be displayed on the turntable display. The hydraulic system will be additionally protected from excessive pressure by a secondary pressure relief valve set at 3,500 psi. In the event the main hydraulic pump compensator malfunctions, the secondary relief will prevent system damage. HYDRAULIC CYLINDERS All cylinders used on the aerial device will be produced by a manufacturer that specializes in the manufacture of hydraulic cylinders. Each cylinder will include integral safety holding cartridges. No manifold or transfer tube mounted cartridge will be acceptable. Each cylinder will be designed to a minimum safety factor of 4:1 to failure. All safety holding cartridges will be installed at the cylinder manufacturer, in a controlled clean environment to avoid possible contamination and or failure. POWER TAKEOFF/HYDRAULIC PUMP The apparatus will be equipped with a power takeoff driven by the chassis transmission and actuated by an electric shift, located inside the cab. The power takeoff which drives the hydraulic pump will meet all the requirements for the aerial unit operations. An amber indicator light will be installed on the cab instrument panel to notify the operator that the power takeoff is engaged. An interlock will be provided that allows operation of aerial power only after the chassis spring brake has been set and the chassis transmission has either been placed in the neutral position or drive position after the driveline has been disengaged from the rear axle. The hydraulic system will be supplied by a variable displacement load and pressure compensating piston pump. The pump will meet the demands of all three simultaneous aerial functions. The pump will provide proper flow for single aerial function with the engine at idle speed. A switch will be provided on the control console to increase the engine speed for multiple function operation. EMERGENCY PUMP The hydraulic system will be designed with an auxiliary power unit meeting the guidelines of the current NFPA standard. The aerial will be equipped with an emergency hydraulic pump, electrically driven from the truck batteries. The pump will be capable of running for 30 minutes for limited aerial functions to stow the unit in case of a main pump or truck system failure. A momentary switch will be located at the stabilizer and aerial control locations to activate the emergency pump. AERIAL CONTROL VALVE

The aerial hydraulic control valve will be designed with special spool flows, limiting the oil flow for the designed function speed. The valve will be electrically controlled and be located below the swivel and integrated with the stabilizer control manifold. The handles will be oriented outward and will be spaced 1.80" apart. The valve spools will be designed to bleed off downstream pressure, in the neutral position and allow proper sealing of any cylinder holding cartridge.

OIL RESERVOIR

The oil reservoir will have a minimum capacity of 39 gallons. The oil fill location will be easily accessible and be labeled "Hydraulic Oil Only" and also indicate the grade of oil that is installed in the reservoir. A drain port will be provided.

Two suction ports will be provided, one for the main hydraulic pump and one for the emergency pump. The emergency suction port will be raised slightly off the bottom of the reservoir.

Magnetic filter will be installed in line with the return hose.

A float type sending unit in the reservoir will provide an indication of oil level on an electronic display. A temperature sending unit in the reservoir will provide indication of the oil temperature on an electronic display.

The hydraulic oil reservoir will be labeled per the current edition of NFPA standard.

RETURN FILTER

The low pressure oil return filter will be remote mounted in the return line and designed to prevent oil loss during filter change. A 50 psi bypass will be included to protect the element and hydraulic system during lower than normal operating temperatures. The system will incorporate the following filter to provide dependable service:

return filter: beta 1000 at 6 micron

0767932

Swivels, w/Encoder, 36, 100AAT

HYDRAULIC SWIVEL

The aerial ladder will be equipped with a three (3) port, high pressure hydraulic swivel which will connect the hydraulic lines from the hydraulic pump and reservoir through the rotation point to the aerial control bank. The hydraulic swivel will allow for 360 degree continuous rotation of the aerial.

ELECTRIC SWIVEL

The ladder will be equipped with an electric swivel to allow 360 degrees rotation of the aerial while connecting all electrical circuits through the rotation point. A minimum of 36 collector rings will be provided that are capable of supplying 20 amp continuous service. All collector rings will be enclosed and protected with desiccant plugs against condensation and corrosion. No oil or silicone will be used.

WATER SWIVEL

Water will be transferred to the aerial waterway by means of a 5.00" internal diameter waterway, through the swivel, permitting 360 degree continuous rotation.

13-BIT ABSOLUTE ENCODER

The aerial ladder will be equipped with a 13-Bit Absolute Encoder which provides 8192 counts per shaft turn for position and direction reference.

The 13-Bit Absolute Encoder will provide a unique binary word to reference each position and direction for all 360 degrees of rotation.

If the power is interrupted for any reason, the 13-Bit Absolute Encoder will allow power to be returned to the system without having to re-zero the settings.

The 13-Bit Absolute Encoder will be an integral part of a micro-processor based control system.

0767931	Electrical System, 100AAT	ELECTRICAL SYSTEM The aerial device will utilize a microprocessor-based control system. The system will consist of the following components: Control System Modules Each of the control system modules will be configured as follows: Sealed to a NEMA 4X rating Operating range from -40 degrees Fahrenheit to 156 degrees Fahrenheit (-40 degrees Celsius to 70 degrees Celsius) Communicate using J1939 data link Two (2) diagnostic LED lights One (1) green light that illuminates when module has power (B+) and ground One (1) red light that flashes to indicate the module is capable of communicating via the data link Up to 16 diagnostic LEDs on each module Ground matrix identification system The following control system modules will be used: Control Module Main controller for the system USB connection allows for computer diagnostics Power Module Built-in fault sensing Eight (8) digital outputs Pulse width modulating (PWM) capable 10A continuous per output Circuit protection based on actual current draw (not affected by heat) Current Control Module Built-in fault sensing Three (3) analog inputs Eight (8) digital outputs Pulse width modulating (PWM) capable 3A continuous per output Closed Loop System Circuit protection based on actual current draw (not affected by heat) Input Module 16 software selectable (digital or analog) inputs Output Module 16 digital outputs Input/Output Module Eight (8) software selectable (digital or analog) inputs Eight (8) digital outputs Valve Module 36 digital inputs 36 digital outputs
0783178	Lights, Tip, Wln MPB* LED, Front of Basket 2lts	TIP LIGHT There will be two (2) Whelen® Model MPB*, 4,100 lumens 12 volt DC LED lights with adjustable mounts installed on the front of the basket. The painted parts of this light assembly to be white. The lights will be controlled with the tracking lights.
0740163	Lights, Tracking, Wln MPB* LED, 100AAT 2lts, Swt Feature	TRACKING LIGHTS There will be two (2) Whelen® MPB*, 5,090 lumens 12 volt DC LED lights with bail bracket mounts installed near the tip of the base section of the aerial device. The lights are installed at the tip so the overall width of the apparatus is not affected. The lights will be mounted below the top edge of the aerial device so the overall height of the apparatus is not affected. One (1) located on the left side with spot optics One (1) located on the right side with spot optics The painted parts of this light assembly to be white. Power to the lights will be controlled from platform/tip and turntable.
0743431	Basket Access, w/ Flip Down Step, Lift Bar Latch, 100AAT	BASKET ACCESS Access to the basket will be provided by a pull-out, swing-down climbing ladder. The 2.25" deep climbing ladder surfaces will be constructed with Traction Tread®. The bottom step will be a flip-down, stirrup step. The access ladder will be recessed into the angled corners of the rear body on each side. Hand holds will be provided in each side of the ladder. The step well finish will be aluminum treadplate. All stepping surfaces will have a height not greater than 14.00" from top surface to top surface. The bottom stepping height will not exceed 24.00" from the ground to the top of the stepping surface at any time. A curved handrail will be provided on top of the body on each side and a straight handrail will be provided at the top, interior of each side step well assembly. All handrails will be knurled aluminum.
0894586	Lights, Step (4), P25, Ladder Style Access Steps, Both Sides	STEP LIGHTS There will be two (2) white LED step lights with chrome housing provided for each set of aerial basket access steps. In order to ensure exceptional illumination, each light will provide a minimum of 25 foot-candles (fc) covering an entire 15" x 15" square placed ten (10) inches below the light and a minimum of 1.5 fc covering an entire 30" x 30" square at the same ten (10) inch distance below the light. The step lights will be actuated with aerial master switch. These lights will meet NFPA requirements for step lighting.

0749120	Lighting, Rung, LED, TecNiq, 5 Section, Base, Low, Cent, Upper, Fly, 100AAT	LIGHTING ON AERIAL DEVICE There will be TecNiq, Model D02, LED rung lighting provided on both sides of the aerial ladder base, lower mid, middle, upper mid and fly sections. The lighting will be located adjacent to the ladder rungs along the lower rail of the ladder sections and will run the length of the ladder section. The color of the sections will be per the following: The base section of the ladder to be red. The lower mid section of the ladder to be red. The mid section of the ladder to be red. The upper mid section of the ladder to be red. The fly section of the ladder, excluding the egress, to be red. The LED rung lighting will be activated when the aerial is raised from the cradle. The lights may be load managed when the parking brake is applied.
0888079	Lights, Stabilizer Warn (2) Sets, Wln M6**, Lw Int	STABILIZER WARNING LIGHTS There will be our (4) Whelen®, Model M6*C, 4.31" high x 6.75" wide x 1.37" deep flashing LED warning lights with chrome trim and the warning light lens color(s) to be clear installed per the following: One (1) light installed on the left side front stabilizer pan. The left side front stabilizer pan warning light to include red LEDs. One (1) light installed on the left side rear stabilizer pan. The left side rear stabilizer pan warning light to include red LEDs. One (1) light installed on the right side rear stabilizer pan. The right side rear stabilizer pan warning light to include red LEDs. One (1) light installed on the right side front stabilizer pan. The right side front stabilizer pan warning light to include red LEDs. The lights will be activated by the same switch as the side warning lights or the aerial master switch. Each light will have the low intensity mode wire connected to the controlling circuit.
0068703	Lights, Grote Supernova LED, Stabilizer Beam, (1) Set	STABILIZER BEAM WARNING LIGHTS Two (2) 4.00" diameter red LED flashing lights will be mounted on each stabilizer, one (1) facing forward and one (1) facing rearward. The lights will be Grote Supernova 40 series LED lights. The lights will be recessed in the horizontal beam of the stabilizer. These warning lights will be activated with the aerial master switch.
0762387	Lights, Stabilizer Scene, (3) sets, Amdor AY-LB-12HW012, 100AAT	STABILIZER SCENE LIGHTS There will be one (1) Amdor®, Model AY-LB-12HW012, 190 lumen, 12" long, white LED strip light installed under each stabilizer beam to illuminate the surrounding area. A total of six (6) lights will be installed. The lights will be activated by the aerial master switch.
0764091	DC Power To Tip, 12.88 Amp, 100AAT	DC POWER CABLE TO TIP There will be a cable installed in the aerial device to provide 12.88 amps @ 12 volts DC to the tip of the aerial device.
0759577	Light, Wln PSL1B*, 12 Volt Under Steps, 100AAT, 1st	UNDER PLATFORM LIGHTING There will be two (2) Whelen® Model PSL1B*, 4,500 lumens light(s) with white LEDs and adjustable bail bracket(s) provided under the left side front corner basket step and the right side front corner basket step. The painted parts of this light assembly to be white. The light(s) will be controlled from a switch(es) at the platform/tip and turntable.
0016924	Intercom, 2-Way Atkinson (PAP)	COMMUNICATION SYSTEM An Atkinson communication system will be furnished between the platform and the turntable operator's position. The master control located at the turntable control console will have the transmitting and receiving volume controls along with the push to talk button. A self-contained "hands-off" speaker microphone will be located front and center of the platform which will require no operator attention to transmit or receive.
0540918	Not Required, Breathing Air to Tip, Aerial Platform	
0024742	Not Required, Mask, Breathing Air To Tip	
0767396	Aerial Pedestal, 100AAT	AERIAL PEDESTAL The aerial pedestal will accommodate the height of the cab.

0766834	Lyfe Brackets, 3-In-1, Used w/Duo-Safety 875 Ladders ONLY, 100AAT	LyfeCombo™ BRACKETS Brackets will be provided to increase the safety of firefighters during fire ground and rescue operations. The removable brackets will have the following three (3) functions: securing a roof ladder to the basket, two (2) rappelling anchor points, and mounting bars to allow the secure mounting of a rescue basket stretcher. LyfeLadder™ brackets will be designed to allow firefighter access below the basket using up to a 20' roof ladder. The ladder will be secured through its beams and one (1) rung, by a 1.00" diameter aluminum rod capable of being positively latched in place and able to withstand a minimum of a 500lb load. There will be a latch to keep the ladder in a vertical position at all times. A set of nylon guides will be provided to aid in positioning the roof ladder on the mounting brackets. Two (2) LyfeEye™ rappelling arms will be provided. Forged stainless steel eyebolts with a 1.38" inside diameter will be incorporated into the design of the brackets for use as a rappel line anchor. Each anchor point will have a capacity of 300lb. LyfeSupport™ rescue basket support brackets will be provided to allow patient transport using the aerial. Two (2) quick clip basket straps will be used to secure the basket to the brackets. Strain gauging and testing will have been completed on the system (ladder and complete holding device) to ensure structural integrity of all components and maintain a minimum of two to one (2:1) safety factor.
0767149	Turntable Access, ManSaver Bar, Yellow	AERIAL TURNTABLE MANSAYER™ BAR A ManSaver™ bar will be installed at the aerial turntable.
0804860	Waterway, 100AAT	AERIAL WATERWAY The aerial waterway will be capable of being supplied by either a midship mounted pump or an external water source through a 5.00" intake at the side of the apparatus. A 5.00" water swivel will be installed below the aerial turntable permitting the ladder to rotate 360 degrees continuously. A 5.00" water swivel will be installed at the aerial heel pivot pin that will permit water tower operations of -15 degrees to 77 degrees. The heel pivot pin will not be integral with the waterway swivel at any point. The waterway design will allow complete servicing of the waterway swivel without disturbing the heel pivot pin. A telescoping aluminum waterway will be installed on the side of the aerial ladder sections. The waterway will consist of a 5.50" diameter tube for the base section, 5.00" diameter tube for the lower mid section, 4.50" diameter tube for the center mid section, 4.00" diameter tube for the upper mid section, and 3.50" diameter tube for the fly section. A 1.50" drain will be provided for the waterway. The drain will be located below the body on the right side rearward of the running board. WATERWAY SEALS The waterway seals will be of type-B PolyPak design, composed of nitroxile seal and a nitrile wiper, which together offer maximum stability and extrusion resistance on the waterway. The seal will be capable of withstanding pressures up to 2000 psi, temperatures in excess of 250 degrees Fahrenheit and have resistance to all foam generating solutions. The seals will be internally lubricated. The waterway seals will have automatic centering guides constructed of synthetic thermalpolymer. The guides will provide positive centering of the extendible sections within each other and the base section to insure longer service life and smoother operation. PLATFORM WATER SYSTEM A 4.00" (internal diameter) water swivel will connect the fly section waterway to the platform waterway. The water swivel will permit water tower operations from -15 degrees to 77 degrees. The water will be routed from the swivel to a 4.00" gear operated valve(s) on the front of the platform using a combination of 4.00" tubes and piping. The monitor(s) will be bolted onto the valve(s). A 2.50" preset pressure relief valve will be provided in the waterway system. It will be designed to protect the aerial waterway from excess pressure. It will dump water to the ground when operating. A shower nozzle rated at 75 gpm will be provided beneath the platform for heat protection for the platform personnel. A direct linkage control for the shower nozzle will be provided.
0730399	Valves, (2) TFT VUM (Valve Under Monitor), Manual	VALVE UNDER MONITOR A TFT Valve Under Monitor (VUM) valve and manifold will be provided under each monitor at the aerial platform. Each VUM will be manually controlled at the basket with a crank control. The outboard facing port of each VUM will have one (1) gated elbow with 2.50" NH threads. One (1) 1.50" x 2.50" reducer and cap will be provided on the gated elbow. All remaining ports of the VUM will be provided with a blind plug. An automatic ball drain will be provided on each VUM.
0764417	Monitors, (2), TFT Monsoon, Y4-MP1A-P-01 Manual and Y4-EP1A-P Elec, (Use w/VUM)	AERIAL MONITOR There will be two (2) Task Force Tips monitors provided at the platform. One will be a Y4-MP1A-P-01 double crank controlled monitor with a TFT YST-4NN stacked tips. The other will be a Y4-EP1A-P electric monitor with a TFT 2000 gpm Model M-ERP2000 electric nozzle. The controls for the electronic monitor will be located at the platform and the turntable control console.
0086971	Flowmeter, Waterway, MUX, PAP	WATERWAY FLOWMETER Waterway flow, including total water flowed, will be monitored by the microprocessor. An LCD display will be located at the upper and lower control stations.

0009364	Inlet, 5.00", S/S, w/ Pump, Right Side, 100AAT	WATERWAY INLET There will be a 5.00" schedule 10 stainless steel inlet pipe on the right side of the apparatus. The inlet will be connected to the base of the ladder, through the turntable swivel, to assure continuous rotation. The inlet will terminate with a 5.00" NST chrome adapter and a long handled chrome cap.
0047897	Tools, Aerial	TOOLS The following tools will be provided for retorquing of all specified bolts as recommended by the manufacturer: Torque Wrench All Required Extensions, Sockets and Adapters 4-to-1 Multiplier
0559491	Manuals and Training, 3 Consecutive Days, Platform, English	MANUALS The aerial manufacturer will provide two (2) operator maintenance manuals and two (2) wiring diagrams pertaining to the aerial device. Manuals will be in the English language. INITIAL INSTRUCTION On initial delivery of the fire apparatus, the contractor will supply a qualified representative to demonstrate the apparatus and provide initial instruction to the fire department regarding the operation, care, and maintenance of the apparatus for a period of three (3) consecutive days.
0007150	Bag of Nuts and Bolts	LOOSE EQUIPMENT The following equipment will be furnished with the completed unit: One (1) bag of chrome, stainless steel, or cadmium plated screws, nuts, bolts and washers, as used in the construction of the unit.
0047021	Reflective Emergency Triangles, Set of Three	One (1) set of reflective emergency triangles will be provided.
0816502	NFPA Required Loose Equipment, Quint, NFPA/ULC 2024, Provided by Fire Dept	NFPA LOOSE EQUIPMENT NFPA Required Loose Equipment Provided by Fire Department The following loose equipment as outlined in NFPA 1900, 2024 edition, table 8.1 and CAN/ULC S515:2024 edition, section 5.2 will be provided by the fire department: One (1) traffic vest for each seating position, each vest to comply with ANSI/ISEA 107, <i>American National Standard for High-Visibility Safety Apparel and Accessories</i> , and have a five-point breakaway feature that includes two (2) at the shoulders, two (2) at the sides, and one (1) at the front. Five (5) fluorescent orange traffic cones not less than 28.00" (711 mm) in height, each equipped with a 6.00" (152 mm) retro-reflective white band no more than 4.00" (152 mm) from the top of the cone, and an additional 4.00" (102 mm) retro-reflective white band 2.00" (51 mm) below the 6.00" (152 mm) band. Five (5) illuminated warning devices such as highway flares, unless the five (5) fluorescent orange traffic cones have illuminating capabilities. Four (4) ladder belts meeting the requirements of NFPA 2500. NFPA Loose Equipment That Should be Considered The following loose equipment as outlined in NFPA 1900, 2024 edition, appendix table A.8.4 (a) and CAN/ULC S515:2024 edition, section 5.2 should be considered: 800 ft (240 m) of 2.50" (65 mm) or larger fire hose 400 ft (120 m) of 1.50" (38 mm), 1.75" (45 mm), or 2.00" (52 mm) fire hose One (1) handline nozzle, 200 gpm min Two (2) handline nozzles, 95 gpm min One (1) playpipe with shutoff and 1", 1.125", and 1.25" tips Four (4) SCBA apparatus Four (4) SCBA spare cylinders One (1) first aid kit. Four (4) salvage covers, each a minimum size of 12 ft x 18 ft (3.6 m x 5.5 m). Four (4) combination spanner wrenches. Two (2) hydrant wrenches. One (1) double female 2.50" adapter with national hose (NH) thread. One (1) double male 2.50" adapter with national hose (NH) thread. One (1) rubber mallet, suitable for use on suction hose connections. One (1) 150 ft (45 m) light-use life safety rope meeting the requirements of NFPA 2500. One (1) 150 ft (45 m) general-use life safety rope meeting the requirements of NFPA 2500. One (1) automatic external defibrillator (AED).
0519913	Not Required, Soft Suction Hose	SOFT SUCTION HOSE There will be no soft suction hose provided.
0027023	No Strainer Required	
0533246	Extinguisher, 20 lb Dry Chemical	DRY CHEMICAL EXTINGUISHER There will be One (1) extinguisher, 20 lb dry chemical extinguisher(s) provided.

0816937	Extinguisher, 2.5 Gal. Pressurized Water, NFPA/ULC 2024, Provided by Fire Dept	WATER EXTINGUISHER PROVIDED BY FIRE DEPARTMENT The extinguisher is not on the apparatus as manufactured. The fire department will provide and mount the extinguisher.
0765595	Ladder Belts, Aerial	AERIAL LADDER BELTS The following ladder belts will be provided: no small/medium belts two (2) large/extra large belts for 34"-42" waist two (2) XXL belts for 42"-50" waist
0007482	Not Required, Crowbars	
0007484	Not Required, Claw Tools	
0816998	Axe, Flathead, Provided by Fire Department	FLATHEAD AXE PROVIDED BY FIRE DEPARTMENT The axe is not on the apparatus as manufactured. The fire department will provide and mount the axe.
0817000	Axe, Pickhead, Provided by Fire Department	PICKHEAD AXE PROVIDED BY FIRE DEPARTMENT The axe is not on the apparatus as manufactured. The fire department will provide and mount the axe.
0007494	Not Required, Sledgehammers	

0741569	Paint Process / Environmental Requirements, Appleton	PAINT PROCESS The exterior custom cab and body painting procedure will consist of a seven (7) step finishing process as follows: <u>Manual Surface Preparation</u> - All exposed metal surfaces on the custom cab and body will be thoroughly cleaned and prepared for painting. Imperfections on the exterior surfaces will be removed and sanded to a smooth finish. Exterior seams will be sealed before painting. Exterior surfaces that will not be painted include; chrome plating, polished stainless steel, anodized aluminum and bright aluminum treadplate. <u>Chemical Cleaning and Pretreatment</u> - All surfaces will be chemically cleaned to remove dirt, oil, grease, and metal oxides to ensure the subsequent coatings bond well. The aluminum surfaces will be properly cleaned and treated using a high pressure, high temperature 4 step Acid Etch process. The steel and stainless surfaces will be properly cleaned and treated using a high temperature 3 step process specifically designed for steel or stainless. The chemical treatment converts the metal surface to a passive condition to help prevent corrosion. <u>Surfacer Primer</u> - The Surfacer Primer will be applied to a chemically treated metal surface to provide a strong corrosion protective basecoat. A minimum thickness of 2 mils of Surfacer Primer is applied to surfaces that require a Critical aesthetic finish. The Surfacer Primer is a two-component high solids urethane that has excellent sanding properties and an extra smooth finish when sanded. <u>Finish Sanding</u> - The Surfacer Primer will be sanded with a fine grit abrasive to achieve an ultra-smooth finish. This sanding process is critical to produce the smooth mirror like finish in the topcoat. <u>Sealer Primer</u> - The Sealer Primer is applied prior to the Basecoat in all areas that have not been previously primed with the Surfacer Primer. The Sealer Primer is a two-component high solids urethane that goes on smooth and provides excellent gloss hold out when topcoated. <u>Basecoat Paint</u> - Two coats of a high performance, two component high solids polyurethane basecoat will be applied. The Basecoat will be applied to a thickness that will achieve the proper color match. The Basecoat will be used in conjunction with a urethane clear coat to provide protection from the environment. <u>Clear Coat</u> - Two (2) coats of Clear Coat will be applied over the Basecoat color. The Clear Coat is a two-component high solids urethane that provides superior gloss and durability to the exterior surfaces. Lap style and roll-up doors will be Clear Coated to match the body. Paint warranty for the roll-up doors will be provided by the roll-up door manufacturer. After the cab and body are painted, the color will be verified to make sure that it matches the color standard. Electronic color measuring equipment will be used to compare the color sample to the color standard entered into the computer. Color specifications will be used to determine the color match. A Delta E reading will be used to determine a good color match within each family color. All removable items such as brackets, compartment doors, door hinges, and trim will be removed and painted separately if required, to ensure paint behind all mounted items. Body assemblies that cannot be finish painted after assembly will be finish painted before assembly. The paint finish quality levels for critical areas of the apparatus (cab front and sides, body sides and doors, and boom lettering panels) are to meet or exceed Cadillac/General Motors GMW15777 global paint requirements. Orange peel levels are to meet or exceed the #6 A.C.T. standard in critical areas. The manufacturer's written paint standards will be available upon request. Environmental Impact Contractor will meet or exceed all current state regulations concerning paint operations. Pollution control will include measures to protect the atmosphere, water and soil. Controls will include the following conditions: Topcoats and primers will be chrome and lead free. Metal treatment chemicals will be chrome free. The wastewater generated in the metal treatment process will be treated on-site to remove any other heavy metals. Particulate emission collection from sanding operations will have a 99.99 percent efficiency factor. Particulate emissions from painting operations will be collected by a dry filter or water wash process. If the dry filter is used, it will have an efficiency rating of 98 percent. Water wash systems will be 99.97 percent efficient. Water from water wash booths will be reused. Solids will be removed on a continual basis to keep the water clean. Paint wastes are disposed of in an environmentally safe manner. Empty metal paint containers will be recycled to recover the metal. Solvents used in clean-up operations will be recycled on-site or sent off-site for distillation and returned for reuse. Additionally, the finished apparatus will not be manufactured with or contain products that have ozone depleting substances. Contractor will, upon demand, present evidence that the manufacturing facility meets the above conditions and that it is in compliance with his state EPA rules and regulations.
0709567	Paint, Single Color, Enforcer	CAB PAINT The cab will be painted #90 red.
0709845	Paint, Single Color, Body	BODY PAINT The body will be painted to match the lower section of the cab.

0646901	Paint Chassis Frame Assy, With Liner, E-Coat, Standard	PAINT CHASSIS FRAME ASSEMBLY The chassis frame assembly will be finished with primer and gloss black paint before the installation of the cab and body, and before installation of the engine and transmission assembly, air brake lines, electrical wire harnesses, etc. Components that are included with the chassis frame assembly that will be painted (unless otherwise stated in a secondary option) are: Frame rails Frame liners Cross members Axles Suspensions Steering gear Battery boxes Bumper extension weldment Frame extensions Body mounting angles Rear Body support substructure (front and rear) Pump house substructure Steel fuel tank Castings Individual piece parts used in chassis and body assembly Components treated with epoxy E-coat protection prior to paint: Two (2) C-channel frame rails Two (2) frame liners The E-coat process will meet the technical properties shown.
0693797	No Paint Required, Aluminum Front Wheels	
0693792	No Paint Required, Aluminum Rear Wheels	
0733739	Paint, Axle Hubs	AXLE HUB PAINT All axle hubs will be painted to match lower job color.
0007230	Compartment, Painted, Spatter Gray	COMPARTMENT INTERIOR PAINT The interior of all compartments will be painted with a gray spatter finish for ease of cleaning and to make it easier to touch up scratches and nicks.
0792638	Aerial Platform Paint	AERIAL DEVICE PAINT COLOR The aerial device paint procedure will consist of a seven (7) step finishing process as follows: 1. <u>Manual Surface Preparation</u> - All exposed metal surfaces on the aerial device structural components above the rotation point will be thoroughly cleaned and mechanically shot-blasted to remove metal impurities and prepare the aerial for painting. 2. <u>Zinc Rich Primer</u> - Zinc rich primer will be applied to the torque box and stabilizers. 3. <u>Primer/Surfacer Coats</u> - A two (2) component epoxy primer/surfacer will be applied to the mechanically shot-blasted metal surfaces to provide a strong corrosion protective base coat and to smooth out the surface. All seams will be caulked with a two (2) component epoxy caulk before painting. 4. <u>Hand Sanding</u> - The primer/surfacer coat of the outer surfaces of the hand rails and base rails will be lightly sanded to a smooth finish. 5. <u>Primer Coat</u> - A two (2) component epoxy primer coat will be applied over the sanded primer. 6. <u>Topcoat Paint</u> - Urethane base coat will be applied to opacity for correct color matching. 7. <u>Clear Coat</u> - Two (2) coats of an automotive grade two (2) component urethane will be applied. Surfaces that will not be painted include all chrome plated, polished stainless steel, anodized aluminum and bright aluminum treadplate. All buy out components, such as monitor, nozzle, gauges, etc. will be supplied as received from the vendor. Removable items such as brackets will be removed and painted separately to ensure paint coverage behind all mounted items. The aerial device components will be painted as follows using the aforementioned seven (7) step finishing process: Aerial basket and basket leveling cylinders at tip: white 10 Aerial device ladder sections and extension cylinders: white 10 Aerial turntable and leveling cylinders (if applicable) at turntable: white 10 Aerial control console: white 10 Aerial lift cylinders: white 10 Aerial rotation motor (if applicable): white 10 Aerial torque box, support structure and components below the rotation point: black 101 paint Aerial stabilizers (middle and rear only): black 101 Aerial boom support: red 90
0544111	Reflective Band, 10"	REFLECTIVE BAND A 10.00" white reflective band will be provided across the front of the vehicle and along the sides of the body.
0007356	Reflective across Cab Face	The reflective band provided on the cab face will be at the headlight level.

0583454	Stripe, Chevron, Rear, Diamond Grade, Aerial	REAR CHEVRON STRIPING There will be alternating chevron striping located on the rear-facing vertical surface of the apparatus. Covered surfaces will include the rear wall and aluminum doors. Rear compartment doors, stainless steel access doors, and the rear bumper will not be covered. The colors will be red and fluorescent yellow green diamond grade. Each stripe will be 6.00" in width. This will meet the requirements of the current edition of NFPA 1901, which states that 50% of the rear surface will be covered with chevron striping.
0598754	Stripe, Reflective/Diamond Grade, 4.00" on Stabilizers	REFLECTIVE STRIPE ON STABILIZERS There will be a 4.00" wide fluorescent yellow green diamond grade reflective stripe provided on the forward and rear facing side of all aerial stabilizers.
0027341	Jog, In Reflective Stripe, Single or Multiple	JOG(S) IN REFLECTIVE BAND The reflective band located on each side of the apparatus body will contain one (1) jog(s) and will be angled at approximately 45 degrees when installed.
0017359	Stripe, Black Outline, Vinyl on Reflective Band	REFLECTIVE STRIPE OUTLINE A black outline will be applied on the top and the bottom of the reflective band. There will be one (1) set of outline stripes required.
0593225	Stripe, Reflective, Cab Doors Interior, Diamond Grade	CAB DOOR REFLECTIVE STRIPE A 6.00" x 16.00" fluorescent yellow green diamond grade reflective stripe will be provided across the interior of each cab door. The stripe will be located approximately 1.00" up from the bottom, on the door panel. This stripe will meet the current edition of applicable NFPA standards.
0027286	Not Required, Lettering Specs	
0007472	[Lettering not Requested]	
0772003	Manual, Fire Apparatus Parts, USB Flash Drive, Custom	FIRE APPARATUS PARTS MANUAL There will be one (1) custom parts manual(s) in USB flash drive format for the complete fire apparatus provided. The manual(s) will contain the following: Job number Part numbers with full descriptions Table of contents Parts section sorted in functional groups reflecting a major system, component, or assembly Parts section sorted in alphabetical order Instructions on how to locate parts Each manual will be specifically written for the chassis and body model being purchased. It will not be a generic manual for a multitude of different chassis and bodies. Service Parts Internet Site The service parts information included in these manuals are also available on the Pierce website. The website offers additional functions and features not contained in this manual, such as digital photographs and line drawings of select items. The website also features electronic search tools to assist in locating parts quickly.
0772037	Manual, Chassis Service, USB Flash Drive, Custom	CHASSIS SERVICE MANUALS There will be one (1) chassis service manuals on USB flash drives containing parts and service information on major components provided with the completed unit. The manual will contain the following sections: Job number Table of contents Troubleshooting Front Axle/Suspension Brakes Engine Tires Wheels Cab Electrical, DC Air Systems Plumbing Appendix The manual will be specifically written for the chassis model being purchased. It will not be a generic manual for a multitude of different chassis and bodies.
0773381	Manual, Chassis Operation, (1) USB Flash Drive, Custom, English	CHASSIS OPERATION MANUAL The chassis operation manual will be provided on one (1) USB flash drive. The manual will be in the English language.

0030008	Warranty, Basic, 1 Year, Apparatus, WA0008	ONE (1) YEAR MATERIAL AND WORKMANSHIP A Pierce basic apparatus limited warranty certificate, WA0008, is included with this proposal.
0735523	Warranty, Engine, Paccar MX13, 5 Year, WA0386	ENGINE WARRANTY A Paccar five (5) year limited engine warranty will be provided. A limited warranty certificate is included with this proposal.
0684953	Warranty, Steering Gear, Sheppard M110, 3 Year WA0201	STEERING GEAR WARRANTY A Sheppard three (3) year limited steering gear warranty will be provided. A copy of the warranty certificate will be submitted with this proposal.
0596017	Warranty, Frame, 50 Year, Custom Chassis, WA0013	FIFTY (50) YEAR STRUCTURAL INTEGRITY The Pierce custom chassis frame only (does not include crossmembers) limited warranty certificate, WA0013, is included with this proposal.
0595698	Warranty, Axle, 3 Year, TAK-4, WA0050	FRONT AXLE THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY The Pierce TAK-4 suspension limited warranty certificate, WA0050, is included with this proposal.
0733305	Warranty, Tandem Axle, 5 Year, Meritor, General Service, WA0384	TDM REAR AXLE FIVE (5) YEAR MATERIAL AND WORKMANSHIP WARRANTY A Meritor™ Axle 5 year limited warranty will be provided.
0652758	Warranty, ABS Brake System, 3 Year, Meritor Wabco, WA0232	ABS BRAKE SYSTEM THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY A Meritor Wabco™ ABS brake system limited warranty certificate, WA0232, is included with this proposal.
0019914	Warranty, Structure, 10 Year, Custom Cab, WA0012	TEN (10) YEAR STRUCTURAL INTEGRITY The Pierce custom cab limited warranty certificate, WA0012, is included with this proposal.
0744240	Warranty, Paint, 10 Year, Cab, Pro-Rate, WA0055	TEN (10) YEAR PRO-RATED PAINT AND CORROSION A Pierce cab limited pro-rated paint warranty certificate, WA0055, is included with this proposal.
0524627	Warranty, Electronics, 5 Year, MUX, WA0014	FIVE (5) YEAR MATERIAL AND WORKMANSHIP The Pierce Command Zone electronics limited warranty certificate, WA0014, is included with this proposal.
0695416	Warranty, Pierce Camera System, WA0188	CAMERA SYSTEM WARRANTY A Pierce fifty four (54) month warranty will be provided for the camera system.
0647720	Warranty, Pierce LED Strip Lights, WA0203	COMPARTMENT LIGHT WARRANTY The Pierce 12 volt DC LED strip lights limited warranty certificate, WA0203, is included with this proposal.
0046369	Warranty, 5-year EVS Transmission, Standard Custom, WA0187	TRANSMISSION WARRANTY The transmission will have a five (5) year/unlimited mileage warranty covering 100 percent parts and labor. The warranty will be provided by Allison Transmission. Note: The transmission cooler is not covered under any extended warranty you may be getting on your Allison Transmission. Please review your Allison Transmission warranty for coverage limitations.
0685945	Warranty, Transmission Cooler, WA0216	TRANSMISSION COOLER WARRANTY The transmission cooler will carry a five (5) year parts and labor warranty (exclusive to the transmission cooler). In addition, a collateral damage warranty will also be in effect for the first three (3) years of the warranty coverage and will not exceed \$10,000 per occurrence. A copy of the warranty certificate will be included with this proposal.
0688798	Warranty, Water Tank, Lifetime, UPF, Poly Tank, WA0195	WATER TANK WARRANTY A UPF poly water tank limited warranty certificate, WA0195, is included with this proposal.
0596025	Warranty, Structure, 10 Year, Body, WA0009	TEN (10) YEAR STRUCTURAL INTEGRITY The Pierce apparatus body limited warranty certificate, WA0009, is included with this proposal.

0693127	Warranty, Gortite, Roll-up Door, 6 Year, WA0190	ROLL UP DOOR MATERIAL AND WORKMANSHIP WARRANTY A Gortite roll-up door limited warranty will be provided. The mechanical components of the roll-up door will be warranted against defects in material and workmanship for the lifetime of the vehicle. A six (6) year limited warranty will be provided on painted and satin roll up doors. The limited warranty certificate, WA0190, is included with this proposal.
0734463	Warranty, Pump, Waterous, 7 Year Parts, WA0382	PUMP WARRANTY The Waterous pump will be provided with a seven (7) year material and workmanship limited warranty . A copy of the warranty certificate will be included with this proposal.
0648675	Warranty, 10 Year S/S Pumping, WA0035	TEN (10) YEAR PUMP PLUMBING WARRANTY The Pierce apparatus plumbing limited warranty certificate, WA0035, is included with this proposal.
0641372	Warranty, Foam System, Not Available	
0006999	Warranty, Structure, 20 Year, Aerial Device, WA0052	TWENTY (20) YEAR AERIAL DEVICE STRUCTURAL INTEGRITY WARRANTY The Pierce device limited warranty certificate, WA0052, is included with this proposal.
0687388	Warranty, Swivels, 5 Year, Aerial Device, WA0197	AERIAL SWIVEL WARRANTY An Amity five (5) year limited swivel warranty will be provided. A copy of the warranty certificate will be included with this proposal.
0685727	Warranty, Hydraulic System and Components, 3 Year/5 Year, WA0200	HYDRAULIC SYSTEM COMPONENTS WARRANTY Aerial hydraulic system components will be provided with a five (5) year material and workmanship limited warranty. HYDRAULIC SEAL WARRANTY Aerial hydraulic seals will be provided with a three (3) year material and workmanship limited warranty. A copy of the warranty certificates is included with this proposal.
0687327	Warranty, Waterway, 10 Year, Aerial Device, WA0198	AERIAL WATERWAY WARRANTY An Amity ten (10) year limited waterway warranty will be provided. A copy of the warranty certificate is included with this proposal.
0595860	Warranty, Paint, 4 Year, Aerial Device, Pro-Rated, WA0047	FOUR (4) YEAR PRO-RATED PAINT AND CORROSION A Pierce aerial device limited pro-rated paint warranty certificate, WA0047, is included with this proposal.
0553455	Warranty, Electronics, 5 Year, MUX, WA0014	FIVE (5) YEAR MATERIAL AND WORKMANSHIP The Pierce Command Zone electronics limited warranty certificate, WA0014, is included with this proposal.
0595820	Warranty, Paint, 10 Year, Body, Pro-Rate, WA0057	TEN (10) YEAR PRO-RATED PAINT AND CORROSION A Pierce body limited pro-rated paint warranty certificate, WA0057, is included with this proposal.
0593921	Not Required, Warranty, No Lettering	
0819254	Certification, Vehicle Stability, CD0196	VEHICLE STABILITY CERTIFICATION The fire apparatus manufacturer will provide a certification stating the apparatus complies with NFPA 1900, current edition, section 7.14, Vehicle Stability. The certification is included with this proposal.
0808565	Certification, Engine Installation, Enf, Paccar MX, 2027	ENGINE INSTALLATION CERTIFICATION The fire apparatus manufacturer will provide a certification, along with a letter from the engine manufacturer stating they approve of the engine installation in the bidder's chassis. The certification will be provided at the time of delivery.
0686786	Certification, Power Steering, CD0098	POWER STEERING CERTIFICATION The fire apparatus manufacturer will provide a certification stating the power steering system as installed meets the requirements of the component supplier. The certification is included with this proposal.

0892691	Certification, Cab Integrity, Saber FR/Enforcer, CD0189	CAB INTEGRITY CERTIFICATION The fire apparatus manufacturer will provide a cab crash test certification with this proposal. The certification will state that a specimen representing the substantial structural configuration of the cab has been tested and certified by an independent third party test facility. Testing events will be documented with photographs, real-time and high-speed video, vehicle accelerometers, cart accelerometers, and a laser speed trap. The fire apparatus manufacturer will provide a state licensed professional engineer to witness and certify all testing events. Testing will meet or exceed the requirements below: SAE J2422 Cab Roof Strength Evaluation - Quasi-Static Loading Heavy Trucks. European Occupant Protection Standard ECE Regulation No.29. SAE J2420 COE Frontal Strength Evaluation - Dynamic Loading Heavy Trucks. Side Impact The cab will be subjected to dynamic preload where a 14,320-lb moving barrier is slammed into the side of the cab at 5.50 mph, striking with an impact of 13,000 ft-lb of force. This test is part of the SAE J2422 test procedure and more closely represents the forces a cab will see in a rollover incident. Frontal Impact The same cab will withstand a frontal impact of 32,600 ft-lb of force using a moving barrier in accordance with SAE J2420. Additional Frontal Impact The same cab will withstand a frontal impact of 65,098 ft-lb of force using a moving barrier. (Twice the force required by SAE J2420) Roof Crush The cab will be subjected to a roof crush force of 22,500 lb. This value meets the ECE 29 criteria, and is equivalent to the front axle rating up to a maximum of ten (10) metric tons. Additional Roof Crush The same cab will be subjected to a roof crush force of 110,000 lbs. (Four and a half times the load criteria of ECE 29) The same cab will withstand all tests without any measurable intrusion into the survival space of the occupant area.
0631973	Certification, Cab Door Durability, Saber FR/Enforcer, CD0137	CAB DOOR DURABILITY CERTIFICATION Robust cab doors help protect occupants. Cab doors will survive a 200,000 cycle door slam test where the slamming force exceeds 20 G's of deceleration. The bidder will certify that the sample doors similar to those provided on the apparatus have been tested and have met these criteria without structural damage, latch malfunction, or significant component wear.
0631978	Certification, Windshield Wiper Durability, Saber FR/Enforcer, CD0132	WINDSHIELD WIPER DURABILITY CERTIFICATION Visibility during inclement weather is essential to safe apparatus performance. Windshield wipers will survive a 3 million cycle durability test in accordance with section 6.2 of SAE J198 <i>Windshield Wiper Systems - Trucks, Buses and Multipurpose Vehicles</i>. The bidder will certify that the wiper system design has been tested and that the wiper system has met these criteria.
0631974	Certification, Electric Window Durability, Saber FR/Enforcer, CD0133	ELECTRIC WINDOW DURABILITY CERTIFICATION Cab window roll-up systems can cause maintenance problems if not designed for long service life. The window regulator design will complete 30,000 complete up-down cycles and still function normally when finished. The bidder will certify that sample doors and windows similar to those provided on the apparatus have been tested and have met these criteria without malfunction or significant component wear.
0631977	Certification, Seat Belt Anchors and Mounting, Saber FR/Enforcer, CD0134	SEAT BELT ANCHOR STRENGTH Seat belt attachment strength is regulated by Federal Motor Vehicle Safety Standards and should be validated through testing. Each seat belt anchor design will withstand 3000 lb of pull on both the lap and shoulder belt in accordance with FMVSS 571.210 Seat Belt Assembly Anchorages. The bidder will certify that each anchor design was pull tested to the required force and met the appropriate criteria. SEAT MOUNTING STRENGTH Seat attachment strength is regulated by Federal Motor Vehicle Safety Standards and should be validated through testing. Each seat mounting design will be tested to withstand 20 G's of force in accordance with FMVSS 571.207 Seating Systems. The bidder will certify, at time of delivery, that each seat mount and cab structure design was pull tested to the required force and met the appropriate criteria.

0735949	Certification, Cab HVAC System Performance, SFR/Enf, CD0165/CD0167/CD0174/CD0175	PERFORMANCE CERTIFICATIONS Cab Air Conditioning Good cab air conditioning temperature and air flow performance keeps occupants comfortable, reduces humidity, and provides a climate for recuperation while at the scene. The cab air conditioning system will cool the cab from a heat-soaked condition at 100 degrees Fahrenheit to an average of 78 degrees Fahrenheit in 30 minutes. The bidder will certify that a substantially similar cab has been tested and has met these criteria. Cab Defroster Visibility during inclement weather is essential to safe apparatus performance. The defroster system will clear the required windshield zones in accordance with SAE J381 Windshield Defrosting Systems Test Procedure And Performance Requirements - Trucks, Buses, And Multipurpose Vehicles. <i>The bidder will certify that the defrost system design has been tested in a cold chamber and passes the SAE J381 criteria.</i> Cab Auxiliary Heater <i>Good cab heat performance and regulation provides a more effective working environment for personnel, whether in-transit, or at a scene. An auxiliary cab heater will warm the cab 77 degrees Fahrenheit from a cold-soak, within 30 minutes when tested using the coolant supply methods found in SAE J381. The bidder will certify, at time of delivery, that a substantially similar cab has been tested and has met these criteria.</i>
0545073	Amp Draw Report, NFPA Current Edition	AMP DRAW REPORT The bidder will provide, at the time of bid and delivery, an itemized print out of the expected amp draw of the entire vehicle's electrical system. The manufacturer of the apparatus will provide the following: Documentation of the electrical system performance tests. A written load analysis, which will include the following: The nameplate rating of the alternator. The alternator rating under the conditions specified per: Current edition of applicable NFPA standards. The minimum continuous load of each component that is specified per: Current edition of applicable NFPA standards. Additional loads that, when added to the minimum continuous load, determine the total connected load. Each individual intermittent load. All of the above listed items will be provided by the bidder per the current edition of applicable NFPA standards.
0002758	Amp Draw, NFPA/ULC Radio Allowance	
0799248	Appleton/Florida BTO	
0000053	Ascendant Tower	
0000012	PIERCE CHASSIS	
0735525	PACCAR MX13 ENGINE	
0046396	EVS 4000 Series TRANSMISSION	
0830902	WATEROUS PUMP ESU1 AAT	
0020009	POLY TANK	
0028047	NO FOAM SYSTEM	
0020006	SIDE CONTROL	
0020007	AKRON VALVES	
0020015	ABS SYSTEM	
0658751	PUMPER BASE	

Memo

To: Jonathan Flores, Finance Director
From: Patrick Brody, Fire Chief
Date: 05/21/2026
Re: Budget Amendment Request

Purpose of Budget Amendment Request:

Provide additional funding needed for the purchase of a 100' Pierce Enforcer Mid-Mount Aerial Platform in the amount of 2,351,312

Source of Funding:

General Fund fund balance and Intergovernmental fund balance, annual fire truck allocation, and TIFMAS equipment funds.

Funding previously approved? If so, by City Manager or City Council and when?

No

Project/Budget to be amended	Revenue	Expense
General Fund fund balance		
100' Pierce Enforcer Mid-Mount Aerial Platform		360,000
Intergovernmental fund balance		
100' Pierce Enforcer Mid-Mount Aerial Platform		670,364

Additional Comments:

The remaining budgeted amount has been funded in Fund 502 General capital projects and Fund 103 TIFMAS special project. Per the Budget Policy section XIII (C) 3: Changes to the budget that are necessary for purchases, grants, or interlocal agreements if the City Council agenda caption of the item clearly states the funding source and the amount of the item. The background memo must clearly show all funds impacted by the expenditure. If these requirements are met, the agenda item serves as final approval by City Council for the expenditure and the amendment to the budget.

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Aaron Vannoy, Director, Planning and Development Services

Meeting Date: June 2, 2026

Item type: Regular Item

Caption:

Consider Tax Increment Reinvestment Zone funding for the following proposed projects in the South Zone:

1. 11 N. Chadbourne A
2. 11 N. Chadbourne B
3. 7 N. Chadbourne A
4. 7 N. Chadbourne B
5. 7 N. Chadbourne C
6. 30 S. Chadbourne
7. 305 W. Twohig
8. 415 W. Beauregard
9. 5 W. Concho

for a cumulative amount of \$858,652 (Presentation by Planning & Development Services Director Aaron Vannoy)

Staff Recommendation:

Approve

Summary/History:

The South TIRZ Fund has been improving steadily over the past few years. This year, the difference between taxable values increased the fund by approximately \$225,000 with \$1,518,515 dollars collected for the South TIRZ Fund. Interest income has been significantly improved from a typical \$12,500 annually to this year \$75,657. Therefore, we have a significant and robust South Fund to distribute funding to several projects.

In years past, we have funded projects with separate addresses, although they may have been in the same building or structure. You will see we have very similar requests this cycle. The slight difference is that we intentionally placed in the policies to support vertical structures which may have individual addresses or suites, but we do not have specific information about the addresses or suites. We (city staff) plan to bring forward a policy change that would follow our current practice of allowing addresses or suites to apply for funding (property owner must be part of the application).

The TIRZ Board recommends full funding for each project listed below from their meeting on May 13th, 2026.

1. 11 N Chadbourne A — A Request is \$100,000 on a project costing \$220,000 for new storefront windows and doors, awning, reconstruction, painting, firewalls and egress. Their proposal will separate this space via a

fire wall and separate egress to essentially under the building code, making this a separate building. They have applied for and received a separate address from 11 N Chabourne suite A.

2. 11 N Chadbourne B - A Request is \$100,000 on a project costing \$220,000 for new storefront windows and doors, awning, reconstruction, painting, firewalls and egress. Their proposal will separate this space via a fire wall and separate egress to essentially under the building code, making this a separate building. They have applied for and received a separate address from 11 N Chabourne suite B.

3. 7 N Chadbourne A - A Request is \$100,000 on a project costing \$220,000 for new storefront windows and doors, awning, reconstruction, painting, firewalls and egress. Their proposal will separate this space via a fire wall and separate egress to essentially under the building code, making this a separate building. They have applied for and received a separate address from 7 N Chabourne suite A.

4. 7 N Chadbourne B - A Request is \$100,000 on a project costing \$220,000 for new storefront windows and doors, awning, reconstruction, painting, firewalls and egress. Their proposal will separate this space via a fire wall and separate egress to essentially under the building code, making this a separate building. They have applied for and received a separate address from 7 N Chabourne suite B.

5. 7 N Chadbourne C - A Request is \$100,000 on a project costing \$220,000 for new storefront windows and doors, awning, reconstruction, painting, firewalls and egress. Their proposal will separate this space via a fire wall and separate egress to essentially under the building code, making this a separate building. They have applied for and received a separate address from 7 N Chabourne suite C.

6. 30 S. Chadbourne - A Request is \$100,000 on a project costing \$220,650 for a Fire Sprinkler System for the first two floors.

7. 305 W Twohig - A Request is \$43,989 on a project costing \$58,652 (25% match is \$14,663) for exterior repairs, new energy-efficient windows and exterior paint.

8. 415 W Beauregard - A Request is \$100,000 on a project costing \$300,000 for fire sprinkler and fire alarm upgrades.

9. 5 West Concho — A request for an additional \$100,000 on a project cost of \$500,000. The project consists of the demolition of the facade to add new exterior doors and windows, sidewalk demo and repair, and emergency alarm systems in the new facility. This project has been awarded in previous cycles a total of \$75,000 for this project, but they have been unable to start work. They have come back to request additional funds equal to \$100,000 to include the sidewalk.

The total request is \$843,989 from a beginning balance of 1,720,191 leaving an available balance of \$876,202 for a second South TIRZ application cycle.

Funding Source(s):

Financial Impact:

Other Information/Recommendation:

Attachments:

Presentation:

Aaron Vannoy

Approvals/Reviews:

Aaron Vannoy

Aaron Vannoy

Kathleen Dabbert

Brandon Dyson

Heather Stastny

Created/Initiated

Approved

Approved

Approved

Final Approval

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Aaron Vannoy, Director, Planning and Development Services

Meeting Date: June 2, 2026

Item type: Regular Item

Caption:

Consider Tax Increment Reinvestment Zone funding for a North Zone project located at 1313 N. Bryant in the amount for \$100,000 (Presentation made by Planning & Development Services Director Aaron Vannoy)

Staff Recommendation:

Approve

Summary/History:

The North TIRZ Fund has been strong but under utilized over the past few years. This year, the difference between taxable values increased the fund by approximately \$200,000 with \$1,480,133 dollars collected for the North TIRZ Fund. Interest income was very strong this year, \$176,275. Therefore, we have a significant and robust North Fund to distribute funding to several projects and public project being at \$3,848,424.

1313 N Bryant Blvd. — A request for \$100,000 on a project costing \$118,500 to enclose an existing patio at the local Taquería Jalisco restaurant. This will include a new facade, windows, lighting, painting and striping of the parking lot.

The TIRZ Board recommends full funding for this project at their May 13th, 2026 meeting.

Funding Source(s):

Financial Impact:

Other Information/Recommendation:

Attachments:

Presentation:

Aaron Vannoy

Approvals/Reviews:

Aaron Vannoy
Aaron Vannoy
Kathleen Dabbert
Brandon Dyson
Heather Stastny

Created/Initiated
Approved
Approved
Approved
Final Approval

REPORT TO MAYOR & MEMBERS OF CITY COUNCIL



Requestor: Jonathan Flores, Budget Manager, Budget

Meeting Date: June 2, 2026

Item type: Regular Item

Caption:

Public hearing for the 2027-2031 Capital Improvement Plan for the City of San Angelo (Presentation made by Finance Director Jonathan Flores)

Staff Recommendation:

Direction from Council

Summary/History:

The capital planning process and Capital Improvement Plan (CIP) were established to provide a routine process for identifying, evaluating, and advocating the capital needs of the City of San Angelo. Street, water, drainage, and park projects are in the CIP, as are new facilities and facility improvements. The formal CIP process was implemented in 2007 and is required by the City charter. The CIP aids the City Council in allocating funding in the annual operating budget. With this CIP in place, staff will continue to stay the course on researching solutions to these major issues.

The CIP's online format offers citizens the opportunity to voice their opinions. Public comments will be accepted until June 10, 2026, and then emailed to City Council.

The final proposed 2027-2031 CIP for the Council's consideration is available on the budget's web page at <https://city-san-angelo-tx-clear.doc.cleargov.com/24694/974536/d>. This is the first step in approving this year's CIP. Staff will bring the plan along with a resolution to approve the CIP at a later meeting.

In compliance with the charter regulations, the proposed CIP is published on the internet with a public notice that the Council will conduct a public hearing at this meeting. Any comments received via the website are provided in the background. The City Charter also requires the CIP to be introduced to City Council five months before the final submission of the budget.

Funding Source(s):

Financial Impact:

None at this time. Funding will be discussed during the fiscal year 2026-27 budget and future years' budget preparation processes.

Other Information/Recommendation:

No Action is needed at this time.

Attachments:

Presentation:

Jonathan Flores

Approvals/Reviews:

Jonathan Flores	Created/Initiated
Jonathan Flores	Approved
Tina Dierschke	Approved
Brandon Dyson	Approved
Heather Stastny	Final Approval