

Board of Public Works Meeting
March 31, 2020



The City will offer virtual options, including CATS public access television (live and tape-delayed), Facebook Live ([facebook.com/citybloomington](https://www.facebook.com/citybloomington)), Zoom or otherwise.

Public comments and questions will be encouraged via [bloomington.in.gov](https://www.bloomington.in.gov) rather than in person.

AGENDA
BOARD OF PUBLIC WORKS
March 31, 2020

A Regular Meeting of the Board of Public Works to be held through Virtual Meeting on Tuesday, March 31, 2020 at 5:30 p.m.

The City will offer virtual options, including CATS public access television (live and tape-delayed), Facebook Live (facebook.com/citybloomington), Zoom or otherwise.

Public comments and questions will be encouraged via bloomington.in.gov rather than in person.

- I. MESSAGES FROM BOARD MEMBERS**
- II. PETITIONS & REMONSTRANCES**
- III. CONSENT AGENDA**
 - 1. Approval of Minutes – March 17, 2020**
 - 2. Approval of Payroll**
- IV. NEW BUSINESS**
 - 1. Approve 2020 Buskirk- Chumley Management Partnership Agreement**
 - 2. Approve Acceptance of Public Improvements with Patterson Pointe Development**
 - 3. Approve Construction Inspection Contract with HWC Engineering for Adams Street Sidewalk and Intersection Improvements Project**
 - 4. Approve Contract with E-One for Procurement of Two Tactical Vehicles for Bloomington Fire Department**
 - 5. Approve Lane Closure on S. Franklin Road**
- V. STAFF REPORTS & OTHER BUSINESS**
- VI. APPROVAL OF CLAIMS**
- VII. ADJOURNMENT**

Auxiliary aids for people with disabilities are available upon request with adequate notice. Please call 812-349-3410 or email public.works@bloomington.in.gov.

The Board of Public Works meeting was held on Tuesday, March 17 2020, at 5:30 pm in the Council Chambers at City Hall, 401 N. Morton St., Bloomington, Indiana, with Kyla Cox Deckard presiding.

**REGULAR MEETING
OF THE BOARD OF
PUBLIC WORKS**

Present: Kyla Cox Deckard
Dana Palazzo

ROLL CALL

City Staff: Adam Wason – Public Works
April Rosenberger – Public Works

Palazzo wanted to thank Adam Wason for his leadership during this time. She also wanted to thank all City crews working currently. Cox Deckard also wanted to thank Adam Wason, City crews, and the community.

**MESSAGES FROM
BOARD MEMBERS**

None

**PETITIONS &
REMONSTRANCES**

CONSENT AGENDA

1. **Approval of Minutes – March 3, 2020**
2. **Resolution 2020-21: Approve Declaration of Surplus Reference Books from Planning and Transportation**
3. **Resolution 2020-22: Approve Declaration of Surplus Fleet Vehicles**
4. **Approval of Payroll**

Palazzo made a motion to approve the items on the consent agenda. Cox Deckard seconded the motion. Motion is passed. Consent agenda is approved.

NEW BUSINESS

Adam Wason, Public Works, presented Approve Change Order #2 with Milestone Contractors, LLC. for 2nd-Bloomfield Multimodal Safety Project. See meeting packet for details.

Palazzo made a motion to Approve Change Order #2 with Milestone Contractors, LLC. for 2nd-Bloomfield Multimodal Safety Project. Cox Deckard seconded. Motion is passed.

Wason presented Approve Change Order #1 with Conexco, Inc. for the Winslow-Henderson Path Project. See meeting packet for details.

Palazzo made a motion to Approve Change Order #1 with Conexco, Inc. for the Winslow-Henderson Path Project. Cox Deckard seconded. Motion is passed.

Wason presented Approve Contract with James H. Drew Corp., for Construction of 2020 Guardrail Replacement Project. See meeting packet for details.

Palazzo made a motion to Approve Contract with James H. Drew Corp., for Construction of 2020 Guardrail Replacement Project. Cox Deckard Seconded. Motion is passed.

**Approve Change Order #2
with Milestone Contractors,
LLC. for 2nd Bloomfield
Multimodal Safety Project**

**Approve Change Order #1
with Conexco, Inc. for the
Winslow-Henderson Path
Project**

**Approve Contract with
James H. Drew Corp., for
Construction of 2020
Guardrail Replacement
Project**

Wason wanted to thank all of the working crews in Public Works and throughout the City. The City is taking necessary steps to clean and sanitize all City facilities that the CDC recommends. The City is remaining open and all offices will answer phone calls whether they are working remotely or in the office. Wason wanted to thank the community and together we can get through this hard time.

STAFF REPORTS & OTHER BUSINESS

Palazzo made a motion to approve claims in the amount of \$2,144,663.70. Cox Deckard seconded. Claims are approved.

APPROVAL OF CLAIMS

Cox Deckard called for adjournment. Meeting adjourned at 5:41 P.M.

ADJOURNMENT

Accepted By:

Kyla Cox Deckard, President

Beth H. Hollingsworth, Vice-president

Dana Palazzo, Secretary

Date:

Attest to:

REGISTER OF PAYROLL CLAIMS

Board: Board of Public Works Claim Register

Date:	Type of Claim	FUND	Description	Bank Transfer	Amount
3/27/2020	Payroll				434,014.17
					<u><u>434,014.17</u></u>

ALLOWANCE OF CLAIMS

We have examined the claims listed on the foregoing register of claims, consisting of **1** claim, and except for the claims not allowed as shown on the register, such claims are hereby allowed in the total amount of **\$ 434,014.17**

Dated this 31st day of March year of 2020.

Kyla Cox Deckard President

Beth H. Hollingsworth Vice President

Dana Palazzo Secretary

I hereby certify that each of the above listed voucher(s) or bill(s) is (are) true and correct and I have audited same in accordance with IC 5-11-10-1.6.

Fiscal Officer _____

Board of Public Works Staff Report

Project/Event:	Buskirk-Chumley Theater Management Partnership Agreement Approval
Petitioner:	Economic and Sustainable Development, Parks and Recreation
Staff Representative:	Larry Allen, Assistant City Attorney Alex Crowley, Director ESD Paula McDevitt, Director Parks and Recreation
Date:	March 31, 2020

Recommendation

It is recommended the Board approve the 2020 Management Partnership Agreement with BCTM, Inc. to manage the Buskirk-Chumley Theater for the benefit of the community.

Background

Since its renovation in 1999, the Buskirk-Chumley Theater (“Theater”), a performing arts venue at 114 E. Kirkwood, has become a key contributor to the economic and cultural vitality of downtown Bloomington and one of the many attractions to draw people to the downtown business district.

The attached agreement reflects discussions between City staff and BCT Management, Inc. staff and their Board members.

Funding

Funding will be provided in the 2020 City Council budget to assist BCTM, Inc. with duties related to their operation of the Theater as stated below:

The City shall, for the term of this Agreement, provide Fifty Five Thousand Dollars (\$55,000.00) to support the operations at the BCT (“Operations Funding”). This is the same funding as 2019. The funding will be paid in four (4) quarterly payments of Thirteen Thousand Seven Hundred Fifty Dollars (\$13,750.00).

Parks Operations Division General Fund will fund up to Fifteen Thousand Dollars (\$15,000) for eligible facility maintenance repairs.

In addition, \$74,000 in funding for building related improvements, from the City's Consolidated TIF through the Redevelopment Commission, will continue in 2020.

The total support for the Buskirk-Chumley Theater in 2020 will be \$144,000 a decrease of \$3,200 from 2019 funding.

Staff recommends approval of the 2020 Buskirk-Chumley Theater Management Partnership Agreement.

Recommend Approval Denial by: Larry Allen

Board of Public Works

Staff Report



PARTNERSHIP AGREEMENT

This Agreement, made and entered into this ____ day of March, 2020, by and between the **City of Bloomington, Indiana** (“City”) by its Mayor, Board of Park Commissioners (“Parks Board”), and **Redevelopment Commission** (“Commission”) and **BCT Management, Inc.**, an Indiana non-profit corporation (“BCTM”),

WITNESSETH:

WHEREAS, the Buskirk-Chumley Theater (“BCT”) is a performing arts facility in downtown Bloomington, Monroe County, Indiana, that is owned by the Parks Board; and

WHEREAS, BCTM has managed the BCT since 2001 pursuant to an agreement with the City, and the City wishes to enter into this Partnership Agreement (“Agreement”) with BCTM to manage and operate the BCT; and

WHEREAS, BCTM is an Indiana non-profit corporation which has the capacity and commitment to manage the BCT as an accessible and affordable community resource; and

WHEREAS, the previous Management Agreement between the City and BCTM was set to expire on December 31, 2019; and

WHEREAS, the Parties agreed to an addendum of the 2019 Agreement, which extended the Agreement through March 5, 2020; and

WHEREAS, the City has determined that it is in the public interest to enter into a new Agreement with BCTM for the management of the BCT for the period of February 26, 2020 through December 31, 2020, with the intent to continue the parties’ successful relationship into the future; and

WHEREAS, the City may from time to time develop partnerships with non-City organizations in order to promote such entertainment services; and

WHEREAS, it is in the public interest that such partnership continue;

NOW, THEREFORE, in consideration of the mutual covenants, terms and conditions in this Agreement, the City and BCTM agree as follows:

1. PURPOSE OF AGREEMENT

The purpose of this Agreement is to outline a program partnership, which will provide entertainment to the public at the BCT.

2. DURATION OF AGREEMENT

This Agreement shall be in full force and effect from February 26, 2020, to December 31, 2020, unless early termination occurs as described in paragraph 6(j), below.

3. FUNDING

The City shall, for the term of this Agreement, provide Fifty Five Thousand Dollars (\$55,000.00) to support the operations and programming at the BCT (“Operations Funding”). The Operations Funding shall be paid in four (4) quarterly payments of Thirteen Thousand Seven Hundred Fifty Dollars (\$13,750.00). These funds shall not be used for capital needs of the BCTM.

The City through its Parks and Recreation Department shall, for the term of this Agreement, provide up to Fifteen Thousand Dollars (\$15,000) for emergency repairs at the BCT, unless the Parties otherwise agree in writing to additional repairs and funding.

The Redevelopment Commission shall, for the term of this Agreement, provide up to Seventy-Four Thousand Dollars (\$74,000.00) from the Consolidated TIF (“Tax Increment Funding”). The Tax Increment Funding may be used only for purposes permitted by Indiana Code § 36-7-14-39. The Tax Increment Funding will only be provided after: (1) BCTM has followed the City’s procurement process, as set forth in its Financial Policies Manual, to obtain bids or quotes for a desired purchase, (2) the BCTM has made a request for Tax Increment Funding, (3) the City—through the Director of Parks and Recreation or her designee—has approved the request for Tax Increment Funding, and (4) the Redevelopment Commission has approved the request for Tax Increment Funding via resolution. No Project Review and Approval Form shall be necessary for the expenditure of Tax Increment Funding under this Agreement. BCTM will submit to the City by November 1, 2020 a list of 2021 projects to be considered for potential 2021 Tax Increment Funding. The City and BCTM shall cooperate on selecting priorities for the Tax Increment Funding.

4. BCTM

The goal of BCTM is to provide a world-class entertainment schedule at the BCT for the Bloomington area community, including residents of Monroe County and surrounding counties and visitors. Except as provided in this Agreement, BCTM shall have the exclusive authority to operate and manage the BCT under this Agreement. BCTM agrees to:

a. Programming:

- i. BCTM shall manage the BCT in a professional manner and utilize its best efforts to preserve and expand the BCT’s role as a high quality, accessible community resource, and to schedule and promote a diverse program of local, regional, and national artists and events, so as to serve a broad segment of the community and a wide variety of interests and audiences. BCTM shall maintain and administer

booking procedures and rental rates that give performers, renters, and other users a fair and reasonable opportunity to use the facility.

- ii. BCTM shall use the BCT premises only for operation of the BCT as a venue for presenting arts and entertainment events, private events, educational programs, community events and other programs and events benefiting the public. The BCT premises may be used and occupied only for the uses described in this Agreement. BCTM shall not permit any nuisance to be maintained or permitted on the premises, nor any disturbance, noise, or other annoyance that interferes with the reasonable comfort and quiet enjoyment of persons occupying adjacent properties. If BCTM fails to remedy the nuisance, then the City shall have the right to enter on the premises to remedy the nuisance. However, the City's failure to assert its right to remedy a nuisance shall not impose an affirmative duty on the City so that it assumes liability for the nuisance. Regardless of any entry or non-entry onto the premises by the City for the purpose of remedying a nuisance, BCTM shall remain solely liable for any and all liability resulting to any persons from any nuisance maintained or permitted on the premises.

b. Management Obligation: BCTM shall manage the BCT as follows:

- i. BCTM agrees to maintain its principal and only corporate office with regular office hours on the BCT premises.
- ii. As an independent contractor, and at its sole cost and expense, BCTM shall employ an Executive Director, Technical Director, and such other personnel as necessary in its sole opinion to the operation of the BCT in conformance with the terms of this Agreement. BCTM and its personnel, agents, volunteers, contractors or subcontractors shall in no event be construed to be, or represent themselves to be employees of the City.
- iii. BCTM shall use the BCT premises only for operation of the BCT as a venue for presenting arts and entertainment events, private events, educational programs, community events and other programs and events benefiting the public. The BCT premises may be used and occupied only for the uses described in this Agreement.
- iv. BCTM shall be solely liable and responsible for any and all operating expenses incurred and contracts and agreements entered into in the course of its operation and management of the BCT, provided, however, that BCTM does not assume, and shall not be liable for, any financial obligations of the City regarding the BCT. However, expenses such as property taxes charged directly to the City that stem from BCTM's operation, contracts and agreements with third parties must be reimbursed by BCTM to the City. The BCT shall also take responsibility for all expenses related to the Alcoholic Beverages permit the City obtained for BCTM.
- v. BCTM shall operate the BCT as a venue for presentation of BCT programming, and BCTM may, at its sole discretion, produce and promote its own events at the BCT. BCTM shall have the authority to make all scheduling decisions for the BCT, and at its sole discretion, set rental rates for the BCT. BCTM shall keep the City informed regarding its rental rates for the BCT, and shall advise the City of

any proposed change to the rates at least ten (10) business days prior to the effective date of the change.

- vi. The City's logo and/or such other acknowledgement of the City's support that the City deems appropriate, in its sole discretion, shall be displayed in the BCT and on the BCTM website. An announcement of the City's support of the BCT shall be made prior to "BCT presents" performances.
- vii. BCTM shall be solely responsible for obtaining and maintaining any licenses or permits required by any governmental entity in connection with the operation of the BCT. BCTM shall not enter into any contracts or agreements that authorize or allow for violation of any City ordinance.

c. Sale of Alcoholic Beverages:

- i. The City, as owner of the BCT, has obtained on BCTM's behalf an Alcoholic Beverages permit for the premises and shall retain rights to this permit because it has applied for an alcoholic beverage permit (liquor, beer and wine retailer for a Civic Center, license type 219) on behalf of the BCTM pursuant to Indiana Code § 7.1-3-1-25. This permit, granted in 2011 and renewable on an annual basis, is not part of the regular Alcoholic Beverage permits that are granted following a quota system, and can only be obtained when the City applies for it. If granted, such a permit is particular to the circumstances of the location in that the building must be owned by the City, and that it must be open for specific purposes.
- ii. BCTM agrees to be in compliance with all laws, federal, state and local, that apply to this alcoholic beverages permit, which is only to be used at the current BCT Premises. It agrees that its obligations to indemnify the City under this Agreement extend to its actions under the laws applicable to this permit, including, without limitation, any penalties for violations of the permit or its requirements.
- iii. BCTM shall, at its own expense during the duration of this Agreement, maintain liquor liability insurance in compliance with Section 6(h) of this Agreement, and carry the financial cost for application and renewals, or any other expense related to the permit.
- iv. BCTM agrees that, in the event of termination of this Agreement for any reason, or if BCTM determines it cannot or will not start or continue to perform its rights and obligations under the alcoholic beverages permit, BCTM will, at the option of the City exercised in writing, either surrender BCTM's Alcoholic Beverages permit for the BCT's location, or take all necessary or desirable lawful steps requested by the City to transfer the alcoholic beverages permit for the BCT to another prospective permittee to be designated by the City, and approved of by the Indiana Alcohol and Tobacco Commission. Such steps may include, but are not limited to, having BCTM officers and/or directors execute lawful documents at the request of the City. In the event of such surrender or transfer upon termination of this Agreement BCTM will not be entitled to any monetary payment or other compensation for complying with this Agreement.

d. BCTM's Responsibility for Maintenance, Repair and Utilities

- i. BCTM shall keep the BCT premises, including the auditorium, entrances, eastern portion of the storefront retail space, offices, restrooms, and adjacent sidewalks in a clean, safe, and operable condition and in compliance with all applicable statutes and ordinances.
- ii. In the event that BCTM enters into a lease of the western portion of the storefront retail space as described in paragraph 6.a.iii., below, the lease shall require the tenant to maintain the premises in a clean and safe condition and in compliance with all applicable statutes and ordinances. In the event that BCTM does not enter into a lease of the western portion of the storefront retail space, BCTM shall maintain the western portion of the storefront retail space, as required by paragraph 4.d.i., above.
- iii. BCTM shall be responsible and liable for any injury or damage done to the BCT premises by BCTM or BCTM's employees, invitees, or any other occupant or other person whom BCTM permits to be in or about the BCT premises.
- iv. BCTM shall be responsible for maintenance and repair of the interior of the building, as detailed in Exhibit A, Section 1.
- v. BCTM shall be responsible for the repair and maintenance of BCT equipment and furnishings listed in Exhibit B.
- vi. BCTM shall maintain all premises, equipment and furnishings in such condition, order, and repair as the same were in at the commencement of this Agreement or may be installed during the term of this Agreement, reasonable wear and tear excepted. In the event BCTM fails to undertake any repair or maintenance under their responsibility after thirty (30) days' notice in writing from the City, the City may undertake the repair or maintenance, and BCTM shall be obligated to pay within thirty (30) days after invoice the full amount of any such expense paid by the City. The City agrees to reimburse BCTM for unexpected emergency repairs; however, BCTM will make all reasonable efforts to contact City and obtain City approval before commencing the repairs.
- vii. BCTM requests to use Tax Increment Funding shall be compliant, with applicable state law, including Indiana Code 5-22-8 *et seq.* With respect to requests to use Tax Increment Funding, BCTM shall make diligent efforts to follow the City's procurement methods, as set by the City Controller, including—where applicable—obtaining three (3) quotes. Requests for Tax Increment Funding shall include: (1) the names of the persons or companies that provided quotes, (2) the amounts of the quotes, (3) BCTM's preference of quote, and (4) an explanation for BCTM's preference of quote.

- viii. BCTM shall not cause or permit any alterations, additions, or changes of or upon any part of the BCT premises without first obtaining written consent of the City. If any alterations, additions, or changes to the BCT premises are made by BCTM and met with the City's consent under this sub-paragraph, they shall be made at BCTM's expense and in a good and workmanlike manner, in accordance with all applicable laws, and shall become the property of the City as owner of the BCT.
- ix. The City shall provide BCTM with a list of acceptable vendors with which BCTM might contact for emergency and/or after-hours repair. BCTM shall immediately communicate with the Director of Parks and Recreation on the day following the occurrence of emergency repair describing the nature of, and the manner in which BCTM handled, the repair.
- x. BCTM shall pay all bills and charges for water, sanitary and storm sewer, electricity, gas, and other utilities that may be assessed or charged against any occupant of the BCT Premises during the term of this Agreement.
- xi. BCTM shall not permit any lawful mechanic's or other liens to accrue against the BCT Premises by reason of labor, services or materials claimed to have been performed or furnished to or for BCTM. BCTM shall cause any lien filed against the BCT Premises as a result of the action or inaction of BCTM to be discharged and released within ninety (90) days of the date of filing. In the event the lien is not discharged and released within that time period and BCTM continues to desire to contest the lien, BCTM shall post a surety bond or letter of credit in an amount reasonably anticipated to be necessary to satisfy the lien.

e. Organizational Information: BCTM shall share financial information with City.

- i. Once per calendar year, BCTM shall provide financial reports which have been reviewed or audited by a Certified Professional Accountant, as defined by the Financial Standards Accounting Board (FASB). Included with these financial reports shall be the total, end-of-year balances in any and all BCTM financial accounts. Said reports shall be delivered to the City not later than April 15, 2020.
- ii. BCTM shall provide an annual written report of BCT fundraising and operations to the City, which shall be delivered to the City no later than April 15, 2020. The annual report shall be comprehensive and shall address all relevant topics, including, but not limited to, a listing of all programs and events held in the BCT during 2019, income and expenses related to the BCT property for 2019, updates on the preventative maintenance BCTM undertook in 2019, progress reports on fundraising, including the amount of funds received through fundraising, the number of donors of funds, and the steps taken to generate funds.
- iii. BCTM shall provide a copy of its timely filed IRS Form 990, Return of Organization Exempt from Income Tax Form. The Form 990 shall be provided to the City within thirty (30) days of when it is filed with the Internal Revenue Service.

- iv. BCTM will remain compliant with all returns and payments associated with all applicable taxes—including payroll taxes. BCTM will provide the City with a copy of all returns filed with and payments made to all taxing entities within thirty (30) days of filing and payment.
- v. BCTM shall provide a copy of all filings with the Indiana Secretary of State's Office. These filings shall be provided to the City within thirty (30) days of when they are filed with the Indiana Secretary of State's Office.
- vi. The City shall set a meeting after April 15, 2020, and prior to May 30, 2020, for BCTM to present the 2019 annual report to the Administrator of the City's Parks and Recreation Department and to respond to questions. BCTM shall designate at least one voting member of its Board and one staff member to present the report during the City's meeting.
- vii. During the year and in addition to the annual report, BCTM representatives shall provide to the City such information as may be requested by the City concerning BCT operations and events.
- viii. The City may, upon one (1) week's notice, inspect the BCT's books and records maintained by BCTM.
- ix. The City shall have one (1) non-voting representative on the BCTM Board of Directors. The Mayor shall designate this representative, who shall be subject to removal by the Mayor at anytime for any reason.
- x. BCTM shall provide BCT participation data to the City on a quarterly basis to the City no more than fifteen days after the end of each quarter. This data will be used in the Bloomington Parks and Recreation annual report.
- xi. The 2021 BCTM goals will be submitted to the City by July 1, 2020 following the City's format for annual goals.
- xii. The City shall set a partnership evaluation meeting after October 19, 2020, and prior to November 20, 2020, to evaluate the 2020 partnership and prepare the 2021 partnership for City approvals in December 2020.

f. Inventory List and Disposal of Surplus Property:

- i. BCTM shall provide an updated inventory of all equipment and furnishings to the City on or before December 31, 2020. The inventory shall include the funding source or sources for all equipment and furnishings purchased. At the end of this Agreement, prior to renewal, the City shall have the responsibility to conduct an inventory of City owned assets to ensure their presence on-site. BCTM shall be held accountable for any missing City owned assets.
- ii. Any non-fixed BCT assets acquired after March 1, 2020, by BCTM through purchase of its own funds or received via in-kind contribution will be the property of BCTM.

- iii. BCTM shall inform the City when it desires to dispose of Surplus property in writing, and the City shall, at its earliest convenience, comply with disposal of Surplus property policies as provided by statute and the City's Financial Policies Manual (including the Controller and Corporation Counsel's review of the request, and the submission of the request to the appropriate board). Revenue generated by the sale of Surplus property will be credited to the department from which such personal property is sold, pursuant to Bloomington Municipal Code 2.52.020.

5. CITY OF BLOOMINGTON

The goal of the City is to provide entertainment and cultural opportunities to the Bloomington area community, including residents of Monroe County and surrounding counties and visitors. City agrees to provide:

a. Programming and Premises:

- i. The City's one (1) non-voting representative will serve on the BCTM Board of Directors.
- ii. The City, as owner of the BCT, shall retain decision-making authority regarding signage to be affixed to the BCT premises. The City shall also retain the right to display and distribute promotional materials regarding City programs in the lobby of the BCT in such a way that does not interfere with BCTM's use of the BCT and ability to manage and promote events at the BCT.
- iii. Any matters related to the BCT Premises that are not specifically addressed in this Agreement shall be decided by the City pursuant to its authority as owner of the BCT.
- iv. Ownership of the equipment and furnishings inside the building necessary to its functionality as a Theater is as detailed in Exhibit B.
- v. The City will consult with BCTM during the term of this Agreement regarding replacements, upgrades and major repairs to equipment and furnishings; however, all decisions regarding the same shall be made in the City's discretion.
- vi. The City shall be responsible for maintenance and repair of the building and the marquee as detailed in Exhibit A, Section 2 of this Agreement.
- vii. The City shall be responsible for addressing BCTM requests to the City for Tax Increment Funding, as detailed in paragraph 5.b.ii of this Agreement, in a timely manner.
- viii. The City reserves the right to make any structural, roof and major mechanical repairs it deems necessary, and agrees to make all reasonable efforts to work with BCTM in planning and scheduling such repairs as to minimize or avoid interruption of use of the BCT.

- ix. The City or its agent shall have the right to enter upon the BCT Premises to inspect the same during the BCT's business hours, or at any other reasonable time as the parties shall agree.
- x. The City shall have the right to use the BCT, with no rental fee, for up to five (5) days each calendar year, which dates will be coordinated with BCTM in advance. Specific dates for three (3) uses include: Martin Luther King Celebration on January 20, 2020, State of the City on February 20, 2020 and Be More Awards on March 31, 2020. Two (2) additional dates for other City events will be mutually agreed upon by the City and BCTM. A day of use is defined as the time between 8:00 a.m. and 12:00 a.m. (midnight) on the day of the rental. Additional hours may be added to a day of use with BCTM approval.

b. Payments:

- i. The City shall provide Fifty Five Thousand Dollars (\$55,000.00) as Operations Funding for the BCTM, which shall be paid in four (4) quarterly payments of Thirteen Thousand Seven Hundred Fifty Dollars (\$13,750.00).
- ii. The Redevelopment Commission shall provide up to Seventy Four Thousand Dollars (\$74,000.00) from the Consolidated TIF ("Tax Increment Funding"). The Tax Increment Funding may be used only for purposes permitted by Indiana Code § 36-7-14-39. The Tax Increment Funding will only be provided after: (1) BCTM has followed the City's procurement process, as set forth in its Financial Policies Manual, to obtain bids or quotes for a desired purchase, (2) the BCTM has made a request for Tax Increment Funding, (3) the City—through the Director of Parks and Recreation or her designee—has approved the request for Tax Increment Funding, and (4) the Redevelopment Commission has approved the request for Tax Increment Funding via resolution. No Project Review and Approval Form shall be necessary for the expenditure of Tax Increment Funding under this Agreement.

6. TERMS MUTUALLY AGREED TO BY ALL PARTNERS TO THIS AGREEMENT

a. ASSIGNMENT AND LEASING:

- i. BCTM may not assign this Agreement or its obligations under this Agreement.
- ii. Upon the termination of this Agreement, whether such termination shall occur by expiration of the term or in any other manner whatsoever, BCTM agrees to surrender immediate possession of the BCT Premises in the same condition of cleanliness, repair, and sightliness as of the first day of possession under its first Management Agreement, and agrees to clean the BCT Premises thoroughly or, if BCTM should fail to clean the premises thoroughly, to pay the City for the cleaning necessary to restore the premises to such condition, loss by fire or by the elements and reasonable wear and tear excepted. If BCTM shall remain in possession of all or any part of the BCT Premises after expiration of the term of

this Agreement, with the consent of the City, then this Agreement shall continue in effect from month-to-month until terminated in writing by either party.

- iii. BCTM shall have the right to lease or subcontract for management of the western portion of the storefront retail space on Kirkwood Avenue, as provided in this Agreement. Such lease or subcontract shall be subject to the prior consent of the City, but such consent shall not be unreasonably withheld. BCTM acknowledges that a lease of the western portions of the storefront retail space is subject to statutory requirements regarding leasing of municipally-owned property, and includes a duty to get reimbursed for any property taxes associated with such a lease or subcontract, and the terms of and method of procuring any such lease or subcontract must be approved by the Mayor or his designee. Any and all revenues received by BCTM from the management or rental of the western portion of the storefront retail space shall be applied to offset associated costs of management and maintenance of the BCT.

If BCTM and the City's contractual relationship is terminated for any reason during the term of the storefront retail lease or subcontract, the City will honor the remaining term of the storefront retail lease or subcontract. A copy of the storefront retail lease or subcontract shall be provided to the City.

- iv. The City expressly retains the right to lease or contract separately for management of the eastern portion of the retail space along Kirkwood Avenue, but does not anticipate that will happen as long as the existing partnership with Downtown Business Inc., the Monroe County Convention and Visitor's Bureau and BCTM continues.

b. INDEMNIFICATION AND RELEASE

- i. BCTM shall indemnify, defend, and hold the City harmless from any contractual claim, demand, action, liability, or responsibility arising directly or indirectly from its management, operation, occupancy, use, or possession of the BCT under this Agreement. BCTM shall indemnify, defend and hold the City harmless from and against any claim, demand, liability, proceeding, damages, loss, and costs, including attorney's fees, arising from personal injury, death, or property damage connected, directly or indirectly, with this Agreement or BCTM's occupancy, control, or use of the BCT Premises and personal property, including without limitation, any liability that the City might have to any person, including BCTM and any lessee, and/or its employees and invitees, in or about the BCT Premises with the consent, license, or invitation, express or implied, of BCTM or any lessee. BCTM agrees that its obligations to indemnify the City under this Agreement extend to its actions under the laws applicable to its Alcoholic Beverages permit, including, without limitation, any penalties for violations of the permit or its requirements.
- ii. If the City shall, without fault, become a party to litigation commenced by or against BCTM, then BCTM shall indemnify and hold the City harmless from such litigation. The indemnification provided in this paragraph shall include the City's attorney's fees and costs in connection with any such claim, action, or

proceedings. BCTM does hereby release the City from all liability for any accident, damage, or injury caused to person or property on or about the BCT Premises. The City shall remain liable for its own gross negligence and the gross negligence of its agents and employees, and in such case, the indemnification, hold harmless, and release provisions provided herein shall not apply.

- c. **Risk of Loss:** In the event that the BCT Premises sustains damage of any nature, any and all property insurance proceeds arising from the loss shall be applied to restore the BCT Premises. In the event that the BCT Premises are destroyed and cannot be restored within one hundred eighty (180) days, then this Agreement may be terminated by either party without further obligation. All property of BCTM, its agents and employees, kept, stored or maintained within the BCT Premises shall be at BCTM's exclusive risk.
- d. **E-Verify:** Pursuant to Indiana Code § 22-5-1.7-11(a) BCTM shall enroll in and verify the work eligibility status of all newly hired employees through the E-Verify program. BCTM is not required to continue this verification if the E-Verify program no longer exists. BCTM shall sign an affidavit affirming that they participate in the E-Verify program and that they do not currently knowingly employ an unauthorized alien. The affidavit is attached to and incorporated into this Agreement as Exhibit C.
- e. **Nuisance:** BCTM shall not permit any nuisance to be maintained or permitted on the premises, nor any disturbance, noise, or other annoyance that interferes with the reasonable comfort and quiet enjoyment of persons occupying adjacent properties. If BCTM fails to remedy the nuisance, then the City shall have the right to enter on the premises to remedy the nuisance. However, the City's failure to assert its right to remedy a nuisance shall not impose an affirmative duty on the City so that it assumes liability for the nuisance. Regardless of any entry or non-entry onto the premises by the City for the purpose of remedying a nuisance, BCTM shall remain solely liable for any and all liability resulting to any persons from any nuisance maintained or permitted on the premises.
- f. **Firearms Policy:** Pursuant to Indiana Code § 35-47-11.1-4(10), BCTM may develop and implement, at its own discretion, rules of conduct or admission regarding the carrying and storage of firearms, upon which attendance at and participation in its activities is conditioned. BCTM has developed such a policy for its activities, which is incorporated into this Agreement as Exhibit D
- g. **Non-Waiver:** Failure on the part of either the City or BCTM to exercise any right or remedy under this Agreement shall not constitute a waiver thereof as to any default or future default or breach by the other party. No waiver of any default shall be effective unless in writing.
- h. **Insurance:** BCTM shall, at its own expense during the term of this Agreement, maintain in full force and effect for the mutual benefit and protection of both BCTM and the City, as additional insured, General Liability Insurance, in an amount and with an insurance company approved by City, against claims of bodily injury, death, or damage to the property of third parties occurring in or about the BCT premises. The minimum limits of liability of such General Liability Insurance shall be One Million Dollars (\$1,000,000.00) per occurrence, Two Million Dollars (\$2,000,000) in the aggregate, and One Hundred Thousand Dollars (\$100,000.00) with respect to property damage/fire legal liability. BCTM shall, at its own expense during the term of this Agreement, maintain and keep in full force and effect for the mutual benefit and protection of

both BCTM and the City, as additional insured, Fire and Extended Casualty Insurance coverage upon those contents, furnishings, and personal property owned or maintained by BCTM, as indicated in this Agreement or otherwise. BCTM shall provide the City with an All Risk/Special Form regarding such contents, furnishings and personal property. BCTM shall maintain Workers Compensation Insurance in accordance with the statutory requirements of Title 22 of the Indiana Code. BCTM shall provide to the City certificates of insurance evidencing the insurance required pursuant to this paragraph. All policies of insurance on which the City is named as additional insured shall require that the City be provided a minimum of thirty (30) days' notice in writing of any intended cancellation.

In addition, BCTM shall, at its own expense during the duration of this Agreement, maintain liquor liability insurance with an insurance agency approved by the City. BCTM's liquor liability insurance shall name the City as an additional insured. BCTM shall maintain liquor liability insurance with limits no less than One Million Dollars (\$1,000,000) per occurrence and Two Million Dollars (\$2,000,000) in the aggregate. Additionally, BCTM's liquor liability insurance policy shall require that the City be provided at least thirty (30) days' notice in writing of any intended cancellation. BCTM shall provide the City with insurance certificates evidencing the required liquor liability coverage.

- i. Notice:** Notice regarding any significant concerns and/or breaches of this Agreement shall be given to contacts as follows:

To City:

City of Bloomington Legal Department
P.O. Box 100
401 N. Morton Street, Suite 220
Bloomington, IN 47404

To BCTM:

BCT Management, Inc.
Buskirk-Chumley Theater
114 E Kirkwood Ave
Bloomington, Indiana 47408

All notices under this Agreement shall be in writing and shall be delivered personally or sent by Certified Mail, Return Receipt Requested to the above-described addresses, provided that each party by like notice may designate any further or different address to which subsequent notices may be sent.

- j. Termination:** Either party may terminate this Agreement upon giving written notice of the intention to do so six (6) months prior to the intended date of termination.

If BCTM and the City's contractual relationship is terminated for any reason during the term of a rental agreement that BCTM has with a third-party for use of the BCT, the City will honor the remaining term of the rental agreement. A copy of any third-party rental agreement shall be provided to the City.

Upon termination, the City shall have first right of refusal to purchase any BCTM-owned non-fixed assets, as referenced in Section 4(f)(ii) above, for the depreciated net value or a price

mutually agreed upon by the Parties, the proceeds for which purchase shall be the unencumbered property of the BCTM to which the City shall have no claim.

Also upon (1) early termination of this Agreement by BCTM for any reason, or (2) in the event that the BCTM ceases operating the BCT, and to the extent permitted by applicable law, the BCTM shall immediately transfer to the City any remaining cash balances that were accrued by the BCTM as the result of operations and fundraising of the BCT, which shall be used by the City exclusively for (1) reinvestment in the BCT facilities or (2) to offer arts programming substantially similar to programming offered by the BCTM to comport with the goals and intents of the donors and patrons contributing such funds to the BCTM. Such funds shall not be used to procure or pay a new management company. In the event that the BCT has ceased or will thereafter cease operation of the BCT as a performing arts venue, the City shall return such funds to the BCTM for distribution to Bloomington-area arts organizations, provided that such organizations are not successors in interest to the BCTM.

k. Default:

- i. **By City:** If the City should fail to perform any of the covenants, agreements, or conditions of this Agreement, on its part to be kept and performed, and such default is not cured within thirty (30) days after written notice is given to the City by BCTM by Certified Mail Return Receipt Requested setting forth the nature of such default, this Agreement may be terminated by BCTM before expiration of its term. The parties agree to meet within five (5) days after a written notice of default has been given by BCTM and to endeavor to resolve any dispute concerning the alleged default by direct negotiations.
- ii. **By BCTM:** If BCTM should fail to perform any of the covenants, agreements or conditions of this Agreement, on its part to be kept and performed, and such default is not cured within thirty (30) days after written notice is given to BCTM by the City by Certified Mail, Return Receipt Requested setting forth the nature of such default; or if BCTM shall make an assignment for the benefit of creditors; or if the interest of BCTM hereunder shall be sold under execution or other legal process; or if BCTM shall be placed in the hands of a receiver; then, in any of such events, it shall be lawful for the City, without notice or process of law, to enter upon and take possession of the BCT Premises, and thereupon this Agreement and everything herein contained on the part of the City to be done and performed shall cease, terminate, and be utterly void, all at the option of the City; without prejudice, however, to the right of the City to recover from BCTM, and without such action being deemed a surrender of this Agreement or a termination of BCTM's liabilities, undertakings, and responsibilities under this Agreement.

l. Successors: The provisions, covenants and conditions of this Agreement shall bind and inure to the benefit of the legal representatives, successors and permitted assigns of the parties.

m. Choice of Law and Venue: This Agreement shall be governed and construed in accordance with the laws of the State of Indiana. The venue for any legal proceeding instituted under this Agreement shall be Monroe County, Indiana.

IN WITNESS WHEREOF, the parties have signed this Agreement on the date first set forth.

CITY OF BLOOMINGTON, INDIANA

By: _____
Alex Crowley, Director
Economic & Sustainable Development

By: _____
Philippa M. Guthrie, Corporation Counsel

REDEVELOPMENT COMMISSION

By: _____
Donald Griffin, President

BOARD OF PUBLIC WORKS

By: _____
Kyla Cox Deckard, President

BCT MANAGEMENT, INC.

By: _____
Ilene Schaeffer, President

BOARD OF PARK COMMISSIONERS

By: _____
Kathleen Mills, President

EXHIBIT A

1. BCT Management, Inc. (BCTM) shall be responsible for:
 - Repair and maintenance building interior, including but not limited to, e.g., walls, floors, floor coverings, ceilings, plumbing fixtures, flush valves, toilet paper dispensers, paper towel dispensers, soap dispensers, water fountains, lighting fixtures, railings, interior doors, interior door glass, locks, keys, and hardware
 - Repair and maintenance of all stage equipment and soft goods
 - Repair and maintenance of theater seats, free-standing chairs, tables, desks, counters, and other furniture
 - Repair and maintenance of the Theater's mechanical systems– electrical, plumbing, and HVAC (including annual service contract for HVAC system)
 - Repair and maintenance of the Theater's fire alarm and sprinkler system, (including annual service contract for the alarm system) and fire extinguishers
 - Repair, maintenance, replacement and purchase of BCTM – owned office equipment and furniture necessary for BCTM business operation, not directly related to BCT's operation as a Theater, and not intended for City ownership
 - Repair and maintenance of the western portion of the storefront retail space, including the mechanical systems (electrical, plumbing, and HVAC) associated with that space.
 - An annual report on such repair and maintenance as well as preventative maintenance

2. The City of Bloomington shall be responsible for:
 - Repairs and maintenance of the Theater's exterior structure, including doors, door locks, windows and window locks (where applicable)
 - Repairs and maintenance of the Marquee
 - Replacement of mechanical systems (electrical, plumbing, and HVAC)
 - Replacement of fire alarm and sprinkler systems
 - Replacement of existing City property within BCT – floors, floor covering, fixed seats, free-standing seats, sound system, lighting system, microphones, box office equipment, soft goods, rigging, stage extension, piano, and any other items listed on the property and equipment inventory

EXHIBIT B

[BCT Equipment and Facility Item List as of October 1, 2019.](#)

[Printed PDF File to be Included with Final Contract]

EXHIBIT C

STATE OF INDIANA)
)
COUNTY OF MONROE)

AFFIDAVIT

The undersigned, being duly sworn, hereby affirms and says that:

1. The undersigned is the _____ of _____.
(job title) (company name)
2. BCT Management, Inc., employer of the undersigned, has contracted with the City of Bloomington to provide services;
3. BCT Management, Inc., employer of the undersigned, is enrolled in and participates in the State of Indiana E-Verify program.
4. The undersigned is authorized by his/her employer, BCT Management, Inc., to sign affidavits on its behalf.
5. The undersigned states that, to the best of his/her knowledge and belief, BCT Management, Inc. does not knowingly employ an “unauthorized alien,” as defined at 8 U.S.C. § 1324a. (h)(3), and, BCT Management, Inc. is enrolled and participating in E-verify to check the eligibility status of all its newly hired employees, and requires the same from its sub-contractors who work under this Agreement.

Signature

Date

Printed name

STATE OF INDIANA)
)
COUNTY OF MONROE)

Before me, a Notary Public in and for said County and State, personally appeared _____ and acknowledged the execution of the foregoing this ____ day of _____, 2020.

Signature of Notary Public

Printed Name of Notary Public

County of Residence: _____

My Commission Expires: _____

EXHIBIT D

BCTM Firearms Policy

BCTM does not standardly restrict firearms and other weapons from the Buskirk-Chumley Theater. However, any presenter partner and/or a performing artist may request that firearms and other weapons be prohibited from the venue, provided the presenter partner and/or performing artist is willing to compensate BCTM for the cost of hiring security to enforce the prohibition.



Board of Public Works Staff Report

Project/Event: Request to Accept Public Improvements
Associated with Patterson Park Phase 3

Staff Representative: Sara Gomez

Petitioner/Representative: Patterson Pointe LLC/Tim Tichenor

Date: 3/03/2020

Report: Tim Tichenor has requested to have public improvements associated with Patterson Park Phase 3 accepted by the City. The public improvements are sidewalks, curbs, street trees, street name/stop signs, and curb ramps located along the two streets being accepted into City inventory, Westplex Avenue 57' wide and 0.069 miles in length between Isaac Dr and W 3rd St, and Dolimah Drive 57' wide 0.053 miles in length between Isaac Dr and Milieu Dr. Acceptance of these public improvements will initiate the following city services performed by Public Works, sign maintenance, plowing, salting and paving. Street Tree maintenance will be Parks and Recreation, with 27 new street trees. City of Bloomington Utilities has inspected and accepted the infrastructure they will maintain and Planning staff has no outstanding items for the developer to address. Parking and sanitation services will not be needed for this new development.

Tim Tichenor has supplied a \$13,000.00 maintenance bond for the public improvements that extends until 2021.

Bloomington Municipal Code 20.09.330 states that public improvements that have been inspected and approved by the Planning and Transportation Department require acceptance by the Board of Public Works before becoming part of the city's street inventory.

Recommendation and Supporting Justification: Planning and Transportation staff have inspected the public improvements and recommend acceptance.

Recommend **Approval** **Denial by**

Sara Gomez



City of Bloomington
Planning and Transportation Department

Certificate of Final Acceptance - Application

Application:

Public Improvement Project Location (Name on plat): Patterson Park Phase 3

Public Improvement Project Description: WestPlex Ave. Dolimah Ave, Sidewalks

Developer: Patterson Pointe ventures, LLC

General Contractor: Gilliatte General Contractors

Relevant Instrument Number(s): 2019007286

Date of Substantial Completion of Public Improvement Project: 5/30/2019

Applicant's Name: Timothy Tichenor

Applicant's Title: Managing Member

Applicant's Agency: Patterson Pointe Ventures, LLC

Date of Application for Final Acceptance: 2/3/2020

By signing below, the Applicant does hereby certify that as of the above Date of Application for Final Acceptance, the said Project meets all of the requirements for Final Acceptance according to Bloomington Municipal Code. The applicant further certifies that the completed public improvements: are in compliance with the design standards of Chapter 20.07, Design Standards of Bloomington Municipal Code; have been constructed in accordance with City of Bloomington Planning and Transportation Department requirements; and have been installed in accordance with the approved plans.

Timothy Tichenor

Applicant's Signature

2-3-20

Date



Cincinnati
8044 Montgomery Rd, Suite 150E
Cincinnati, Ohio 45236
+1 (513) 984-2222 Fax: +1 (866) 548-6645

Continuation Certificate

To be attached to and form a part of surety bond number LSF234322 (the "Bond"), cross reference bond number 5045500 for Right of Way, Excavation and Public Improvements dated the 9th day of February, 2009, in the penal sum of 13,300 USD issued by The Ohio Casualty Insurance Company as surety (the "Surety"), on behalf of PATTERSON POINT LLC as principal (the "Principal"), in favor of City of Bloomington, as obligee (the "Obligee").

The Surety hereby certifies that this Bond is continued in full force and effect until the 9th day of February, 2021, subject to all covenants and conditions of said Bond.

Said Bond has been continued in force upon the express condition that the full extent of the Surety's liability under said Bond, and this and all continuations thereof, for any loss or series of losses occurring during the entire time the Surety remains on said Bond, shall in no event, either individually or in the aggregate, exceed the penal sum of the Bond.

IN WITNESS WHEREOF, the Surety has set its hand and seal this 11th day of November, 2019.

The Ohio Casualty Insurance Company
(Surety)

By: Timothy A. Mikolajewski
Timothy A. Mikolajewski, Assistant Secretary





City of Bloomington
Planning and Transportation Department

Certificate of Final Acceptance - Inspection and Recommendation

Inspection

Signing of this portion of this form shall certify that the public improvements within the public right-of-way contained in this Project have been visually inspected by representatives of the City of Bloomington Planning and Transportation Department, that public improvements within the public right-of-way appear to have been installed in accordance with appropriate specifications, and that aforementioned representatives take no exception with the installation. Additional inspection reports may be included with this document. A two year performance surety for the public improvements shall be in effect and shall not terminate until a period of two years after the date of substantial completion of the public improvements.

Recommendation

- Acceptance of Public Improvements by City of Bloomington Board of Public Works and Release of Performance Surety. (A performance surety in an amount equal to the greater of 10% of the original surety or \$10,000 shall be maintained for two years from the date of substantial completion.)
- Extension of Performance Surety. (Attach list of deficiencies including timeline for remediation.)
- Declaration that Performance Surety is in Default.

Development Services Representative:

Signature: Jackie Scanlan

Date: 3/11/2020

Printed Name: Jackie Scanlan

Title: Development Services Manager

Transportation and Traffic Services Representative:

Signature: Sara Gomez

Date: 2/27/2020

Printed Name: SARA GOMEZ

Title: PUBLIC IMPROVEMENTS MANAGER



**City of Bloomington
Planning and Transportation Department**

Certificate of Final Acceptance

WHEREAS, the completed public improvements within the public right-of-way do appear to comply with the design standards of Chapter 20.07, Design Standards of the Bloomington Municipal Code, and do appear to have been constructed in accordance with City of Bloomington Planning and Transportation Department requirements; and

WHEREAS, the completed public improvements within the public right-of-way appear to have been installed in accordance with the approved plans; and

WHEREAS, a performance surety in an amount equal to the greater of 10% of the original surety or \$10,000 shall be maintained for two years from the date of substantial completion of the public improvements.

NOW, THEREFORE, upon the recommendation of the Planning and Transportation Department, the public improvements within the public right-of-way are hereby accepted by the City of Bloomington Board of Public Works.

Signature: _____ Date: _____

Printed Name: _____ Title: _____

Signature: _____ Date: _____

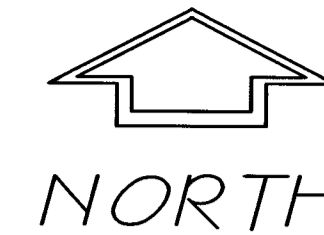
Printed Name: _____ Title: _____

Signature: _____ Date: _____

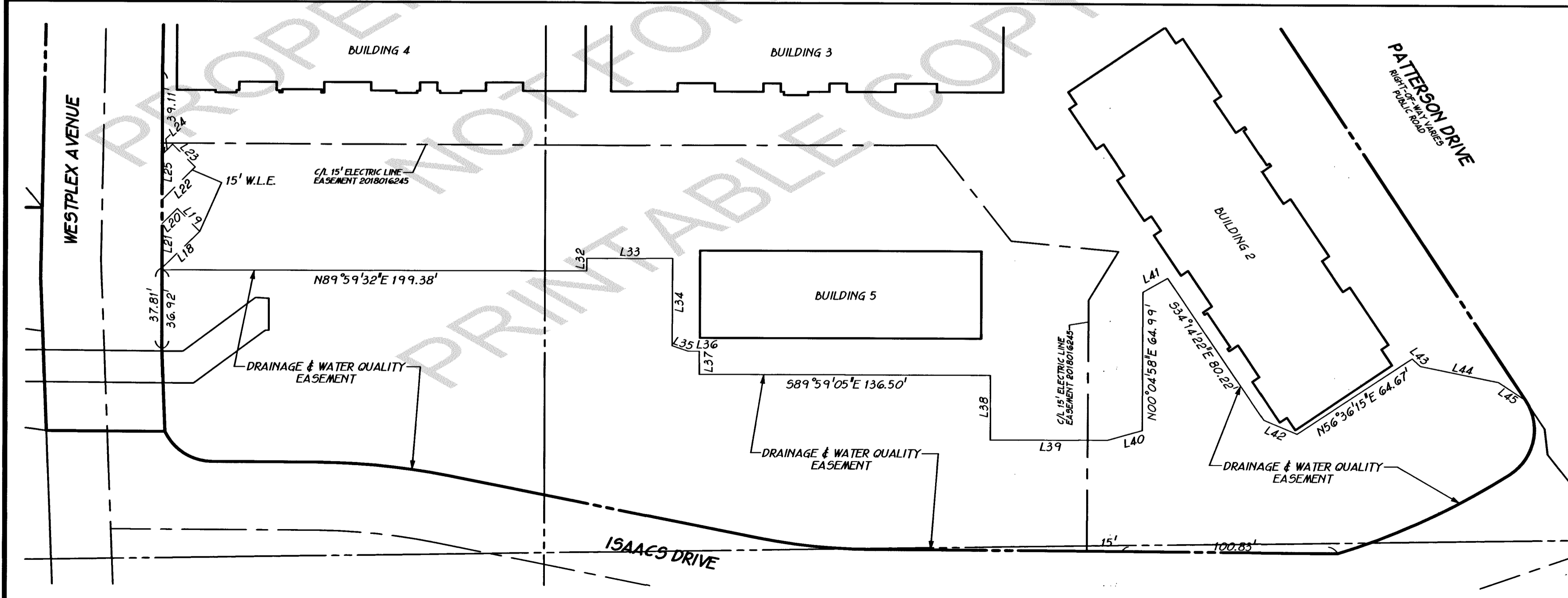
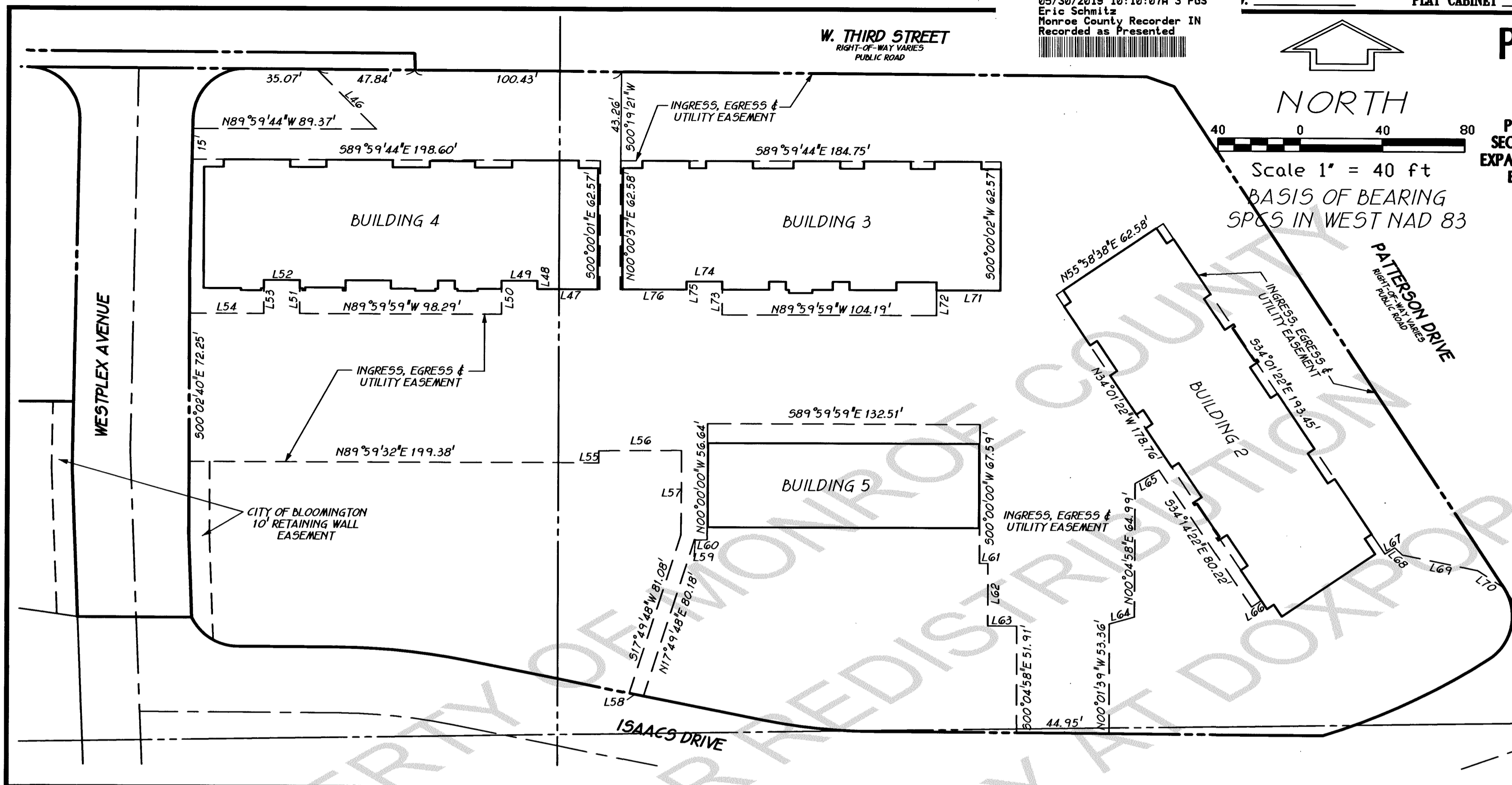
Printed Name: _____ Title: _____

PATTERSON PARK PHASE 3

PART OF SEMINARY LOTS 139, 140, 141 & 142
 SECTION 5, T 8 N, R 1 W & PATTERSON POINT
 EXPANSION & AMENDMENT 2 & PATTERSON POINT
 EXPANSION & AMENDMENT 2 - LOTS 2 & 4
 AMENDMENT 3



Scale 1" = 40 ft
 BASIS OF BEARING
 SPCS IN WEST NAD 83



NUMBER	DIRECTION	DISTANCE
L18	N45°51'20"E	24.59'
L19	N44°08'40"W	15.00'
L20	S45°51'20"W	10.05'
L21	S00°02'40"E	20.89'
L22	N44°53'34"E	21.89'
L23	N45°06'26"W	15.00'
L24	S44°53'34"W	6.86'
L25	S00°02'40"E	21.24'
L26	N20°22'20"E	11.40'
L27	N00°10'40"W	9.57'
L28	N00°17'34"W	44.13'
L29	S00°03'44"W	15.00'
L30	S00°17'34"E	35.28'
L31	S40°10'33"E	11.52'
L32	N00°00'01"E	5.93'
L33	N89°44'05"E	40.09'
L34	S00°10'37"W	41.01'
L35	S71°23'49"E	8.01'
L36	N89°35'46"E	5.15'
L37	S00°22'52"E	10.92'
L38	S00°07'44"E	30.42'
L39	N89°52'16"E	55.05'
L40	N74°01'36"E	16.85'
L41	N60°26'07"E	13.30'
L42	S67°15'20"E	16.79'
L43	S46°47'26"E	5.23'
L44	S78°34'23"E	37.41'
L45	S56°35'46"E	15.26'
L46	S45°00'00"E	41.13'
L47	S90°00'00"W	30.30'
L48	N00°00'00"E	3.96'
L49	N90°00'00"W	17.43'
L50	S00°00'00"W	16.22'
L51	N00°00'00"E	16.22'
L52	N90°00'00"W	17.44'
L53	S00°00'00"W	16.22'
L54	N89°59'59"W	36.11'
L55	N00°00'01"E	5.93'
L56	N89°44'05"E	40.09'
L57	S00°10'37"W	41.01'
L58	S78°47'29"E	7.05'
L59	S71°23'49"E	1.01'
L60	N89°35'46"E	5.15'
L61	S89°59'05"E	4.06'
L62	S00°07'44"E	30.42'
L63	N89°52'16"E	14.08'
L64	N74°01'36"E	12.66'
L65	N60°26'07"E	13.30'
L66	N55°58'38"E	5.62'
L67	N56°36'15"E	5.66'
L68	S46°47'26"E	5.23'
L69	S78°34'23"E	37.41'
L70	S56°35'46"E	15.26'
L71	N89°59'52"W	31.10'
L72	S00°00'00"W	12.24'
L73	N00°00'00"E	16.20'
L74	S89°59'55"W	17.40'
L75	S00°00'00"W	3.96'
L76	N89°59'59"W	32.07'

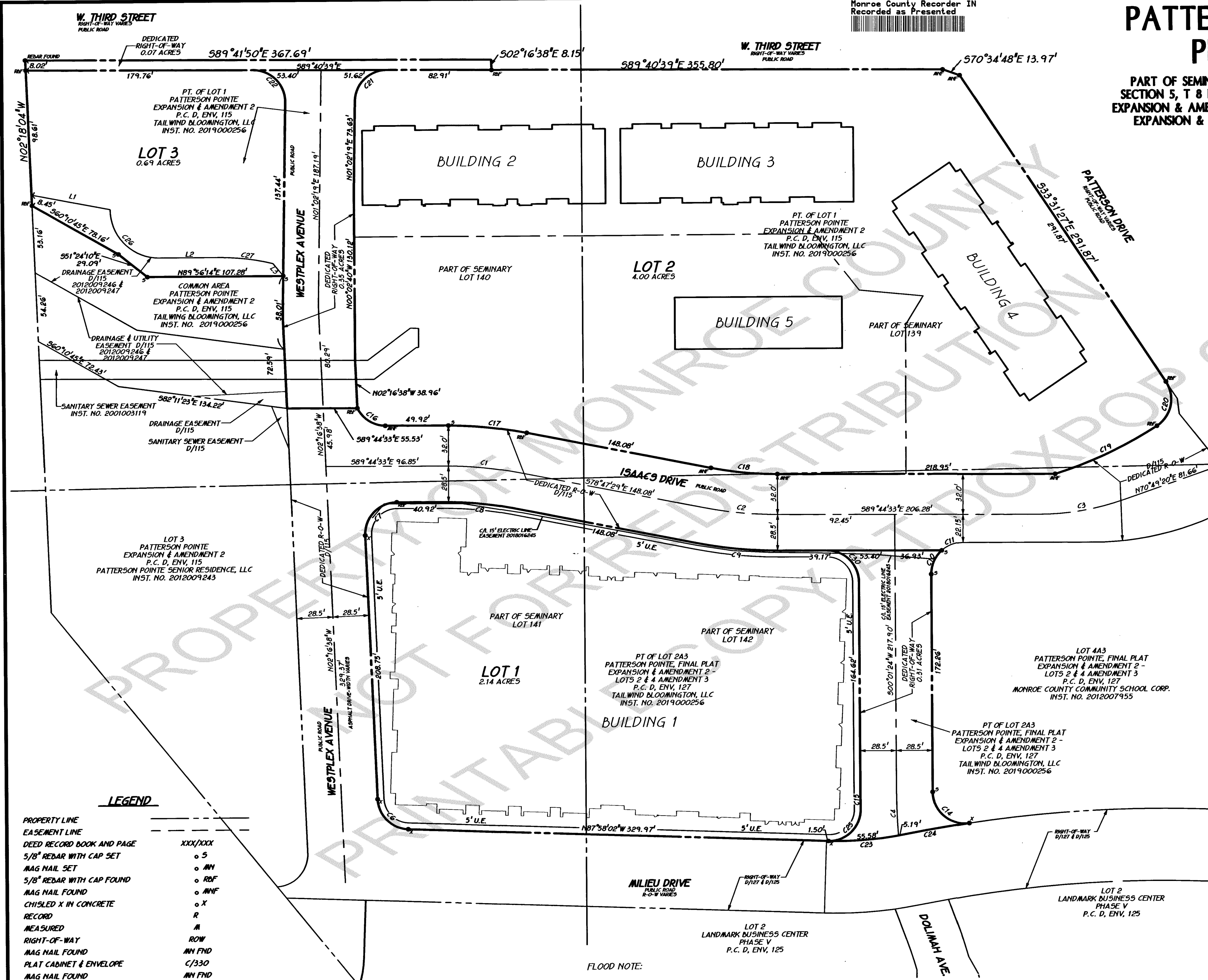
WATER, ELECTRIC, DRAINAGE, WATER
 QUALITY, INGRESS, EGRESS & UTILITY
 EASEMENT DETAILS
 PATTERSON PARK
 PHASE THREE
 FINAL PLAT
 DATE: AUGUST 10, 2018
 SHEET 2 OF 3
 JOB NO. 5017008

PATTERSON PARK PHASE 3

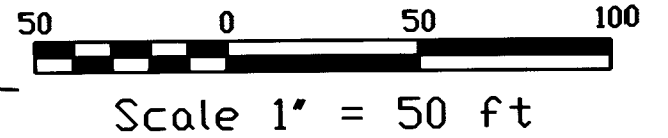
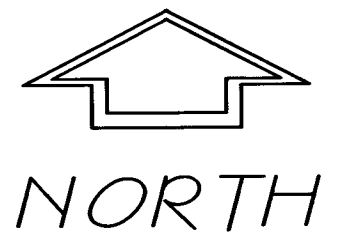
PART OF SEMINARY LOTS 139, 140, 141 & 142
 SECTION 5, T 8 N, R 1 W & PATTERSON POINT
 EXPANSION & AMENDMENT 2 & PATTERSON POINT
 EXPANSION & AMENDMENT 2 - LOTS 2 & 4
 AMENDMENT 3

DULY ENTERED FOR TAXATION
 MAY 30 2019

Catherine Smith
 Auditor Monroe County, Indiana



NUMBER	DIRECTION	DISTANCE
L1	S79°01'24"E	62.97'
L2	N89°56'14"E	47.25'
L3	S39°20'35"E	12.62'



LEGEND

PROPERTY LINE	---
EASEMENT LINE	---
DEED RECORD BOOK AND PAGE	XXX/XXX
5/8" REDBAR WITH CAP SET	○ S
MAG NAIL SET	○ MN
5/8" REDBAR WITH CAP FOUND	○ RBF
MAG NAIL FOUND	○ MNF
CHISELED X IN CONCRETE	○ X
RECORD	R
MEASURED	M
RIGHT-OF-WAY	ROW
MAG NAIL FOUND	MN FND
PLAT CABINET & ENVELOPE	C/330
MAG NAIL FOUND	MN FND

I affirm under penalties of perjury, that I have taken reasonable care to redact each social security number in this document, unless required by law.
 Charles D. Graham
 This instrument prepared by Charles D. Graham

FLOOD NOTE:
 According to the Flood Insurance Rate Map (FIRM) having Number 18105C0141D and an Effective Date of December 17, 2010, subject Property is not in a special flood hazard area.
 Source: FEMA

OVERALL BOUNDARY
 PATTERSON PARK
 PHASE THREE
 FINAL PLAT
 DATE: AUGUST 10, 2018
 SHEET 1 OF 3
 JOB NO. 5017008

2019007286 SPL \$35.00
05/30/2019 10:10:07A 3 PGS
Eric Schmitz
Monroe County Recorder IN
Recorded as Presented

PATTERSON PARK PHASE 3

PART OF SEMINARY LOTS 139, 140, 141 & 142
SECTION 5, T 8 N, R 1 W & PATTERSON POINTE
EXPANSION & AMENDMENT 2 & PATTERSON POINTE
EXPANSION & AMENDMENT 2 - LOTS 2 & 4
AMENDMENT 3

SOURCE OF TITLE: Instrument Number 2019000256

OWNERS: TAILWIND BLOOMINGTON, LLC

ZONING: PUD - PLANNED UNIT DEVELOPMENT

LEGAL DESCRIPTION

Lot 1 Patterson Pointe Expansion & Amendment 2, as shown by the plat recorded in Plat Cabinet D, envelope 115 in the office of the Recorder of Monroe County, Indiana.

Also Lot 2A3 Patterson Pointe Final Plat Expansion & Amendment 2 - Lots 2 & 4 Amendment 3, as shown by the plat recorded in Plat Cabinet D, envelope 127 in the office of the Recorder of Monroe County, Indiana.

EASEMENT LEGEND

UE = Utility Easement

(A) Shall allow both private and public utility providers access associated with the installation, maintenance, repair, or removal of utility facilities.

(B) Prohibits the placement of any unauthorized obstructions within the easement area.

DE = Drainage Easement

(A) Shall be required for any surface swales or other minor improvements that are intended for maintenance by the lots on which they are located.

(B) Shall prohibit any alteration within the easement that would hinder or redirect flow.

(C) Shall provide that the owner of the lot on which the easement is placed shall be responsible for maintenance of the drainage features within such easement.

(D) Shall be enforceable by the City Utilities Department and by owners of properties that are adversely affected by conditions within the easement.

(E) Shall allow the City Utilities Department to enter upon the easement for the purpose of maintenance, to charge the cost of such maintenance to the responsible parties, to construct drainage facilities within the easement, and to assume responsibility for the drainage features at its discretion.

W.L.E. = Waterline Easement.

(A) Shall allow the city utilities department exclusive access for installation, maintenance, repair, or removal of potable water facilities.

(B) Encroachment by other utilities is prohibited, unless such encroachment is approved by the city utilities department in conjunction with the preliminary plat. Upon written permission from the city utilities department, encroachments may be permitted after the recording of the final plat.

(C) Trees and structures including, but not limited to, buildings, fences, retaining walls, signs, and light fixtures, shall not be located within waterline easements.

(D) Grading activity shall be prohibited within waterline easements without written permission from the city utilities department.

(E) Signs shall not be located within waterline easements unless the sign is a public sign authorized by Section 20.05.079(f)(1) or is further authorized by the city.

Retaining Wall Easement

(A) Shall allow the city and its contractors exclusive access for the inspection and repair to the Owners retaining walls

(B) The Owner agrees that they shall maintain the retaining wall as necessary to ensure adequate support of the adjacent public sidewalk and road.

(C) In the event that the Owner fails to adequately maintain the retaining wall the City may conduct any repairs it deems necessary.

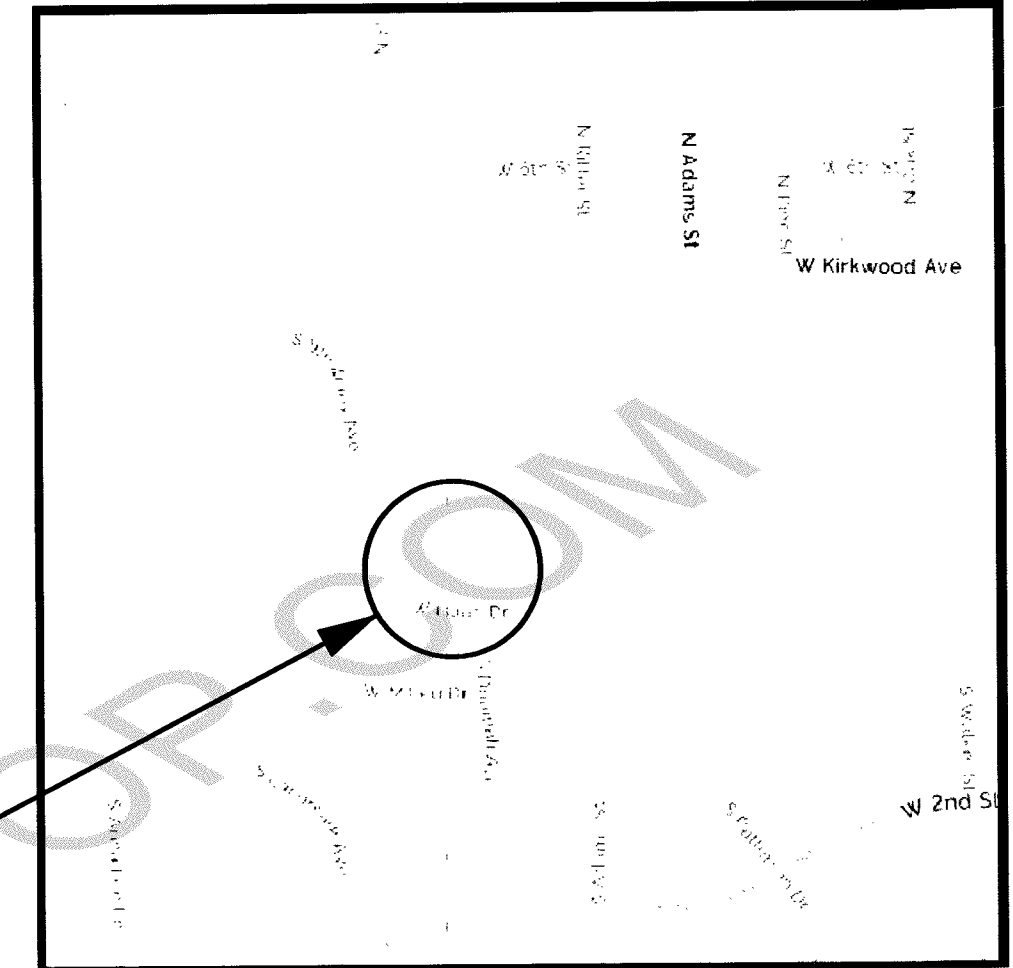
(D) All repairs and maintenance to the retaining walls shall be the responsibility of the Owner and executed at the Owners expense.

CERTIFICATE OF SURVEYOR

I, Charles D. Graham, hereby certify that I am a professional Land Surveyor licensed in compliance with the laws of the State of Indiana; that this plat correctly represents a survey completed by me on August 15, 2018; that all the monuments shown thereon actually exist; and that their location, size, type, and material are accurately shown.

Charles D. Graham
August 15, 2018

Charles D. Graham
Indiana L.S. 29500014
within the State of Indiana
Bynum Fanyo & Associates, Inc.
528 N. Walnut St.
Bloomington, IN 47404
812-332-8030 tel
812-339-2990 fax
jflloyd@bynumfanyo.com



PROJECT LOCATION

LOCATION MAP

NUMBER	DELTA ANGLE	RADIUS	ARC LENGTH	CHORD DIRECTION	CHORD LENGTH
C1	10°57'04"	292.00	55.81	S84°16'01"E	55.73
C2	10°57'04"	308.00	58.87	S84°16'01"E	58.78
C3	19°26'07"	200.00	67.84	N80°32'23"E	67.52
C4	04°08'19"	500.00	36.12	S02°02'46"E	36.11
C6	85°41'24"	25.00	37.39	N45°07'20"W	34.00
C7	92°32'45"	25.00	40.38	N43°59'44"E	36.13
C8	10°57'04"	263.50	50.36	S84°16'01"E	50.29
C9	10°57'04"	336.50	64.32	S84°16'01"E	64.22
C10	48°28'20"	25.00	21.15	N24°15'34"E	20.52
C11	41°45'43"	25.00	18.22	N69°22'35"E	17.82
C14	98°16'00"	25.00	42.88	S49°06'36"E	37.81
C15	01°34'00"	528.50	14.45	N00°45'36"W	14.45
C16	62°41'04"	25.00	27.35	S57°20'35"E	26.01
C17	10°57'04"	324.00	61.93	S84°16'01"E	61.83
C18	10°57'04"	276.00	52.75	S84°16'01"E	52.67
C19	15°32'20"	328.61	89.12	N65°06'25"E	88.85
C20	90°51'42"	25.00	39.65	N11°54'24"E	35.62
C21	89°17'02"	25.00	38.96	N45°40'50"E	35.13
C22	90°42'58"	25.00	39.58	N44°19'10"W	35.58
C23	13°08'28"	271.50	62.27	S85°27'44"W	62.13
C24	02°51'54"	1028.50	51.43	N80°19'27"E	51.42
C25	93°15'34"	25.00	40.69	S45°05'11"W	36.35
C26	90°00'21"	38.50	60.48	S45°03'46"E	54.45
C27	13°33'30"	181.50	42.95	S83°17'03"E	42.85
C30	89°45'57"	25.00	39.17	S44°51'35"E	35.28

The undersigned, as owners of the real estate described on this plat, for and in consideration of the City of Bloomington, Indiana, granting to the undersigned the right to tap into and connect to the sewer system of the City of Bloomington for the purpose of providing sewer service to the described real estate, now release the right of the undersigned as owners of the platted real estate and their successors in title to remonstrate against any pending or future annexation by the City of Bloomington, Indiana, of such platted real estate.

TAILWIND BLOOMINGTON, LLC, the owners of the real estate shown and described herein, do hereby lay off, plat, and subdivide said real estate in accordance with the within plat.

This subdivision shall be known and designated as PATTERSON PARK PHASE 3, an addition to the City of Bloomington. All additional road rights-of-way shown and not previously dedicated are hereby dedicated to public use.

The strips of ground that are shown on the plat and marked "easement" are owned by the owners of the lots that they respectively affect, subject to the rights of public utilities for the installation and maintenance of water and sewer mains, poles, ducts, lines, and wires. Buildings or other structures shall not be erected or maintained on these strips.

This subdivision shall be subject to the Declaration Of Covenants, Conditions, and Restrictions as set forth in Instrument Number 2017004323 in the Office of the Recorder of Monroe County, Indiana.

Signed and Sealed April 12th, 2019.

Kyle Smith
Signature
Name Printed

Tailwind Group
Office
Tailwind Bloomington, LLC

STATE OF Minnesota
COUNTY OF Blue Earth



Before me, the undersigned Notary Public, in and for the said county and state, personally appeared Kyle Smith, and acknowledged the execution of the foregoing for the purposes therein expressed.

Witness my hand and notarial seal this 12th day of April, 2019.

Blue Earth
County of Residence

January 31, 2024
Commission expiration

Kristin Moorhouse
Notary Public, Signature

Kristin Moorhouse
Notary Public, Printed

CERTIFICATE OF APPROVAL

PLAT COMMITTEE AND BOARD OF PUBLIC WORKS

Under the authority provided by Chapter 174, Acts of 1947, enacted by the General Assembly of the State of Indiana and Ordinance adopted by the Common Council of the City of Bloomington Indiana, this plat, and acceptance of right-of-way dedication, was given approval by the City of Bloomington, as follows:

Approved by the City at a Plat Committee meeting held December 10, 2018.

Approved by the City board of Public Works meeting held April 2, 2019.

Tom Bate
Director of Planning and Transportation

Keith
Chairman Plat Committee

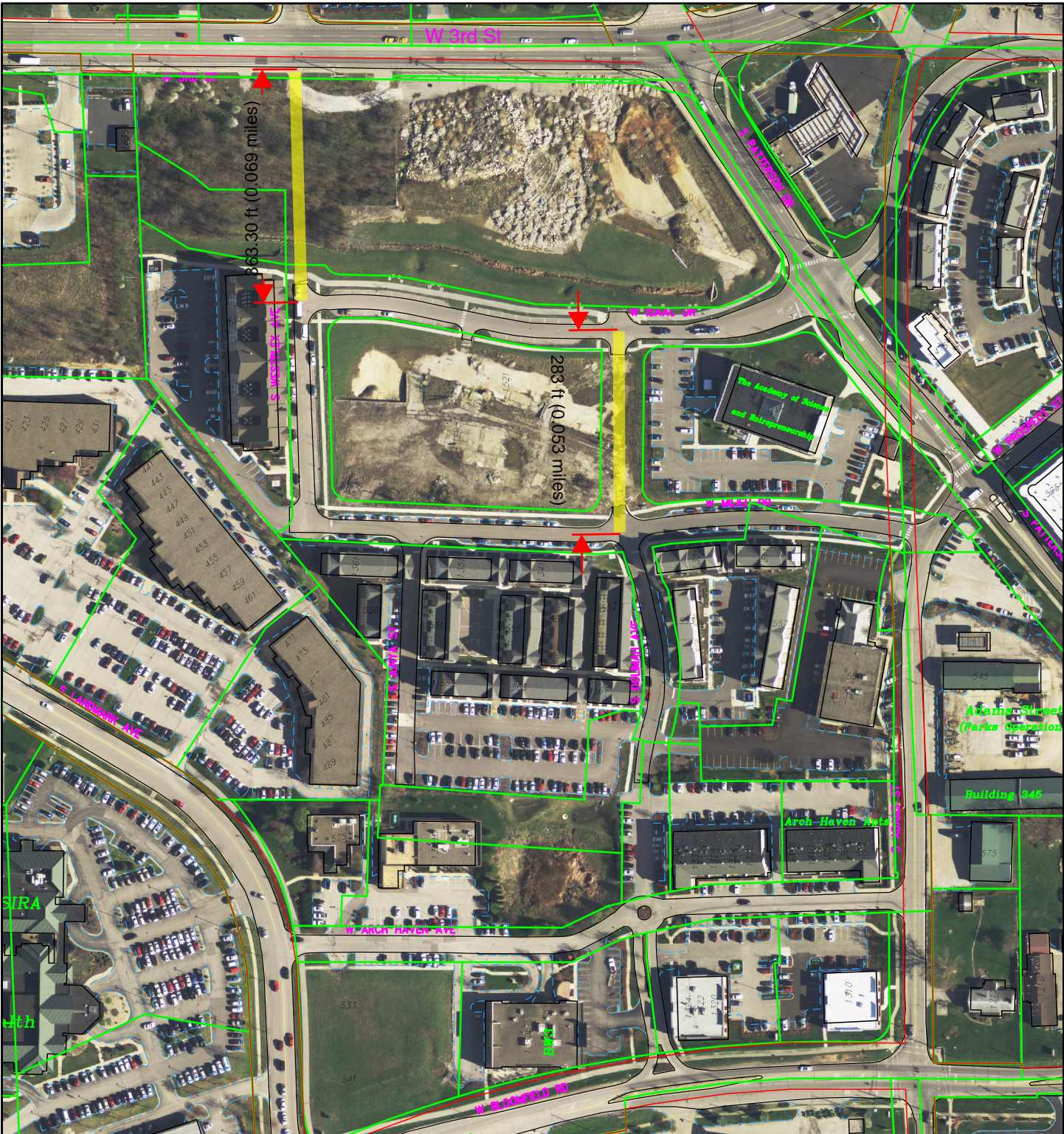
Beth
Member Board of Public Works

Dana Palampro
Member Board of Public Works

BUILDING ADDRESS

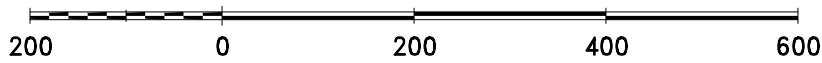
BUILDING 1.....1550 W. ISAAC DRIVE
BUILDING 2.....340 S. PATTERSON DR.
BUILDING 3.....1555 W. 3RD STREET
BUILDING 4.....1601 W. 3RD STREET
BUILDING 5.....1521 W. ISAAC DRIVE

PATTERSON PARK
PHASE THREE
FINAL PLAT
DATE: AUGUST 10, 2018
SHEET 3 OF 3
JOB NO. 5017008

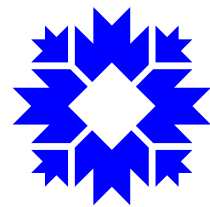


Patterson Pointe Phase 3
 Westplex Ave (0.069 miles)
 Dolimah Dr (0.053 miles)
 Public Improvement and Street Acceptance into City Inventory

By: gomez
 24 Feb 20



City of Bloomington
 Planning & Transportation



Scale: 1" = 200'

For reference only; map information NOT warranted.



Board of Public Works Staff Report

Project/Event: Approval of the Contract for Construction Inspection Services with HWC Engineering for the Adams Street Sidewalk and Intersection Improvements Project

Petitioner/Representative: Planning and Transportation Department

Staff Representative: Neil Kopper, Senior Project Engineer

Date: 3/31/2020

Report: This project will include construction of a sidewalk along the east side of Adams Street from Patterson Drive to Kirkwood Avenue. It will also replace the traffic signal equipment at the intersection of Adams Street and Kirkwood Avenue and make other geometric modifications along Adams Street including installation of physically protected bicycle lanes.

HWC Engineering was selected from 3 engineering firms that responded to an RFI to perform construction inspection for this project. Compensation for these services is set at a not-to-exceed amount of \$106,701.

Recommendation and Supporting Justification: Staff recommends that the Board approve the Contract for Construction Inspection Services with HWC Engineering for the Adams Street Sidewalk and Intersection Improvements Project.

Recommend **Approval** **Denial** by Neil Kopper

<u>BPW Project Approvals Timeline</u>		
<u>Approval Type</u>	<u>Status</u>	<u>Date</u>
Funding Approval	N/A	--
Design Services Contract	Approved	12/12/2017
ROW Services Contract	N/A	--
Public Need Resolution	N/A	--
Construction Inspection Contract	Current Item	3/31/2020
Construction Contract	Approved	12/10/2019

PROJECT NAME: Adams Street Sidewalk and Intersection Improvements Project

AGREEMENT FOR CONSULTING SERVICES

This Agreement, entered into on this _____ day of _____, 2020, by and between the City of Bloomington Planning and Transportation Department through the Board of Public Works (hereinafter referred to as "Board"), and HWC Engineering, Inc. (hereinafter referred to as "Consultant"),

WITNESSETH:

WHEREAS, the Board wishes to enhance the services it provides by engaging in efforts to resurface asphalt roadways, install new concrete sidewalk, install new bicycle lanes, and replace a traffic signal; and

WHEREAS, the project areas are better described as follows:

Adams Street – Kirkwood Avenue to Patterson Drive

Signal Improvements – At the intersection of Kirkwood Avenue and Adams Street; and

WHEREAS, the Board requires the services of a professional engineering consultant in order to perform tasks including construction inspection, which shall be hereinafter referred to as "the Services"; and

WHEREAS, it is in the public interest that such Services be undertaken and performed; and

WHEREAS, Consultant is willing and able to provide such Services to the Board;

NOW, THEREFORE, in consideration of the mutual covenants herein contained, the parties hereto agree as follows:

Article 1. Scope of Services: Consultant shall provide construction inspection services for the reconstruction of Adams Street in the areas noted above. These inspection services shall include the observation of work performed, material and pay items tracking, preparation of contractor pay estimates and change orders, ensuring general conformance with the plans and specifications, hosting bi-weekly progress meetings, and other miscellaneous construction inspection duties. The tasks associated with this work, and assumptions that are applicable to those tasks, are set forth in Exhibit A, Scope of Work and Fee Estimate. Exhibit A is attached hereto and incorporated herein by reference as though fully set forth.

Consultant shall diligently pursue its work under this Agreement and shall complete the Services as described in Exhibit A in a timely manner. Consultant shall perform all Services as

expeditiously as is consistent with professional skill and care and the orderly progress of the work.

In the performance of Consultant's work, Consultant agrees to maintain such coordination with the Board as may be requested and desirable, including primary coordination with the Planning and Transportation Department officials designated by the Board as project coordinator(s).

Consultant agrees that any information or documents, including digital GIS information, supplied by the Board pursuant to Article 3, below, shall be used by Consultant for this project only, and shall not be reused or reassigned for any purpose.

Article 2. Standard of Care: Consultant shall perform all services under this Agreement in a skillful and competent manner in accordance with normally accepted standards of the architectural and engineering professions and with that degree of care and skill which a professional engineer or architect would exercise under the same or similar circumstance.

Article 3. Responsibilities of the Board: The Board shall have the following responsibilities under this Agreement and shall meet these responsibilities in a timely manner so as not to delay the orderly progress of the Services, and Consultant shall be entitled to rely upon the accuracy and completeness of information supplied by the Board:

A. Information/Reports

Provide Consultant with reports, studies, site characterizations, regulatory decisions and similar information relating to the Services that Consultant may rely upon without independent verification unless specifically identified as requiring such verification.

B. Representative

The Board hereby designates Neil Kopper, Project Engineer, Department of Planning and Transportation ("Kopper"), to serve as the Board's representative for the project. Kopper shall have the authority to transmit instructions, receive information, interpret and define the Board's requirements and make decisions with respect to the Services.

C. Decisions

Provide all criteria and full information as to Board's requirements for the Services and make timely decisions on matters relating to the Services.

Article 4. Compensation: The Board shall pay Consultant a fee based on the payment schedule set forth in Exhibit B – Compensation. Exhibit B is attached hereto and incorporated herein by reference as though fully set forth. For the construction inspection of Adams Street, the total compensation paid, including fees and expenses, shall not exceed the amount of **One Hundred Six Thousand Seven Hundred and One Dollars (\$106,701.00)**. This sum includes salaries, payroll taxes and insurance, employee fringe benefits, general overhead costs, profit, two licenses for Appia Software and project related expenses. Payments will be made according to Consultant's monthly progress statements for each phase and shall be invoiced for the work completed only.

Additional assignments or additional services not set forth in Exhibit A, changes in work, or incurred expenses in excess of the rates set forth in Exhibit B must be authorized in writing by the Board or the Board's designated representative prior to such work being performed, or expenses incurred. The Board shall not make payment for any unauthorized work or expenses. Claims for additional work or expenses must be submitted within thirty (30) days of the completion of the work or expenditure, and must be accompanied by a statement of itemized costs.

1. Timing and Format for Billing:

Invoices shall be submitted monthly for Services completed at the time of billing and are due upon receipt. Invoices shall be considered past due if not paid within forty-five (45) calendar days of the due date. Such invoices shall be prepared in a form supported by documentation as the Board may reasonably require.

Tasks shall be invoiced separately, either as separate lines on a single invoice, or on separate invoices at the Board's direction.

2. Billing Records:

Consultant shall maintain accounting records of its costs in accordance with generally accepted accounting practices. Access to such records will be provided during normal business hours with reasonable notice during the term of this Agreement and for 3 years after completion.

Article 5. Appropriation of Funds: Notwithstanding any other provision of this Agreement, if funds for the continued fulfillment of this Agreement by the Board are at any time not forthcoming or are insufficient, through failure of any entity, including the Board itself, to

appropriate funds or otherwise, then the Board shall have the right to terminate this Agreement without penalty as set forth in Article 7 herein.

Article 6. Schedule: Consultant shall perform the Services according to the schedule set forth in Exhibit C, Project Schedule. Exhibit C is attached hereto and incorporated herein by reference as though fully set forth. The time limits established by this schedule shall not be exceeded, except for reasonable cause as mutually agreed by the parties.

Article 7. Termination: In the event of a party's substantial failure to perform in accordance with the terms of this Agreement, the other party shall have the right to terminate the Agreement upon written notice. The nonperforming party shall have fourteen (14) calendar days from the receipt of the termination notice to cure or to submit a plan for cure acceptable to the other party.

The Board may terminate or suspend performance of this Agreement at the Board's prerogative at any time upon written notice to the Consultant. The Consultant shall terminate or suspend performance of the Services on a schedule acceptable to the Board, and the Board shall pay the Consultant for all the Services performed up to the date that written notice is received, plus reasonable termination or suspension expenses. Upon restart, an equitable adjustment shall be made to the Consultant's compensation and the schedule of services.

Upon termination or suspension of this Agreement, all finished or unfinished reports, drawings, collections of data and other documents generated by Consultant in connection with this Agreement shall become the property of the Board, as set forth in Article 11 herein.

Article 8. Identity of Consultant: Consultant acknowledges that one of the primary reasons for its selection by the Board to perform the duties described in this Agreement is the qualification and experience of the principal personnel whom Consultant has represented will be responsible there for. Consultant thus agrees that the work to be done pursuant to this Agreement shall be performed by the principal personnel described in Exhibit D, Key Personnel, and such other personnel in the employ under contract or under the supervision of Consultant. Exhibit D is attached hereto and incorporated herein by reference as though fully set forth. The Board reserves the right to reject any of the Consultant's personnel or proposed outside professional subconsultants, and the Board reserves the right to request that acceptable replacement personnel be assigned to the project.

Article 9. Cost Estimates: All estimates of construction cost to be provided by Consultant shall represent the best judgment of Consultant based upon the information currently available and

upon Consultant's background and experience with respect to projects of this nature. It is recognized, however, that neither Consultant nor the Board has control over the cost of labor, materials or equipment, over contractors' method of determining costs for services, or over competitive bidding, market or negotiating conditions. Accordingly, Consultant cannot and does not warrant or represent that the proposals or construction bids received will not vary from the cost estimates provided pursuant to this Agreement.

Article 10. Reuse of Documents: All documents, including but not limited to, drawings, specifications and computer software prepared by Consultant pursuant to this Agreement are instruments of service in respect to this project. They are not intended or represented to be suitable for reuse by the Board or others on modifications or extensions of this project or on any other project. The Board may elect to reuse such documents; however, any reuse without prior written verification or adaptation by Consultant for the specific purpose intended will be at the Board's sole risk and without liability or legal exposure to the Consultant. The Board shall indemnify and hold harmless the Consultant against all judgments, losses, damages, injuries and expenses arising out of or resulting from such reuse. Any verification or adaptation of documents by the Consultant will entitle the Consultant to additional compensation at rates to be agreed upon by the Board and the Consultant.

Article 11. Ownership of Documents and Intellectual Property: All documents, drawings and specifications, including digital format files, prepared by Consultant and furnished to the Board as part of the Services shall become the property of the Board. Consultant shall retain its ownership rights in its design, drawing details, specifications, data bases, computer software and other proprietary property. Intellectual property developed, utilized or modified in the performance of the Services shall remain the property of the Consultant.

Article 12. Independent Contractor Status: During the entire term of this Agreement, Consultant shall be an independent contractor, and in no event shall any of its personnel, agents or sub-contractors be construed to be, or represent themselves to be, employees of the Board.

Article 13. Indemnification: To the fullest extent permitted by law, Consultant shall indemnify and hold harmless the City of Bloomington, the Board, and the officers, agents and employees of the City and the Board from any and all claims, demands, damages, costs, expenses or other liability arising out of bodily injury or property damage (collectively "Claims") but only to the extent that such Claims are found on a comparative basis of fault to be caused by any negligent act or omission of Consultant or Consultant's officers, directors, partners, employees, or subconsultants in the performance of services under this Agreement.

Article 14. Insurance: During the performance of any and all Services under this Agreement, Consultant shall maintain the following insurance in full force and effect:

- a. General Liability Insurance, with a minimum combined single limit of \$1,000,000 for each occurrence and \$2,000,000 in the aggregate.
- b. Automobile Liability Insurance, with a minimum combined single limit of \$1,000,000 for each person and \$1,000,000 for each accident.
- c. Professional Liability Insurance ("Errors and Omissions Insurance") with a minimum combined single limit of \$1,000,000 for each occurrence, and \$2,000,000 in the aggregate.
- d. Workers' Compensation Insurance in accordance with the statutory requirements of Title 22 of the Indiana Code.

All insurance policies shall be issued by an insurance company authorized to issue such insurance in the State of Indiana. The City of Bloomington, the Board, and the officers, employees and agents of each shall be named as additional insured under both the General Liability Insurance and Automobile Liability Insurance policies, and the policies shall stipulate that the insurance will operate as primary insurance and that no other insurance effected by the City will be called upon to contribute to a loss hereunder.

Consultant shall provide evidence of each insurance policy to the Board prior to the commencement of work under the Agreement. Approval of the insurance by the Board shall not relieve or decrease the extent to which Consultant may be held responsible for payment of damages resulting from service or operations performed pursuant to this Agreement. If Consultant fails or refuses to procure or maintain the insurance required by these provisions, or fails or refuses to furnish the Board required proof that the insurance has been procured and is in force and paid for, Board shall have the right at Board's election to forthwith terminate the Agreement.

Article 15. Conflict of Interest: Consultant declares that it has no present interest, nor shall it acquire any interest, direct or indirect, which would conflict with the performance of Services required under this Agreement. The Consultant agrees that no person having any such interest shall be employed in the performance of this Agreement.

Article 16. Waiver: No failure of either party to enforce a term of this Agreement against the other shall be construed as a waiver of that term, nor shall it in any way affect the party's right to enforce that term. No waiver by any party of any term of this Agreement shall be considered to be a waiver of any other term or breach thereof.

Article 17. Severability: The invalidity, illegality or unenforceability of any provision of this Agreement or the occurrence of any event rendering any portion or provision of this Agreement void shall in no way affect the validity or enforceability of any other portion or provision of this Agreement. Any void provision shall be deemed severed from this Agreement, and the balance of the Agreement shall be construed and enforced as if it did not contain the particular provision to be held void. The parties further agree to amend this Agreement to replace any stricken provision with a valid provision that comes as close as possible to the intent of the stricken provision. The provisions of this Article shall not prevent this entire Agreement from being void should a provision which is of the essence of this Agreement be determined void.

Article 18. Assignment: Neither the Board nor the Consultant shall assign any rights or duties under this Agreement without the prior written consent of the other party; provided, however, Consultant may assign its rights to payment without the Board's consent. Unless otherwise stated in the written consent to an assignment, no assignment will release or discharge the assignor from any obligation under this Agreement.

Article 19. Third Party Rights: Nothing in this Agreement shall be construed to give any rights or benefits to anyone other than the Board and the Consultant.

Article 20. Governing Law and Venue: This Agreement shall be governed by the laws of the State of Indiana. Venue of any disputes arising under this Agreement shall be in the Monroe County Circuit Court, Monroe County, Indiana.

Article 21. Non-Discrimination: Consultant shall comply with City of Bloomington Ordinance 2.21.020 and all other federal, state and local laws and regulations governing non-discrimination in employment.

Consultant understands that the City of Bloomington prohibits its employees from engaging in harassment or discrimination of any kind, including harassing or discriminating against independent contractors doing work for the City. If the Consultant believes that a City employee engaged in such conduct towards Consultant and/or any of its employees, Contractor or its employees may file a complaint with the City department head in charge of the Consultant's work and/or with the City human resources department or the Bloomington Human Rights Commission. The City takes all complaints of harassment and discrimination

seriously and will take appropriate disciplinary action if it finds that any City employee engaged in such prohibited conduct.

Article 22. Compliance with Laws: In performing the Services under this Agreement, Consultant shall comply with any and all applicable federal, state and local statutes, ordinances, plans, and regulations, including any and all regulations for protection of the environment. When appropriate, Consultant shall advise Board of any and all applicable regulations and approvals required by the Federal Environmental Management Agency (FEMA). Where such statutes, ordinances, plans or regulations of any public authority having any jurisdiction on the project are in conflict, Consultant shall proceed using its best judgment only after attempting to resolve any such conflict between such governmental agencies, and shall notify the Board in a timely manner of the conflict, attempts of resolution, and planned course of action.

Article 23. Notices: Any notice required by this Agreement shall be made in writing to the addresses specified below:

Board:

City of Bloomington
Planning and Transportation Dept.
Attn: Neil Kopper
401 N. Morton Street, Suite 130
Bloomington, Indiana 47404

Consultant:

HWC Engineering, Inc.
Attn: Jon Day
135 N. Pennsylvania Street Suite 2800
Indianapolis, IN 46204

Nothing contained in this Article shall be construed to restrict the transmission of routine communications between representatives of the Board and the Consultant.

Article 24. Intent to be Bound: The Board and the Consultant each bind itself and its successors, executors, administrators, permitted assigns, legal representatives and, in the case of a partnership, its partners to the other party to this Agreement, and to the successors, executors, administrators, permitted assigns, legal representatives and partners of such other party in respect to all provisions of this Agreement.

Article 25. Integration and Modification: This Agreement, including all Exhibits incorporated by reference, represents the entire and integrated agreement between the Board and the Consultant. It supersedes all prior and contemporaneous communications, representations and agreements, whether oral or written, relating to the subject matter of this Agreement.

Article 26. Verification of New Employee' Employment Status: Consultant is required to enroll in and verify the work eligibility status of all newly-hired employees through the E-Verify program. (This is not required if the E-Verify program no longer exists.) Consultant shall sign an affidavit, attached as Exhibit E, affirming that Consultant does not knowingly employ an unauthorized alien. "Unauthorized alien" is defined at 8 U.S. Code 1324a(h)(3) as a person who is not a U.S. citizen or U.S. national and is not lawfully admitted for permanent residence or authorized to work in the U.S. under 8U.S. Code Chapter 12 or by the U.S. Attorney General.

Consultant and any of its subconsultants may not knowingly employ or contract with an unauthorized alien, or retain an employee or contract with a person that the Consultant or any of its subconsultants learns is an unauthorized alien. If the Board obtains information that the Consultant or any of its subconsultants employs or retains an employee who is an unauthorized alien, the Board shall notify the Consultant or its subconsultants of the Agreement violation and require that the violation be remedied within thirty (30) days of the date of notice. If the Consultant or any of its subconsultants verify the work eligibility status of the employee in question through the E-Verify program, there is a rebuttable presumption that the Consultant or its subconsultant did not knowingly employ an unauthorized alien. If the Consultant or its subconsultant fails to remedy the violation within the thirty (30) day period, the Board shall terminate the Agreement, unless the Board determines that terminating the Agreement would be detrimental to the public interest or public property, in which case the Board may allow the Agreement to remain in effect until the Board procures a new Consultant. If the Board terminated the Agreement, the Consultant or its subconsultant is liable to the Board for actual damages.

Consultant shall require any subconsultants performing work under this Agreement to certify to the Consultant that, at the time of certification, the subconsultant does not knowingly employ or contract with an unauthorized alien and the subconsultant has enrolled in and is participating in the E-Verify program. Consultant shall maintain on file all subconsultants' certifications throughout the term of this Agreement with the Board.

Exhibit E is attached hereto and incorporated herein by reference as though fully set forth.

Article 27. No Collusion: Consultant is required to certify that it has not, nor has any other member, representative, or agent of Consultant, entered into any combination, collusion or agreement with any person relative to the price to be offered by any person nor prevented any person from making an offer nor induced anyone to refrain from making an offer and that this offer is made without reference to any other offer. Consultant shall sign an affidavit, attached hereto as Exhibit F, affirming that Consultant has not engaged in any collusive conduct.

Exhibit F is attached hereto and incorporated herein by reference as though fully set forth.
This Agreement may be modified only by a written amendment signed by both parties hereto.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed the day
and year first written above.

Owner

Consultant

City of Bloomington
Board of Public Works

HWC Engineering, Inc.



By: _____
Kyla Cox Deckard, President

Terry Baker
President

By: _____
Beth H. Hollingsworth, Vice President

By: _____
Dana Palazzo, Secretary

By: _____
Philippa M. Guthrie, Corporation Counsel

EXHIBIT A
SCOPE OF WORK AND FEE ESTIMATE

SERVICES BY CONSULTANT

Project Background and General Description of Services:

The detailed Construction Observation Scope of Services to be furnished by **CONSULTANT** is as follows:

1. Construction Observation

CONSULTANT will provide full time construction observation to monitor the contractor's workmanship and general compliance with the project plans and specifications. Inspection services will be provided through the completion of the construction of the project, or until our fee is completely used; whichever comes first.

The duties and responsibilities of the Resident Project Representative (RPR) are as follows:

1. *General:* RPR is **CONSULTANT**'s representative at the Site. RPR's dealings in matters pertaining to the Contractor's work in progress shall in general be with **CONSULTANT** and Contractor.
2. *Conferences and Meetings:* Attend meetings with Contractor, such as preconstruction conferences, progress meetings, job conferences and other project-related meetings, and prepare and circulate copies of minutes thereof.
3. *Review of Work and Rejection of Defective Work:* Conduct on-Site observations of Contractor's work in progress to assist **CONSULTANT** and **BOARD** in determining if the Work is in general proceeding in accordance with the Contract Documents.
4. *Records:*
 - a. Maintain at the Site orderly files for correspondence, reports of job conferences, reproductions of original Contract Documents including all change orders, field orders, work change directives, addenda, additional Drawings issued subsequent to the execution of the Construction Contract, **CONSULTANT**'s clarifications and interpretations of the Contract Documents, progress reports, Shop Drawing and Sample submittals received from and delivered to Contractor, and other Project-related documents.

- b. On dates of site visits, prepare a daily report or keep a diary or log book, recording Contractor's hours on the Site, weather conditions, data relative to questions of change orders, field orders, work change directives, or changed conditions, Site visitors, daily activities, decisions, observations in general, and specific observations in more detail as in the case of observing test procedures; and send copies to **CONSULTANT**. Prepare a weekly report summarizing the project activities, to be submitted to the **BOARD**.
 - c. Record names, addresses, fax numbers, e-mail addresses, web site locations, and telephone numbers of all Contractors, Subcontractors, and major Suppliers of materials and equipment.
 - d. Maintain records for use in preparing Project documentation.
5. *Reports:*
- a. Furnish to **CONSULTANT** and **BOARD** copies of all inspection, test, and system start-up reports.
 - b. Immediately notify **BOARD** of the occurrence of any Site accidents, emergencies, acts of God endangering the Work, damage to property by fire or other causes.
6. *Payment Requests:*
- Review applications for payment with Contractor for compliance with the established procedure for their submission and forward with recommendations to **CONSULTANT**.
7. *Completion:*
- a. Participate in visits to the Project to determine Substantial Completion, assist in the determination of Substantial Completion and the preparation of lists of items to be completed or corrected.
 - b. Participate in a final visit to the Project in the company of **CONSULTANT**, **BOARD**, and Contractor, and prepare a final list of items to be completed and deficiencies to be remedied.
 - c. Observe whether all items on the final list have been completed or corrected and make recommendations to **CONSULTANT** concerning acceptance and issuance of the Notice of Acceptability of the Work.

**EXHIBIT B
COMPENSATION**

This project is to be completed and invoiced using an Hourly, Not-To-Exceed basis. Each work area has an agreed maximum cost presented below. In the event that additional services are needed, additional compensation will be determined using the same rates that appear in Exhibit B. Additional services will only proceed with prior written approval from the Board or Planning and Transportation Department officials designated by the Board as project coordinator(s).

ADAMS STREET SIDEWALK AND INTERSECTION IMPROVEMENTS

Construction Inspection..... \$102,701.00
Total Hourly Not to Exceed \$ 102,701.00

Appia Software Licenses \$4,000.00
Total Lump Sum \$ 4,000.00

TOTAL ESTIMATED COST OF ADAMS STREET SIDEWALK IMPROVEMENTS \$ 106,701.00

For the purpose of estimating additional work, if found necessary, the cost of such additional work shall be determined on the following schedule:

Construction Inspection Manager: \$115 / hour
Construction Inspection I: \$ 110 / hour
Construction Inspector II: \$ 95 / hour
Direct Expenses: At Cost
Subconsultants: At Cost

**EXHIBIT C
PROJECT SCHEDULE**

	ADAMS STREET			
MILESTONES	ESTIMATED DATE	COMMENTS		
Notice to Proceed	April 1, 2020			
Initial Stakeholder Meetings Complete	N/A			
Submit Preliminary Plans	N/A			
Final Stakeholder Meetings Complete	N/A			
Submit Draft Final Plans	N/A			
Complete Final Plans	N/A			
Bid Advertisement	N/A			
Bid Opening	November 19, 2019			
Construction	April-July 2020			

**EXHIBIT D
KEY PERSONNEL**

CONSULTANT will provide the following key team members to provide the services described in Exhibit A. Key team members may not be changed without the approval of the Board.

<u>Position / Responsibility</u>	<u>Name</u>
Construction Inspection Manager	Jon Day
Construction Inspection Team Lead	Ian Lesko
Project Engineer/Supervisor	Jacob Kelley
Construction Inspection Subconsultant	Northpointe Engineering

EXHIBIT E
AFFIDAVIT REGARDING E-VERIFY

STATE OF INDIANA)
) SS:
COUNTY OF VIGO)

The undersigned, being duly sworn, hereby affirms and says that:

1. The undersigned is the President of HWC Engineering, Inc.
2. The company named herein that employs the undersigned:
 - has contracted with or is seeking to contract with the City of Bloomington to provide services; OR
 - is a subcontractor on a contract to provide services to the City of Bloomington.
3. The undersigned hereby states that, to the best of his/her knowledge and belief, the company named herein does not knowingly employ an "unauthorized alien," as defined at 8 United States Code 1324a(h)(3).
4. The undersigned hereby states that, to the best of his/her knowledge and belief, the company named herein is enrolled in and participates in the E-verify program.



Terry Baker
President

STATE OF INDIANA)
) SS:
COUNTY OF VIGO)

Before me, a Notary Public in and for said County and State, personally appeared TERRY BAKER and acknowledged the execution of the foregoing this 27TH day of MARCH, 2020.

Lisa E. Brewer
Notary Public
LISA E. BREWER
Printed name



My Commission Expires: 05-12-2024
County of Residence: VIGO

Commission Number: NP0682659

**EXHIBIT F
NON-COLLUSION AFFIDAVIT**

STATE OF INDIANA)
) SS:
COUNTY OF VIGO)


The undersigned offeror or agent, being duly sworn on oath, says that he has not, nor has any other member, representative, or agent of the firm, company, corporation or partnership represented by him, entered into any combination, collusion or agreement with any person relative to the price to be offered by any person nor to prevent any person from making an offer nor to induce anyone to refrain from making an offer and that this offer is made without reference to any other offer.

OATH AND AFFIRMATION

I affirm under the penalties of perjury that the foregoing facts and information are true and correct to the best of my knowledge and belief.

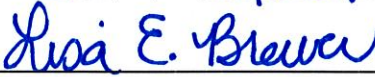
Dated this 27th day of March, 2020.

HWC Engineering, Inc.
(Name of Organization)

By: 
Terry Baker
President

STATE OF INDIANA)
) SS:
COUNTY OF VIGO)

Subscribed and sworn to before me this 27th day of March, 2020


Notary Public
LISA E BREWER
Printed name



My Commission Expires: 05-12-2024
County of Residence: VIGO Commission Number: NP0682659

**Board of Public Works
Staff Report**

Project/Event: Purchase Contract for Aerial Fire Apparatus

Petitioner: Bloomington Fire Department

Staff Representative: Jennifer Lloyd, Assistant City Attorney
Jason Moore, Jayme Washel, Bloomington Fire Department

Date: March 31, 2020

Report: The Fire Department is purchasing an E-One aerial fire apparatus, which will become its new Ladder Truck 2, replacing existing Unit 396. The apparatus is being purchased from Fire Service, Inc. through the HGAC purchasing cooperative.

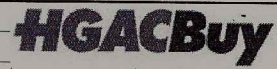
The purchase price of the apparatus is \$1,124,005. It is scheduled for delivery in early January, 2021.

Staff recommends approval of the purchase agreement for an E-One aerial fire apparatus.

Recommend Approval Denial by: Jennifer Lloyd

Board of Public Works
Staff Report

CUSTOMIZED PRODUCT PRICING SUMMARY BASED ON CONTRACT



Product Description:

Number of Units: One (1)

* The following details shall be provided with Purchase Order from End User to H-GAC for customized products:

A.	Base Bid Price as in Bid/Contract No. FS12-19 JA06	(per single unit)	\$ 929,865.00
B.	Published Options added to Base Bid.....	(per single unit).....	\$ 646,151.00
C. PER UNIT SUB TOTAL:		\$ 1,576,016.00

Change Order Provisions (if applicable):

D.	Dollar value of Unpublished Options added to base bid price per unit.....	\$ 1,296.00	
E.	Dollar value of Contract Items per unit deleted from Base Bid total.....	\$ -	
F.	PER UNIT CHANGE ORDER SUB TOTAL: (Change Order not to exceed 25%) (Change order 0%)		\$ 1,296.00
G.	Order total without H-GAC fee for One (1) units	SUB TOTAL:	\$ 1,577,312.00
H.	H-GAC Administrative Fee (from Fee Schedules).....		\$2,000.00
I.	Additional Discounts.....		\$ (455,307.00)
J.	TOTAL PURCHASE PRICE INCLUDING H-GAC		\$ 1,124,005.00

K. COMMENTS AND NOTES:

A. Aerials (Booms/Platforms, Ladders, Ladder/Platforms)		
FS19JA01	E-One Typhoon, 4-Door Full-Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Single Axle, 1500 GPM Single Stage Pump, 500 Gallon Tank, Welded Aluminum 50' Boom - 50 FT. 300# Tip Load, Mid Mount Telescoping Boom with Rescue Ladder	\$ 704,919.00
FS19JA02	E-One Typhoon, 4-Door Full-Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Single Axle, 1500 GPM Single Stage Pump, 500 Gallon Tank, Welded Extruded Aluminum HP75 - 75 FT. 550# Tip Load, Rear Mount Telescoping Ladder	\$ 801,669.00
FS19JA03	E-One Typhoon, 4-Door Full-Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Single Axle, 1500 GPM Single Stage Pump, 500 Gallon Tank, Welded Extruded Aluminum HP78 - 78 FT. 650# Tip Load, Rear Mount Telescoping Ladder	\$ 814,565.00
FS19JA04	E-One Quest, 4-Door Full-Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Single Axle, 1500 GPM Single Stage Pump, 500 Gallon Tank, Welded Extruded Aluminum HP78 - 78 FT. 825# Tip Load, Rear Mount Telescoping Ladder	\$ 839,771.00
FS19JA05	E-One Typhoon, 4 Door Full Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Single Axle, No Pump, No Tank, Welded Extruded Aluminum Metro 100 - 100 FT. 300# Tip Load, Rear Mounted Telescoping Ladder.	\$ 778,487.00
FS19JA06	E-One Typhoon, 4 Door Full Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Single Axle, 1500 GPM Single Stage Pump, 300 Gallon Tank, Welded Extruded Aluminum HR100 - 100 FT. 300# Tip Load, Rear Mounted Telescoping Ladder.	\$ 929,865.00
FS19JA07	E-One Typhoon, 4-Door Full-Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Tandem Axle, 1500 GPM Single Stage Pump, 500 Gallon Tank, Welded Extruded Aluminum HP100 - 100 FT. 550# Tip Load, Rear Mounted Telescoping Ladder	\$ 1,018,765.00
FS19JA08	E-One Typhoon, 4-Door Full-Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Tandem Axle, 1500 GPM Single Stage Pump, 300 Gallon Tank, Welded Steel HPS105 - 105 FT. 575# Tip Load, Rear Mounted Telescoping Ladder	\$ 1,058,525.00
FS19JA09	E-ONE Quest, 4 Door Full Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Tandem Axle, 1500 GPM Single Stage Pump, 300 Gallon Tank, Welded Extruded Aluminum CR137 - 137 FT. 300# Tip Load, Rear Mount Telescoping Ladder	\$ 1,105,676.00
FS19JA10	E-One Typhoon, 4-Door Full-Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Tandem Axle, 1500 GPM Single Stage Pump, 300 Gallon Tank, Welded Extruded Aluminum L193 - 95' 1305# Tip Load, Mid-Mounted Telescoping Ladder Platform	\$ 1,263,362.00
FS19JA11	E-One Typhoon, 4-Door Full-Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Tandem Axle, 1500 GPM Single Stage Pump, 300 Gallon Tank, Welded Extruded Aluminum L095- 92' 1025# Tip Load, Rear Mounted Telescoping Ladder with Platform	\$ 1,142,917.00
FS19JA12	E-ONE Typhoon, 4 Door full Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Tandem Axle, 1500 GPM Single Stage Pump, 300 Gallon Tank, Welded Extruded Aluminum HP100 - 100 FT. 1305# Tip Load, Rear Mounted Telescoping Ladder with Platform	\$ 1,204,689.00
FS19JA13	E-ONE Typhoon, 4 Door full Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Tandem Axle, 1500 GPM Single Stage Pump, 300 Gallon Tank, Welded Steel HPS100P - 100 FT. 1305# Tip Load, Rear Mounted Telescoping Ladder with Platform	\$ 1,204,741.00
FS19JA14	E-One Typhoon, 4-Door Full-Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Tandem Axle, 1500 GPM Single Stage Pump, 300 Gallon Tank, Welded Steel SM10 100' 1305# Tip Load, Mid Mounted Telescoping Ladder with Platform	\$ 1,424,375.00
FS19JA15	E-One Typhoon, 4-Door Full-Tilt Aluminum Cab, Extruded Aluminum Body, Tandem/Axle, 2000 GPM Single Stage Pump, 300 Gallon Tank, Bronto 116+ 1400# Tip Load Rear Mounted Telescoping & Articulating Steel Boom with Platform	\$ 1,455,888.00

FORM E - PUBLISHED OPTIONS

Procurement No.:

FS12-19

Offeror Name: Fire Service Inc.

Aerials JA01-JA15

Offeror's or Mfr's Code	OPTION DESCRIPTION (Must include H-GAC Required Option Code, if used in specification)	Offered Price	Qty:	Total
4415-0008	1.5" Front Bumper Discharge Akron Manual Valve	\$ 2,259.00	1	\$ 2,259.00
4415-0051	4" Waterway Discharge with 3" Akron Manual Valve.	\$ 3,261.00	1	\$ 3,261.00
4415-0940	3" Right Pump Panel Discharge Akron Manual Valve	\$ 2,540.00	1	\$ 2,540.00
4015-0002	Mechanical speed counter for Hale pumps.	\$ 461.00	1	\$ 461.00
4015-0018	Valve Inlet MIV-E - Hale.	\$ 4,924.00	2	\$ 9,848.00
4015-0022	Mechanical pump seal - Hale.	\$ 455.00	1	\$ 455.00
4100-0033	30 gallon integral foam tank for [#LOC]. UPF Poly III [#COL] fill tower. Foam tank capacity will reduce the water tank capacity.	\$ 1,618.00	1	\$ 1,618.00
4465-0011	Class 1 TPG pressure governor. Includes water oil volt and tachometer.	\$ 3,228.00	1	\$ 3,228.00
3305-0001	Hosebed cover aluminum (2) piece with recessed handles SideStacker	\$ 2,700.00	1	\$ 2,700.00
3305-0008	Vinyl [#COL] crosslay cover with attached side flaps.	\$ 433.00	1	\$ 433.00
3305-0022	Vinyl rear cover for diamond plate hose bed cover. Color: [#COL].	\$ 383.00	1	\$ 383.00
3320-0005	SCBA Bottle Storage. (4) Cast Product SCBA bottle storage with gasketed doors. (2) each side in rear wheel well area.	\$ 1,063.00	1	\$ 1,063.00
3330-0079	Slideout platform-rollerless	\$ 1,304.00	2	\$ 2,608.00
3350-0009	Hydraulic hose reel for use with TNT brand tools. Includes 100' 1/4" Parker Polyflex hose (up to 10500 PSI) and rollers (captive type). Hose Color [#COL].	\$ 7,161.00	1	\$ 7,161.00
5010-0055	Vista IV display for V-MUX electrical system. Location: [#LOC].	\$ 2,615.00	1	\$ 2,615.00
5130-0001	Cord reel electric with 200' of 10/3 black cable.	\$ 3,101.00	1	\$ 3,101.00
5130-0006	Rollers for cord reel mounted on reel.	\$ 508.00	1	\$ 508.00
5130-0012	Junction box Circle-D with four (4) 3-wire NEMA L5-15 110 volt 15 amp twist lock receptacles. Located on cord for reel in [#LOC].	\$ 1,070.00	1	\$ 1,070.00
5130-0022	Rollers for cord reel mounted through panel. Location(s).	\$ 508.00	1	\$ 508.00
5200-0001	Breaker box 12 place single phase.	\$ 1,299.00	1	\$ 1,299.00
5250-0055	Generator Smart Power 8KW hydraulic model ER8. Includes generator control / PTO engage switch and a gauge panel located adjacent to breaker box. Generator location	\$ 27,327.00	1	\$ 27,327.00
5350-0060	Diamond plate camera shield.	\$ 312.00	1	\$ 312.00
5350-0070	Voyager back-up camera. Camera only - does not include monitor.	\$ 1,025.00	1	\$ 1,025.00
5350-0084	David Clark model 3800 intercom system with (6) cab head sets. Headsets to be shipped loose.	\$ 11,658.00	1	\$ 11,658.00
5350-0156	FRC ACT 2-way aerial intercom.	\$ 2,984.00	1	\$ 2,984.00
5380-0032	Ground light package LED - large.	\$ 2,224.00	1	\$ 2,224.00
5380-0038	Step light package body LED - large.	\$ 3,261.00	1	\$ 3,261.00
5380-0253	Compartment light package ROM V4 LED for large bodies. Includes one light per compartment (two if transverse).	\$ 6,801.00	1	\$ 6,801.00
5390-0007	Deck/scene light circuit wiring through chassis reverse. Requires rear deck or scene light.	\$ 116.00	1	\$ 116.00
5450-0123	Whelen Pioneer Plus LED model PFP2 12V with PBAPEDD pedestal mount	\$ 3,298.00	2	\$ 6,596.00
5450-0124	Whelen Pioneer model PFA2 with brow mount (EA)	\$ 2,679.00	4	\$ 10,716.00
5470-0001	Receptacle twist lock 20A/110V 3 wire NEMA L5-20 with cover plate.	\$ 472.00	2	\$ 944.00

5500-0011	Federal Q2B siren - Pedestal mounted on bumper. Location: [#LOC].	\$ 3,927.00	1	\$ 3,927.00
5550-0073	Whelen Super LED lower level warning light package. Includes (8) 600 Super LED light heads and (2) 900 Super LED light heads w/chrome flanges where applicable.	\$ 4,856.00	1	\$ 4,856.00
6100-0044	Ladder LTH100 with waterway to tip. Includes left side console with cover adjustable height turntable hand rails split steps at tip and jack leg flood lights.	\$ 344,736.00	1	\$ 344,736.00
6300-0016	Monitor TFT electric 1000GPM for ladder with a powder coated silver finish. Includes tip and base controls.	\$ 16,509.00	1	\$ 16,509.00
6500-0011	Pike pole tube on ladder	\$ 383.00	1	\$ 383.00
6500-0019	Axe bracket mounted in fly section	\$ 636.00	1	\$ 636.00
6500-0042	Stokes basket mounting bracket outside base section.	\$ 1,162.00	1	\$ 1,162.00
6500-0164	Lifting eyes each side at tip of fly section. Rating is 375 lbs ea, 750 lbs pr. HP100 Platform only.	\$ 1,273.00	1	\$ 1,273.00
6560-0080	Ladder climbing lights Luma Bar Pathfinder LED strip for 4 section aerial (one side). Color: (color to be specified).	\$ 6,430.00	1	\$ 6,430.00
6560-0105	Light Whelen Pioneer Plus 120V model PFP1AP1 with PBAPEDA pedestal mount. Requires 110 volt twist lock receptacle at tip option. Location(s): (location to be specified).	\$ 2,418.00	1	\$ 2,418.00
6570-0015	110V/20A twist lock receptacle at tip.	\$ 4,063.00	1	\$ 4,063.00
6600-0002	Roof ladder bracket J style mount. Locate outside base section for a (location to be specified). Available on HP75/78, HP100, and HP95.	\$ 2,689.00	1	\$ 2,689.00
6750-0000	Aerial sign plates 10 x 144 (PR). Available on Booms, HP75 and HP100 only. Does not include lettering. Color: (color to be specified).	\$ 2,208.00	1	\$ 2,208.00
6850-0025	Advanced Aerial Control System - Ladder. Includes monitor stow / deploy, cradle alignment It and 3.2" display with flowmeter.	\$ 20,371.00	1	\$ 20,371.00
1025-0008	Meritor FL941 front axle 21500lb	\$ 26,579.00	1	\$ 26,579.00
1025-0018	Meritor RS-30-185 single rear axle 31000 lb. capacity.	\$ 21,082.00	1	\$ 21,082.00
1025-0030	Stemco oil seal front axle. Chicago Rawhide seal with Stemco sight glass will be supplied when front disc brakes are selected.	\$ 174.00	1	\$ 174.00
1050-0007	Front axle wheel trim kit. Includes stainless steel lug nut covers and center cap with E-ONE logo.	\$ 359.00	1	\$ 359.00
1050-0008	Rear axle (single) Wheel Trim kit. Includes stainless steel lug nut covers and center cap with E-ONE logo. E-ONE custom chassis w/ steel wheels will have chrome plated plastic lug covers.	\$ 441.00	1	\$ 441.00
1050-0044	Accuride aluminum wheels for front axle (2).	\$ 1,670.00	1	\$ 1,670.00
1050-0045	Accuride aluminum wheels for rear axle (4).	\$ 2,447.00	1	\$ 2,447.00
1100-0024	G4 Electronic Stability Control (4x2) Includes RSC and ATC. Not available on 4x4 commercial chassis or tiller.	\$ 5,137.00	1	\$ 5,137.00
1160-0016	28" Front Bumper Gravel Shield Extension.	\$ 1,135.00	1	\$ 1,135.00
1160-0084	Heavy duty 12" front bumper with full wrap around. To be painted job color.	\$ 3,236.00	1	\$ 3,236.00
1510-0279	ReadyReach seat belt extender.	\$ 123.00	6	\$ 738.00
1510-0328	Driver seat USSC Valor P1A air ride.	\$ 2,519.00	1	\$ 2,519.00
1510-0329	Officer seat USSC Valor fixed SCBA.	\$ 1,463.00	1	\$ 1,463.00
1510-0330	Rear facing USSC Valor SCBA seat driver's side.	\$ 1,327.00	1	\$ 1,327.00
1510-0331	Rear facing USSC Valor SCBA seat officer's side.	\$ 1,327.00	1	\$ 1,327.00
1510-0332	Two man bench centered on rear wall with Valor SCBA backs. Includes angled corners.	\$ 4,038.00	1	\$ 4,038.00
1540-0037	Map box suspended with drop down doors. 15H x 37.5W x 14D	\$ 831.00	1	\$ 831.00
1615-0022	Cab roof to have 12" high split raised rear section with full length center waterway trough. For use with rear mount aerial.	\$ 8,153.00	1	\$ 8,153.00
1620-0006	CIIX stainless steel grille for Typhoon X.	\$ 1,304.00	1	\$ 1,304.00
1640-0000	Step below cab door. Located [#LOC]. Steps under front cab doors shall not interfere with approach angle.	\$ 339.00	4	\$ 1,356.00
1670-0001	Ramco 6001FFR mirrors. Remote controlled with top CAS750 convex. Location.	\$ 2,238.00	1	\$ 2,238.00
1670-0031	2" extension for Ramco mirrors.	\$ 234.00	1	\$ 234.00
1685-0240	Slide-out MDT mount officer cab dash with dock. Requires severe duty dash w/MDT notch	\$ 2,116.00	1	\$ 2,116.00

1685-0369	Severe duty dash package with low profile officer side dash. Includes smooth plate alum center and officer side dash and lower kick panels; all painted to match cab interior.	\$ 1,658.00	1	\$ 1,658.00
1700-0021	Alternator Niehoff 360 amp (360 amp SAE/320 NFPA rating). Available only on ISL.	\$ 4,678.00	1	\$ 4,678.00
1750-0073	Antenna base Tessco P/N 90942 (NMO Motorola Style - also called MATM style) on cab roof.	\$ 135.00	2	\$ 270.00
1750-0117	Auto eject receptacle inlet 15 amp 240 volt with a [#COL] cover.	\$ 744.00	1	\$ 744.00
1750-0215	Turn signal Whelen M6 LED arrow amber pair located [#LOC].	\$ 927.00	1	\$ 927.00
1750-0514	Peterson LED cab headlights (1 pair)	\$ 1,270.00	1	\$ 1,270.00
8100-0177	Paint cab Sikkens two-tone. Upper area of cab to be painted [#COL].	\$ 1,840.00	1	\$ 1,840.00
8100-0084	All applicable pump/pre-connect application modules are to have a job color finish. Includes upper and lower pump modules, crosswalk module and/or speedlay/pre-connect module (as applicable).	\$ 894.00	1	\$ 894.00
8200-0117	Sign Gold Letter (Each) upto 6" tall. The exact size and location of the letters as specified by the customer.	\$ 25.00	100	\$ 2,500.00
8200-0118	Sign Gold Letter (Each) upto 12" tall. The exact size, color and location of the letters as specified by the customer.	\$ 46.00	22	\$ 1,012.00
8300-0006	NFPA Scotchlite Stripe - 6" wide with "Z". Stripe straight on front, sides and rear of cab and body. "Z" location to be specified by customer. Color: (color to be specified). Location: (location to be specified).	\$ 1,699.00	1	\$ 1,699.00
8300-0026	Scotchlite stripe 1" located 1" above and below existing stripe. Color: (color to be specified).	\$ 949.00	1	\$ 949.00
8300-0144	Chevron "A" style 6" 3M "Diamond Grade" striping full width on rear of body (does not include the B1 door). Includes rear facing extrusions, panels and doors. Colors to be (color to be specified).	\$ 2,637.00	1	\$ 2,637.00
8300-0340	Paint break Sign Gold cab stripe with outline - 3/4" wide total, gold with customer specified outline color. To be located above existing paint break.	\$ 373.00	1	\$ 373.00
8400-0000	Vision flags on canopy windows (PR).	\$ 801.00	1	\$ 801.00
8400-0005	A pair of customer logos for cab supplied to E-One in a digital format.	\$ 1,251.00	1	\$ 1,251.00

Total Published \$ 646,151.00



CONTRACT PRICING WORKSHEET
For MOTOR VEHICLES only

Contract No.:

FS12-19

Date Prepared:

1/23/2020

This Form must be prepared by Contractor and given to End User. The H-GAC administrative fee shall be shown in Section F. End User issues PO to Contractor, and MUST also fax a copy of PO, together with completed Pricing Worksheet, to H-GAC @ 713-993-4548. Please type or print legibly.

Buying Agency:	City of Bloomington	Contractor:	Fire Service Inc.
Contact Person:	Julie Martindale	Prepared By:	Shawn Junker
Phone:	812-349-3474	Phone:	219-365-7157
Fax:	812-349-3456	Fax:	219-365-8572
Email:	martindj@bloomington.in.gov	Email:	shawn@fireserviceinc.com

Product Code:	JA06	Description:	E-One Typhoon, 4 Door Full Tilt Welded Extruded Aluminum Cab, Six (6) Man Seating, Welded Extruded Aluminum Body, Single Axle, 1500 GPM Single Stage Pump, 300 Gallon Tank, Welded Extruded Aluminum HR100 - 100 FT. 300# Tip Load, Rear Mounted Telescoping Ladder.
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A. Product Item Base Unit Price Per Contractor's H-GAC Contract: \$ 929,865.00

B. Published Options - Itemize below - Attach additional sheet(s) if necessary - Include Option Code in description if applicable.

(Note: Published Options are options which were submitted and priced in Contractor's bid.)

Description	Cost	Description	Cost
See Attached	646151		
Subtotal From Additional Sheet(s):			
Subtotal B:			\$ 646,151.00

C. Unpublished Options - Itemize below / attach additional sheet(s) if necessary.

(Note: Unpublished options are items which were not submitted and priced in Contractor's bid.)

Description	Cost	Description	Cost
See Attached	1296		
Subtotal From Additional Sheet(s):			
Subtotal C:			\$ 1,296.00

Check: Total cost of Unpublished Options (C) cannot exceed 25% of the total of the Base Unit Price plus Published Options (A+B).	For this transaction the percentage is:	0%
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D. Total Cost Before Any Applicable Trade-In / Other Allowances / Discounts (A+B+C) \$ 1,577,312.00

Quantity Ordered:	1	X Subtotal of A + B + C + D:	1577312	=	Subtotal D:	\$ 1,577,312.00
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E. H-GAC Fee Calculation (From Current Fee Tables) Subtotal E: \$ 2,000.00

F. Trade-Ins / Other Allowances / Special Discounts / Freight / Installation

Description	Cost	Description	Cost
Discount	-455307		
Subtotal F:			-455307

Delivery Date:	180 Days	G. Total Purchase Price (D+E+F):	\$ 1,124,005.00
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SALES CONTRACT

This agreement made by and between **FIRE SERVICE, INC** (Company) and

City of Bloomington
(Legal Name of Buyer)

401 N. Morton St Bloomington Indiana 47404
(Address) (City) (State / Province) (Zip / Postal Code)

1. **ACCEPTANCE:** The “Company” agrees to sell and the “Buyer” agrees to purchase the apparatus and equipment described in the E-ONE specifications and made part of this contract, in accordance with the terms and conditions listed on contract pages 1, 2, and 3.

2. **DELIVERY:** The apparatus shall be ready for delivery within approximately **298** calendar days, after the receipt and signed acceptance of this contract at the E-ONE Corporate Headquarters, Ocala, FL. The Company cannot be held liable for penalties and / or delays due to strikes, fires, accidents occurring due to the negligent conduct of other parties, force majeure, or any other causes that are not occasioned by the intentional, reckless, or negligent conduct of the Company. Notwithstanding the foregoing, the parties agree that time is of the essence in the contract and a liquidated damages penalty of one hundred dollars (\$100.00) per day shall be paid by the Company for each day that delivery of the apparatus is delayed, starting with the 181st calendar day following receipt and signed acceptance of this contract at the E-ONE Corporate Headquarters. The effective penalty date will **1/5/21**.

This penalty clause excludes delays due to war, fire, labor disputes, acts of God, governmental regulations, supplier issues and other causes beyond E-One or Fire Service Inc.’s control. Changes to the original order will void the Penalty Clause and the penalty will be renegotiated in good faith at the time such changes are approved.

In order to establish a stable design, procurement, and build schedule, a Buyer change order cutoff date of eight (8) Days from the date of the execution of the contract will be enforced. Changes in major components, configuration, or other items that may change the major components or configuration, (e.g.: engine, transmission, axles, water tank, body, fire pump) will not be allowed after the contract execution date.

If inability to obtain exclusive or brand name materials causes completion or delivery problems, the Company shall advise the Buyer of said problem. The Company resolves to examine alternative sources of said material. Material substitutions shall be mutually agreed upon by the Buyer and the Company. No substitutions shall be made without the execution of a written change order by the Buyer.

3. **CHANGE ORDERS:** Changes to the contract may be requested by the Buyer after the execution of the contract according to Section 2 of this document. Changes shall be reviewed for cost and schedule impact by the Company. Changes shall be sequentially numbered. Change Orders shall be prepared by the Company and executed by the Buyer. The price of the apparatus shall be adjusted to take into account any Change Orders. **Any and all Change Orders may extend the completion and delivery of the apparatus.**

4. **SPECIFICATIONS:** The Company agrees that all material and workmanship in and about this apparatus shall comply with the hereto attached E-ONE proposal dated 01/15/20 and clarifications.

5. **WARRANTY:** Shall be as proposed in the attached E-ONE specifications.

6. **PRICE:** The Buyer shall pay, as a purchase price for the apparatus, the sum of **One Million One Hundred Twenty-Four Thousand Five Dollars and no cents (\$1,124,005.00)**. All prices are less any applicable local, state, or federal taxes which may be applied to the apparatus proposed. NOTE: Payment shall be made by electronic funds transfer to the account indicated by the Company on the City's Electronic Funds Transfer form.

7. **TERMS OF PAYMENT:**

a) **Payment Plan Option: Payment shall be due within forty five (45) days of delivery of completed unit to the City of Bloomington.**

The purchase price payment reflects US dollars and does not include any authorized change orders which, if applicable, shall be paid at time of final inspection and signed acceptance.

b) No payment of any amount shall be made payable to a sales representative without written approval from the company.

c) It is agreed that the apparatus and equipment covered by this contract shall remain the property of the Company and not be placed in service until the entire contract price has been paid.

d) A copy of the Buyer's tax-exempt certificate, if applicable, shall be submitted with this signed contract.

8. **FIRE SERVICE, INC** requires, and the Customer agrees, that the unit shall be inspected and / or delivered within seven (7) days of notice that the unit had been completed.

9. **CANCELLATION:** This contract is subject to cancellation by Buyer only upon payment to Company of reasonable cancellation charges, which shall take into account expenses already incurred and commitments made by Company.


This contract, to be binding, must be signed by an officer of **Fire Service, Inc** or a person authorized, in writing, by **Fire Service, Inc** to do so.

10. **TAG-ON / ADDITIONAL ORDERS:** The Company, at its sole discretion, would allow the terms of this contract to be extend both in terms to the Buyer as well as to other entities for similar unit(s). To accommodate for pricing, the Company would quote the original prices plus applicable manufactures price increases. Additionally, any regulatory changes (NFPA, EPA/Engine Emissions, FMVSS, etc.) would also have to be added as they become applicable. Change orders changing these units from the original quotation would need to be authorized, signed, and accepted as normal. Any entity using the tag-on process would be required to sign a new contract commencing the relationship. If the purchasing agency is not the BUYER, a separate contract will be required to complete the additional purchases. Additionally, any new tag-on order would require a separate Performance bond if initially required by the purchaser.

This contract, including its appendices, embodies the entire understanding between the parties relating to the subject matter contained herein and merges all prior discussions and agreements between them. No agent or representative of the Company has authority to make any representations, statements, warranties, or agreements not herein expressed and all modifications of amendments of this agreement, including any appendices, must be in writing signed by an authorized representative of each of the parties hereto.

No surety of any performance bond given by the Company to the Buyer in connection with this Agreement shall be liable for any obligation of the Company arising under the Standard Warranty.

IN WITNESS WHEREOF, the Buyer and the Company have caused this contract to be executed by their duly authorized representatives this ____ day of March 2020.

COMPANY	BUYER
Fire Service, Inc. 9545 North Industrial Drive Saint John, Indiana 46373 219-365-7157 Phone 219-365-8572 Fax	City of Bloomington Board of Public Works 401 N. Morton Street Bloomington, IN 47404
By: 	By: _____ Kyla Cox Deckard, President
Name: <u>Dave Thomas</u>	
Title: <u>Sales Representative</u>	By: _____ Beth Hollingsworth, Vice President
Date: <u>3/12/20</u>	By: _____ Dana Palazzo, Secretary
	Date: _____
	By: _____ John Hamilton, Mayor

**Board of Public Works
Staff Report**

Project/Event: Purchase Contract for Fire Engine

Petitioner: Bloomington Fire Department

Staff Representative: Jennifer Lloyd, Assistant City Attorney
Jason Moore, Jayme Washel, Bloomington Fire Department

Date: March 31, 2020

Report: The Fire Department is purchasing an E-One Fire Engine, which will become its new Engine 1, replacing existing Unit 340. The apparatus is being purchased from Fire Service, Inc. and has been approved for a sole/single source purchase through the special purchasing method statutes.

The purchase price of the apparatus is \$549,964. It is scheduled for delivery in September, 2020.

Staff recommends approval of the purchase agreement for an E-One fire engine.

Recommend Approval Denial by: Jennifer Lloyd

Board of Public Works
Staff Report

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CITY OF BLOOMINGTON FIRE DEPARTMENT

Inspection Trip

There shall be an inspection trip provided for three (3) members of the City of Bloomington to the manufacturing facility to inspect the chassis upon completion. All transportation, lodging, and meal expenses will be the responsibility of Fire Service Inc.

Hose Bed Capacity

Hosebed hose load allowance on the apparatus shall be a minimum of 1200 lbs.

Overall Height Restriction

The apparatus shall have an overall maximum height restriction of 9' 11".

Overall Length Restriction

The unit has an overall maximum length restriction of 31' 6".

NFPA Compliance

The supplied components of the apparatus shall be compliant with NFPA 1901, 2016 edition.

Equipment Capacity

Equipment allowance on the apparatus shall be a minimum of 2500 lbs. This allowance is in addition to the weight of the hoses and ground ladders listed in the shop order as applicable.

BUMPER

Front Bumper

The vehicle shall be equipped with a one-piece 10" high bumper made from 10 gauge (0.135" nominal) polished stainless steel for corrosion resistance, strength, and long lasting appearance. It shall be mounted directly to the front frame extensions for maximum strength. The bumper shall incorporate two (2) stiffening ribs.

Front Bumper Extension

The bumper shall be extended approximately 20" from the face of the cab as required.

Bumper Gravel Shield

The extended front bumper gravel shield shall be made of 3/16" (.375") aluminum treadplate material.

CITY OF BLOOMINGTON FIRE DEPARTMENT

BUMPER TRAY

Lid, Bumper Hose Tray

The center bumper tray shall have a diamond plate lid. The lid shall be hinged and shall be secured in the closed position by a latch and held open with a pneumatic shock.

Bumper Hose Tray Strap

A heavy duty 2" wide black nylon strap shall be provided for the officer side bumper hose tray. The strap shall be attached to the bumper gravel shield by the use of footman loops. Heavy duty Velcro shall be sewn on the strap to securely retain the hose in the tray.

Bumper Tray - Center

A hose tray constructed of 1/8" aluminum shall be recessed into the front bumper extension. The tray shall be located in the center of the bumper and be approximately 12" deep.

Bumper Tray - Officer

A hose tray constructed of 1/8" aluminum shall be recessed into the front bumper extension. The tray shall be located in the officer's side of the bumper and be approximately 12" deep. This tray shall have a capacity of 25' of 5" LDH.

Flooring Material

Slatted fiberglass flooring shall be provided in the center bumper tray providing superior drainage and ventilation.

FRAME ASSEMBLY

Frame Assembly

The frame shall consist of two (2) C-channel frame rails with heavy-duty cross-members. Each frame rail shall have the following minimum specifications in order to minimize frame deflection under load and thereby improve vehicle ride and extend the life of the frame:

Dimensions: 10-1/4" x 3-1/2" x 3/8"

Material: 110,000-psi minimum yield strength, high strength, low alloy steel

Section Modulus: 16.61 cu. in.

Resistance to Bending Moment (RBM): 1,827,045 in. lbs.

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If larger rails are provided, the maximum height of each frame rail shall not exceed the 10-1/4" dimension by more than 1/2" in order to ensure the lowest possible body height for ease of access as well as the lowest possible vehicle center of gravity for maximum stability.

There shall be a minimum of six (6) cross-members joining the two (2) frame rails in order to make the frame rigid and hold the rails/liners in alignment. The cross-members shall be a combination of a formed steel C-channel design along with heavy duty steel fabricated designs as required for the exact chassis configuration. The cross-members shall be attached to the frame rails with not less than four (4) bolts at each end arranged in a bolt pattern to adequately distribute the cross-member load into the rail/liner and minimize stress concentrations.

All frame fasteners shall be high-strength Grade 8, flanged-head threaded bolts and nuts for frame strength, durability, and ease of repair. The nuts shall be Stover locknuts to help prevent loosening. The frame fasteners shall be tightened to the proper torque at the time of assembly.

The frame rails shall be zinc plated (galvanized) and powder coated for improved corrosion resistance. The galvanization shall be a minimum of 4 mils thick and done in accordance with ASTM A123. The powder coat shall be 6.5 mils thick (+/- 1.5 mils) and pass ASTM D3359 testing.

The frame cross-members and frame mounted components (suspensions, axles, air tanks, battery boxes, fuel tank, etc.) shall be painted black.

The apparatus manufacturer shall supply a full lifetime frame warranty including cross-members against defects in materials or workmanship. Warranties that provide a lifetime warranty for only the frame rails, but not the cross-members, are not acceptable. NO EXCEPTIONS.

The custom chassis frame shall have a WHEEL ALIGNMENT in order to achieve maximum vehicle road performance and to promote long tire life. The alignment shall conform to the manufacturer's internal specifications. All wheel lug nuts and axle U-bolt retainer nuts shall be tightened to the proper torque at the time of alignment. The wheel alignment documentation shall be made available at delivery upon request.

AXLES

Front Shock Absorbers

The front suspension shall be furnished with two (2) heavy duty, double acting shock absorbers, one (1) on each side.

Rear Axle

The vehicle shall be equipped with an ArvinMeritor RS-25-160 single rear axle with single-reduction hypoid gearing and a manufacturer's rated capacity of 27,000 lbs. The axle shall be equipped with oil-lubricated wheel bearings with ArvinMeritor oil seals.

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The rear axle hubs shall be made from ductile iron and shall be designed for use with 10 hole hub-piloted wheels to improve wheel centering and extend tire life.

A 2-year/unlimited miles parts and 2-year labor rear axle warranty shall be provided as standard by ArvinMeritor Automotive.

Front Axle

The vehicle shall utilize an ArvinMeritor FL-941 front axle with a rated capacity of 18,000 lbs. It shall have "easy steer" knuckle pin bushings and 68.5" kingpin centers. The axle shall be of I-beam construction and utilize grease-lubricated wheel bearings. The vehicle shall have a nominal cramp angle of 45 degrees, plus two (+ 2) degrees to minus three (- 3) degrees including front suction applications.

The front axle hubs shall be made from ductile iron and shall be designed for use with 10 hole hub-piloted wheels in order to improve wheel centering and extend tire life.

The front springs shall be parabolic tapered, minimum 4" wide x 54" long (flat), minimum three (3) leaf, progressive rate with bronze bushings and a capacity of 18,000 lbs. at the ground.

Tapered leaf springs provide a 20% ride improvement over standard straight spring systems. Supporting documentation/data shall be provided upon request.

The vehicle shall be equipped with a Sheppard model M-110 integral power steering gear. The steering assembly shall be rated to statically steer a maximum front axle load of 18,000 lbs. Relief stops shall be provided to reduce system pressure upon full wheel cut. The system shall operate mechanically should the hydraulic system fail.

A 2-year/unlimited miles parts and 2-year labor axle warranty shall be provided as standard by ArvinMeritor Automotive.

In order to achieve maximum vehicle road performance and to promote long tire life, there shall be a wheel alignment. The alignment shall conform to the manufacturer's internal specifications. All wheel lug nuts and axle U-bolt retainer nuts shall be tightened to the proper torque at the time of alignment. The wheel alignment documentation shall be made available at delivery.

SUSPENSION

Rear Suspension

The rear suspension shall be a pair of linear-rate leaf springs with auxiliary "helper" leaf springs and bronze bushings. The variable-rate springs with auxiliary springs ensure that the vehicle rides and handles smoothly under both loaded and unloaded conditions. The suspension shall be rated for the maximum axle capacity.

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WHEELS

Front Wheels

The front wheels shall be steel hub-piloted disc sized appropriately for the tires.

Front Wheel Trim Package

The front wheels shall have stainless steel lug nut covers (for use with aluminum wheels) or chrome plated plastic (for use with steel wheels). The front axle shall be covered with American made Real Wheels brand mirror finish, 304L grade, non-corrosive stainless steel universal baby moons. All stainless steel baby moons shall carry a lifetime warranty plus a 2 year re-buffing policy. There shall be two (2) baby moons and twenty (20) lug nut covers.

Rear Wheels

There shall be four hub-piloted steel disc wheels sized appropriately for the tires.

Rear Wheel Trim Package, Single Axle

The rear wheels shall have stainless steel lug nut covers (chrome plated steel lug nut covers not acceptable), or American made chrome plated plastic lug nut covers. The rear axle shall be covered with American made Real Wheels brand mirror finish, 304L grade, non-corrosive stainless steel, spring clip band mount high hats, DOT user friendly. All stainless steel high hats shall carry a lifetime warranty plus a 2 year re-buffing policy. There shall be two (2) high hats and twenty (20) lug nut covers.

TIRES

Front Tires

Front tires shall be two Michelin 315/80R22.5 tubeless type 20 PR radial tires with XZA-1 highway tread.

Tires with wheels shall have the following weight capacity and speed rating:

18,000 lbs. @ 75 MPH

The tires and wheels shall conform to the Tire and Rim Association requirements.

Rear Tires

The rear tires shall be Michelin 12R22.5 tubeless type radial tires with XDN2 all weather tread.

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The tires with wheels shall have the following weight capacity:

27,000 lbs. (dual) @ 75 MPH

The wheels and tires shall conform to the Tire and Rim Association requirements.

Tire Pressure Indicators

The apparatus shall be provided with Real Wheels AirGuard LED tire pressure indicating valve stem caps. When the tire is under inflated by 5-10 PSI, the LED indicator on the cap shall flash red. The indicator housings shall be shock resistant and constructed from polished stainless steel. The indicators shall be calibrated by attaching to valve stem of a tire at proper air pressure per load ratings and easily re-calibrated by simply removing and re-installing them during service.

Real Wheel Part number RWC1234 was superseded by RWC1235 as of June 2015

BRAKE SYSTEM

Front Brakes

The front axle shall be equipped with Meritor DiscPlus EX225H 17 inch disc brakes.

The brakes shall be covered by the manufacturer`s standard warranty which is three years, unlimited mileage and parts only.

Rear Brakes

The rear axle shall be equipped with ArvinMeritor 16-1/2" x 7" S-cam brakes with cast brake drums. Q-Plus shoes shall be provided with up to 24,000 lb. axle ratings and P-Type shoes with over 24,000 lb. axle ratings.

The rear axle brakes shall be furnished with automatic slack adjusters. ArvinMeritor brand shall be supplied on RS-24-160 and RS-25-160 axles, and Haldex brand shall be supplied on RS-26-185 and RS-30-185 axles.

A 3 year/unlimited miles parts and 3 year labor rear brake warranty shall be provided as standard by ArvinMeritor Automotive. The warranty shall include bushings, seals, and cams.

Brake System

The vehicle shall be equipped with air-operated brakes and an anti-lock braking system (ABS). The brake system shall meet or exceed the design and performance requirements of the current Federal Motor Vehicle Safety Standard (FMVSS)-121, and the test requirements of the current NFPA 1901 Standard.

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A dual-treadle brake valve shall correctly proportion the braking power between the front and rear systems. The air system shall be provided with a rapid pressure build-up feature, designed to meet current NFPA 1901 requirements, to allow the vehicle to begin its emergency response as quickly as possible.

A pressure-protection valve shall be installed to prevent use of the air horns or other air-operated devices should the air system pressure drop below 85 psi. This feature is designed to prevent inadvertent actuation of the emergency/parking brakes while the vehicle is in motion.

Two (2) air pressure needle gauges, one (1) each for front and rear air pressure, with a warning light and buzzer shall be installed at the driver`s instrument panel.

The braking system shall be provided with a minimum of three (3) air tank reservoirs for a total air system capacity of 5,214 cu. in. One (1) reservoir shall serve as the wet tank and a minimum of one (1) tank shall be supplied for each of the front and rear axles. The total system shall carry a sufficient volume of air to comply with FMVSS-121.

Tank Capacities in Cubic Inches:

Wet	Front	Rear	Total
1,738	1,738	1,738	5,214

Spring-actuated emergency/parking brakes shall be installed on the rear axle.

A Bendix-Westinghouse SR-1 valve, in conjunction with a double check valve system, shall provide automatic emergency brake application when the air brake system pressure falls below 40 psi in order to safely bring the vehicle to a stop in case of an accidental loss of braking system air pressure.

A four-channel Wabco ABS shall be provided to improve vehicle stability and control by reducing wheel lock-up during braking. This braking system shall be fitted to both front and rear axles. All electrical connections shall be environmentally-sealed for protection against water, weather, and vibration.

The system shall constantly monitor wheel behavior during braking. Sensors on each wheel transmit wheel speed data to an electronic processor, which shall detect approaching wheel lock-up and instantly modulate (or pump) the brake pressure up to five (5) times per second to prevent wheel lock-up. Each wheel shall be individually controlled. To improve field performance, the system shall be equipped with a dual-circuit design configured in a diagonal pattern. Should a malfunction occur in one circuit, that circuit shall revert to normal braking action. A warning light at the driver`s instrument panel shall signal a malfunction.

The system shall also be configured to work in conjunction with all auxiliary engine, exhaust, or driveline brakes to prevent wheel lock-up.

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To improve maintenance troubleshooting, provisions in the system for an optional diagnostic tester shall be provided. The system shall test itself each time the vehicle is started, and a dash-mounted light shall go out once the vehicle is moving above 4 MPH.

A 3 year/300,000 mile parts and labor Anti-Locking Braking System (ABS) warranty shall be provided as standard by Meritor Automotive.

Park Brake Release

One (1) Bendix-Westinghouse PP-5 parking brake control valve shall be supplied on the lower dash panel within easy reach of the driver.

AIR SYSTEM

Air Dryer

The chassis air system shall be equipped with a Bendix-Westinghouse AD-9 air dryer to remove moisture from the air in order to help prevent the air lines from freezing in cold weather and prolong the life of the braking system components.

Air Inlet

A 1/4" brass quick-release air inlet with a male connection shall be provided. The inlet shall allow a shoreline air hose to be connected to the vehicle, discharging air directly into the wet tank of the air brake system. It shall be located driver door jamb.

Air Lines

Air brake lines shall be constructed of color coded nylon tubing routed in a manner to protect them from damage. Brass fittings shall be provided.

Air Horns

Dual air horns shall be provided, connected to the chassis air system. The horns shall be mounted through the front bumper. The front bumper shall have two (2) holes punched to accommodate the air horns. A pressure protection valve shall be installed to prevent the air brake system from being depleted of air pressure.

ENGINE & TRANSMISSION

Transmission Selector

A push-button transmission shift module, Allison model 29538373, shall be located to the right side of the steering column within easy reach of the driver. The shift position indicator shall be

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indirectly lit for after dark operation. The shift module shall have a “Do Not Shift” light and a “Service” indicator light. The shift module shall have means to enter a diagnostic mode and display diagnostic data including oil life monitor, filter life monitor, transmission health monitor and fluid level. A transmission temperature gauge with warning light and buzzer shall be installed on the cab instrument panel.

Transmission Fluid

The transmission fluid shall be TransSynd synthetic.

Vehicle Speed

The maximum speed shall be electronic limited to 68 MPH as required by NFPA 1901.

Note: Maximum speed may be set at 65 MPH due to tire rating.

Engine/Transmission Package

Engine

The vehicle shall utilize a Cummins L9 engine as described below:

- 450 maximum horsepower at 2100 rpm
- 1250 lb-ft peak torque at 1400 rpm
- Six (6) cylinder, charge air cooled, 4-cycle diesel
- 543 cu. in. (8.9 liter) displacement - 4.49 in bore x 5.69 in stroke
- 16.6:1 compression ratio
- Interact System Controlled Viable Geometry Turbocharged
- Engine shall be equipped with Full-Authority Electronics
- Electronic Timing Control fuel system
- Fuel cooler (when equipped with a fire pump)
- Fleetguard FS1022 fuel filter with integral water separator and water-in-fuel sensor approved by Cummins for use on the ISL engine
- Fleetguard LF9009 Venturi Combo combination full-flow/by-pass oil filter approved by Cummins for use on the ISL engine
- Engine lubrication system, including filter, shall have a minimum capacity of 25 quarts
- Delco-Remy 39 MT-HD 12-volt starter
- Cummins 18.7 cubic foot per minute (cfm) air compressor
- Corrosion inhibitor additive for coolant system
- After treatment system consisting of a oxidation catalyst and diesel particulate filter and selective catalyst reduction system
- Ember separator compliant with current NFPA 1901 standard
- The engine shall be compliant with 2017 EPA Emission standards

The engine air intake shall draw air through the front cab grill. The intake opening shall be located on the officer (right) side behind front cab face with a plenum that directs air to the air

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filter. The air cleaner intake piping shall be made from aluminized steel tubing with flexible rubber hoses. The intake piping clamps shall be heavy-duty, constant-torque, T-bolt style to ensure proper sealing under all temperatures in order to keep dust and other contaminants out of the engine intake air stream and protect the engine.

The air cleaner shall be an 11" diameter K&N for lower restriction and high air flow. The filtration media shall be washable and easily accessed for service. The air filter shall have a 3 year / 300,000 mile warranty.

The engine exhaust piping shall be a minimum of 4" diameter welded stainless steel tubing. The after treatment system shall be mounted horizontally under the right-hand frame rail in back of the cab in order to minimize heat transmission to the cab and its occupants. The exhaust shall be directed away from the vehicle on the right side ahead of the rear wheels in order to keep exhaust fumes as far away as possible from the cab and pump operator position.

A 5-year/100,000-miles parts and labor warranty shall be provided as standard by Cummins.

A copy of the Engine Installation Review stating the engine installation meets Cummins recommendations shall be provided as requested. The engine installation shall not require the operation of any type of "power-down" feature to meet engine installation tests.

Transmission

The vehicle shall utilize an Allison EVS3000P, electronic, 5-speed automatic transmission.

A push button shift module shall be located right side of the steering column, within easy reach of the driver. The shift position indicator shall be indirectly lit for after-dark operation. The shift module shall have a "Do Not Shift" light and a "Service" indicator light that are clearly visible to the driver. The shift module shall have means to enter a diagnostic mode and display diagnostic data.

A transmission oil temperature gauge with warning light and buzzer shall be installed on the cab instrument panel to warn the driver of high oil temperatures that may damage the transmission.

The transmission shall have a gross input torque rating of 1250 lb.-ft. and a gross input power rating of 450 HP.

The gear ratios shall be as follows:

1 - 3.49

2 - 1.86

3 - 1.41

4 - 1.00

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5 - .75

R - 5.03

The transmission shall have an oil capacity of 23 quarts and shall be equipped with a fluid level sensor (FLS) system, providing direct feedback of transmission oil level information to the driver.

A water-to-oil transmission oil cooler shall be provided to ensure proper cooling of the transmission when the vehicle is stationary (no air flow). Air-to-oil transmission oil coolers, which require constant air flow, are not acceptable.

The transmission shall be provided with two (2) engine-driven PTO openings located at the 4 o'clock and 8 o'clock positions for flexibility in installing pto-driven equipment.

The automatic transmission shall be equipped with a power lock-up device. The transmission lock-up shall prevent down shifting of the transmission when the engine speed is decreased during pump operations, thereby maintaining a constant gear ratio for safe operation of the pump. The transmission lock-up shall be automatically activated when the pump is engaged in gear. The transmission lock-up shall be automatically deactivated when the pump is disengaged for normal road operation.

A 5-year/unlimited miles parts and labor warranty shall be provided as standard by Allison Transmission.

Automatic Shift to Neutral

The transmission shall be programmed to comply with NFPA 1901 and automatically shift to neutral upon application of the parking brake.

SECONDARY BRAKING

Jacobs Engine Brake

One (1) Jacobs engine brake shall be installed to assist in slowing and controlling the vehicle as required by NFPA 1901 for vehicles with gross vehicle weight ratings (GVWR) of 36,000 lbs. or greater. An on-off control switch and a high-medium-low selector switch shall be mounted in the cab accessible to the driver.

When activated, the Jacobs engine brake shall cut off the flow of fuel to the cylinders and alter the timing of the exhaust valves. This shall transform the engine into a high-pressure air compressor, driven by the wheels, and the horsepower absorbed by the engine in this mode shall slow the vehicle. The selector switch allows the driver to select the amount of retarding power.

When the on-off switch is in the "on" position, the engine brake shall be automatically applied whenever the accelerator is in the idle position and the automatic transmission is in the lock-up

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mode. If the accelerator is depressed or if the on-off switch is placed in the “off” position, the engine brake shall immediately release and allow the engine to return to its normal function.

Transmission Programming

The transmission shall include the Allison 2nd gear Pre-Select feature. This option will direct the transmission to down shift to second gear when the throttle is released and the Jacobs engine brake (or Telma retarder wired to activate with release of throttle) is engaged. This feature is designed to increase brake life and aid vehicle braking.

COOLING PACKAGE

Engine Cooling Package

Radiator

The cooling system shall include an aluminum tube-and-fin radiator with a minimum of 1,408 total square inches of frontal area to ensure adequate cooling under all operating conditions. There shall be a drain valve in the bottom tank to allow the radiator to be serviced. A sight glass shall be included for quick fluid level assessment. The radiator shall be installed at the prescribed angle in order to achieve the maximum operational effectiveness. This shall be accomplished according to established work instructions and properly calibrated angle measurement equipment.

Silicone Hoses

All radiator and heater hoses shall be silicone. Pressure compensating band clamps shall be used to eliminate hose pinching on all hoses 3/4" diameter and larger. All radiator hoses shall be routed, loomed, and secured so as to provide maximum protection from chafing, crushing, or contact with other moving parts.

Coolant

The cooling system shall be filled with a 50/50 mixture of water and antifreeze/coolant conditioner to provide freezing protection to minus 40 (- 40) degrees F for operation in severe winter temperatures.

Coolant Recovery

There shall be a coolant overflow recovery system provided.

Charge Air Cooler System

The system shall include a charge air cooler to ensure adequate cooling of the turbocharged air for proper engine operation and maximum performance.

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Charge Air Cooler Hoses

Charge air cooler hoses shall be made from high-temperature, wire-reinforced silicone to withstand the extremely high temperatures and pressures of the turbocharged air. The hoses shall incorporate a flexible hump section to allow motion and misalignment of the engine relative to the charge air cooler. Charge air cooler hose clamps shall be heavy-duty, constant-torque, T-bolt clamps to ensure proper sealing under all temperatures in order to keep dust and other contaminants out of the engine intake air stream and protect the engine.

Fan/Shroud

The fan shall be 30" in diameter with eleven (11) blades for maximum airflow and dynamic balance. It shall be made of nylon for strength and corrosion resistance. The fan shall be installed with grade 8 hardware which has been treated with thread locker for additional security. A fan shroud attached to the radiator shall be provided to prevent recirculation of engine compartment air around the fan in order to maximize the cooling airflow through the radiator. The fan shroud shall be constructed of fiber-reinforced high temperature plastic. The shroud shall be specifically formed with curved surfaces which improves air flow and cooling.

Transmission Cooler

The cooling system shall include a liquid-to-liquid transmission cooler capable of cooling the heat generated from the transmission. When a transmission retarder is selected, the cooler shall have an increased capacity to handle the additional heat load.

Engine Cooler

A water to water type heat exchanger shall be provided to lower the chassis engine water temperature during prolonged pumping operations.

The heat exchanger shall be installed in the engine coolant system in such a manner as to allow cool pump water to circulate around engine water, thus forming a true heat exchanger action. Cooler inlet and outlet shall be continuous, preventing intermixing of engine coolant and pump water.

FUEL SYSTEM

Fuel System

One (1) 50 gallon fuel tank shall be provided. The tank shall be of an all-welded, aluminized-steel construction with anti-surge baffles and shall conform to all applicable Federal Highway Administration (FHWA) 393.65 and 393.67 standards. The tank shall be mounted below the frame rails at the rear of the chassis for maximum protection. The tank shall be secured with two (2) wrap-around T-bolt type stainless steel straps. Each strap shall be fitted with protective

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rubber insulation and shall be secured with grade 8 hardware. This design allows for tank removal from below the chassis.

The fuel tank shall be equipped with a 2” diameter filler neck. The filler neck shall extend to the rear of the vehicle behind the rear tires and away from the heat of the exhaust system as required by NFPA 1901 Standard for Automotive Fire Apparatus. The open end of the filler neck shall be equipped with a twist-off filler cap with a retaining chain.

The tank shall be plumbed with top-draw and top-return fuel lines in order to protect the lines from road debris. Bottom-draw and/or bottom-return fuel lines are not acceptable. A vent shall be provided at the top of the tank. The vent shall be connected to the filler neck to prevent splash-back during fueling operations. A .50” NPT drain plug shall be provided at the bottom of the tank.

The tank shall have a minimum useable capacity of 50 gallons of fuel with a sufficient additional volume to allow for thermal expansion of the fuel without overflowing the vent.

A mechanical fuel pump shall be provided and sized by the engine manufacturer as part of the engine.

Fuel Line

All fuel lines shall be rubber.

ALTERNATOR

320 Amp Alternator

There shall be a 320 amp Leece Neville alternator installed as specified. The alternator shall be a Leece Neville 4890JB series brushless type with integral rectifier and adjustable voltage regulator with an output of 275 amps per NFPA 1901 rating (320 amps per SAE J56).

BATTERIES

Battery System

The manufacturer shall supply four (4) heavy duty Group 31 12-volt maintenance-free batteries. Each battery shall be installed and positioned so as to allow easy replacement of any single battery. Each battery shall be equipped with carrying handles to facilitate ease of removal and replacement. There shall be two (2) steel frame mounted battery boxes, one (1) on the left frame rail and one (1) on the right frame rail. Each battery box shall be secured to the frame rail with Grade 8 hardware. Each battery box shall hold (2) batteries. The batteries shall have a minimum combined rating of 4,000 (4 x 1000) cold cranking amps (CCA) @ 0 degrees Fahrenheit and 820 (4 x 205) minutes of reserve capacity for extended operation. The batteries shall have 3/8-16 threaded stud terminals to ensure tight cable connections. The battery stud terminals shall

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each be treated with concentrated industrial soft-seal after cable installation to promote corrosion prevention. The positive and negative battery stud terminals and the respective cables shall be clearly marked to ensure quick and mistake-proof identification.

Batteries shall be placed on non-corrosive rubber matting and secured with hold-down brackets to prevent movement, vibration, and road shock. The hold-down bracket J-hooks shall be cut to fit and shall have all sharp edges removed. The batteries shall be placed in plastic trays to provide preliminary containment should there be leakage of hazardous battery fluids. There shall be two (2) plastic trays, each containing (2) batteries. Each battery tray shall be equipped with a rubber vent hose to facilitate drainage. The rubber vent hose shall be routed to drain beneath the battery box. The batteries shall be positioned in well-ventilated areas.

One (1) positive and one (1) negative jumper stud shall be provided.

Batteries shall have a warranty of twelve (12) months that shall commence upon the date of delivery of the apparatus.

CHASSIS MISC

Engine Fan Clutch

The engine shall be equipped with a thermostatically controlled engine cooling fan. The fan shall be belt driven and utilize a clutch to engage when the engine reaches a specified temperature and / or the water pump is engaged (if equipped).

When disengaged, the fan clutch shall allow for improved performance from optional floor heaters, reduced cab interior noise, increased acceleration and improved fuel economy.

The fan shall be equipped with a fail-safe engagement so that if the clutch fails the fan shall engage to prevent engine overheating.

Drivelines

Drivelines shall have a heavy duty metal tube and shall be equipped with Spicer 1710HD universal joints to allow full-transmitted torque to the axle(s). Drive shafts shall be axially straight, concentric with axis and dynamically balanced.

Front Tow Eyes

Two (2) 3/4" thick heavy duty steel tow eyes shall be securely attached to the chassis frame rails at the front of the apparatus. They shall be mounted down below the bumper / cab.

Rear Tow Eyes

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Two (2) heavy duty tow eyes made of 3/4" (0.75") thick steel having 2-1/2" diameter holes shall be mounted below the body at the rear of the vehicle to allow towing (not lifting) of the apparatus without damage. The tow eyes will be welded to the lower end of a 5" steel channel that is bolted at the end of the chassis frame rails. The tow eyes shall be painted chassis black.

DEF Tank

A diesel exhaust fluid (DEF) tank with a five (5) gallon capacity shall be provided.

The DEF tank shall include a heater fed by hot water directly from the engine block to prevent the DEF from becoming too cool to operate correctly per EPA requirements. The tank shall include a temperature sensor to control the heater control valve that controls the feed of hot water from the engine to the DEF tank heater.

A sender shall be provided in the DEF tank connected to a level gauge on the cab dash.

The tank shall be located left side below rear of cab.

Power Steering Cooler

A heat exchanger (cooler) shall be installed to maintain desired power steering fluid temperature. The cooler shall be a model DH-073-1-1 with air / oil design rated at 6300 BTU/HR @10 GPM. The cooler shall be mounted in front of the radiator and plumbed with #10 lines.

CAB

Medium Cab

The vehicle shall be distinguished by an all-welded aluminum and fully enclosed tilt cab. The cab shall be designed exclusively for fire/rescue service and shall be pre-engineered to ensure long life. It shall incorporate an integral welded substructure of high-strength aluminum alloy extrusions that creates an occupant compartment that is essentially a protective perimeter. The end result is a distinctive structure that is aesthetically appealing, functionally durable, and characterized by increased personnel safety.

The cab shall be constructed from 3/16" (0.188") 3003 H14 aluminum alloy plate roof, floor, and outer skins welded to a high-strength 6063-T6 aluminum alloy extruded subframe. Wall supports and roof bows are 6061 T6 aluminum alloy. This combination of a high-strength, welded aluminum inner structure surrounded on all sides by load-bearing, welded aluminum outer skins provides a cab that is strong, lightweight, corrosion-resistant, and durable.

The inner structure shall be designed to create an interlocking internal "roll-cage" effect by welding two (2) 3" x 3" x 0.188" wall-thickness 6063-T5 aluminum upright extrusions between the 3" x 3" x 0.375" wall-thickness 6061-T6 roof crossbeam and the 2.25" x 3" x 0.375" wall-

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thickness 6063-T6 subframe structure in the front. An additional two (2) aluminum upright extrusions within the back-of-cab structure shall be welded between the rear roof perimeter extrusion and the subframe structure in the rear to complete the interlocking framework. The four (4) upright extrusions -- two (2) in the front and two (2) in the rear -- shall be designed to effectively transmit roof loads downward into the subframe structure to help protect the occupant compartment from crushing in a serious accident. All joints shall be electrically seam welded internally using aluminum alloy welding wire.

The subframe structure shall be constructed from high-strength 6061-T6 aluminum extrusions welded together to provide a structural base for the cab. It shall include a side-to-side C-channel extrusion across the front, with 3/4" x 2-3/4" (.75" x 2.75") full-width crossmember tubes spaced at critical points between the front and rear of the cab.

The cab floor shall be constructed from 3/16" (0.188") 3003 H14 smooth aluminum plate welded to the subframe structure to give the cab additional strength and to help protect the occupants from penetration by road debris and under-ride collision impacts.

The cab roof shall be constructed from 3/16" (0.188") 3003 H14 aluminum treadplate supported by a grid of fore-aft and side-to-side aluminum extrusions to help protect the occupants from penetration by falling debris and downward-projecting objects. Molded fiberglass or other molded fiber-reinforced plastic roof materials are not acceptable.

The cab roof perimeter shall be constructed from 4" x 6-5/8" (4" x 6.625") 6063-T5 aluminum extrusions with integral drip rails. Cast aluminum corner joints shall be welded to the aluminum roof perimeter extrusions to ensure structural integrity. The roof perimeter shall be continuously welded to the cab roof plate to ensure a leak-free roof structure.

The cab rear skin shall be constructed from 3/16" (0.188") 3003 H14 aluminum plate. Structural extrusions shall be used to reinforce the rear wall.

The left-hand and right-hand cab side skins shall be constructed from 3/16" (0.188") 3003 H14 smooth aluminum plate. The skins shall be welded to structural aluminum extrusions at the top, bottom, and sides for additional reinforcement.

The cab front skins shall be constructed from 3/16" (0.188") 3003 H14 smooth aluminum plate. The upper portion shall form the windshield mask, and the lower portion shall form the cab front. Each front corner shall have a full 9" outer radius for strength and appearance. The left-hand and right-hand sides of the windshield mask shall be welded to the left-hand and right-hand front door frames, and the upper edge of the windshield mask shall be welded to the cab roof perimeter extrusion for reinforcement. The cab front shall be welded to the subframe C-channel extrusion below the line of the headlights to provide protection against frontal impact.

Cab Exterior

The exterior of the cab shall be 96" wide x 130" long to allow sufficient room in the occupant compartment for up to eight (8) fire fighters. The cab roof shall be approximately 101" above

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the ground with the flat roof option. The back-of-cab to front axle length shall be a minimum of 58”.

Front axle fenderette trim shall be brushed aluminum for appearance and corrosion resistance. Bolt-in front wheel well liners shall be constructed of 3/16” (0.188”) composite material to provide a maintenance-free, damage-resistant surface that helps protect the underside of the cab structure and components from stones and road debris.

The cab windshield shall be of a two-piece replaceable design for lowered cost of repair. The windshield shall be made from 1/4” (0.25”) thick curved, laminated safety glass with a 75% light transmittance automotive tint. A combined minimum viewing area of 2,700-sq. in. shall be provided. Forward visibility to the ground for the average (50th percentile) male sitting in the driver’s seat shall be no more than 11 feet 7 inches from the front of the cab to ensure good visibility in congested areas.

Cab Mounts and Cab Tilt System

The cab shall be independently mounted from the body and chassis to isolate the cab structure from stresses caused by chassis twisting and body movements. Mounting points shall consist of two (2) forward-pivoting points, one (1) on each side; two (2) intermediate rubber load-bearing cushions located midway along the length of the cab, one on each side; and two (2) combination rubber shock mounts and cab latches located at the rear of the cab, one (1) on each side.

An electric-over-hydraulic cab tilt system shall be provided to provide easy access to the engine. It shall consist of two (2) large-diameter, telescoping, hydraulic lift cylinders, one (1) on each side of the cab, with a frame-mounted electric-over-hydraulic pump for cylinder actuation.

Safety flow fuses (velocity fuses) shall be provided in the hydraulic lift cylinders to prevent the raised cab from suddenly dropping in case of a burst hydraulic hose or other hydraulic failure. The safety flow fuses shall operate when the cab is in any position, not just the fully raised position.

The hydraulic pump shall have a manual override system as a backup in the event of an electrical failure. Lift controls shall be located in a compartment to the rear of the cab on the right side of the apparatus. A parking brake interlock shall be provided as a safety feature to prevent the cab from being tilted unless the parking break is set.

The entire cab shall be tilted through a 42-45 degree arc to allow for easy maintenance of the engine, transmission and engine components. A positive-engagement safety latch shall be provided to lock the cab in the full tilt position to provide additional safety for personnel working under the raised cab.

In the lowered position, the cab shall be locked down by two (2) automatic, spring-loaded cab latches at the rear of the cab. A ”cab ajar” indicator light shall be provided on the instrument panel to warn the driver when the cab is not completely locked into the lowered position.

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Cab Interior

The interior of the cab shall be of the open design with an ergonomically-designed driver area that provides ready access to all controls as well as a clear view of critical instrumentation.

The engine cover between the driver and the officer shall be a low-rise contoured design to provide sufficient seating and elbow room for the driver and the officer. The engine cover shall blend in smoothly with the interior dash and flooring of the cab. An all-aluminum subframe shall be provided for the engine cover for strength. The overall height of the engine enclosure shall not exceed 23" from the floor at each side and 27" in the center section. The engine cover shall not exceed 41" in width at its widest point.

The rear portion of the engine cover shall be provided with a lift-up section to provide easy access for checking transmission fluid, power steering fluid, and engine oil without raising the cab. The engine cover insulation shall consist of 3/4" dual density fiberglass composite panels with foil backing manufactured to specifically fit the engine cover without modification to eliminate "sagging" as found with foam insulation. The insulation shall meet or exceed DOT standard MVSS 302-1 and V-0 (UI subject 94 Test).

All cab floors shall be covered with a black rubber floor mat that provides an aggressive slip-resistant surface in accordance with current NFPA 1901.

A minimum of 57.25" of floor-to-ceiling height shall be provided in the front seating area of the cab and a minimum of 67" floor-to-ceiling height shall be provided in the rear seating area. A minimum of 36" of seated headroom at the "H" point shall be provided over each fender well.

The floor area in front of the front seat pedestals shall be no less than 20.5" side to side by 25.0" front to rear for the driver and no less than 20.5" side to side by 26.0" front to rear for the officer to provide adequate legroom.

Battery jumper studs shall be provided to allow jump-starting of the apparatus without having to tilt the cab.

All exposed interior metal surfaces shall be pretreated using a corrosion prevention system.

The interior of the cab shall be insulated to ensure the sound (dbA) level for the cab interior is within the limits stated in the current edition of NFPA 1901. The insulation shall consist of 2 oz. wadding and 1/4" (0.25") foam padding. The padding board shall be backed with 1/4" (0.25") thick reflective insulation. The backing shall be spun-woven polyester. Interior cab padding shall consist of a rear cab headliner, a rear wall panel, and side panels between the front and rear cab doors.

The overhead console and heater cover shall be covered with thermoformed, non-metallic, non-fiber trim pieces to provide excellent scuff and abrasion resistance, as well as chemical stain resistance. The thermoformed material shall comply with Federal Motor Vehicle Safety Standard (FMVSS) 302 for flammability of interior materials.

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The vehicle shall use a seven-position tilt and telescopic steering column to accommodate various size operators. An 18" padded steering wheel with a center horn button shall be provided.

A full-width overhead console shall be mounted to the cab ceiling for placement of siren and radio heads, and for warning light switches. The console shall be made from a thermoformed, non-metallic material and shall have easily removable mounting plates.

Storage areas, with hinged access doors, shall be provided below the driver and officer seats. The driver side compartment shall be approximately 19.25" x 17.75" x 5.75" high and the officer side compartment shall be approximately 18.25" x 22.5" x 11" high (19.25" x 17.75" x 5.75" w/ air ride).

The front cab steps shall be a minimum of 8" deep x 24" wide. The first step shall be no more than 24.0" above the ground with standard tires in the unloaded condition per NFPA 1901 standards. The rear cab steps shall be a minimum 12" deep x 21" wide. The first step shall be no more than 24.0" above the ground with standard tires in the unloaded condition per NFPA 1901 standards. The rear steps shall incorporate intermediate steps for easy access to the cab. The steps are to be located inside the doorsill, where they are protected against mud, snow, ice, and weather. The step surfaces shall be aluminum diamond plate with a multi-directional, aggressive gripping surface incorporated into the aluminum diamond plate in accordance with current NFPA 1901.

A black rubber grip handle shall be provided on the interior of each front door below the door window to ensure proper hand holds while entering and exiting the cab. An additional black rubber grip handle shall be provided on the left and right side windshield post for additional handholds.

Cab Doors

There shall be reflective signs on each cab door in compliance with all NFPA requirements.

Four (4) side-opening cab doors shall be provided. Doors shall be constructed of a 3/16" (0.188") aluminum plate outer material with an aluminum extruded inner framework to provide a structure that is as strong as the side skins.

Front cab door openings shall be approximately 36" wide x 71.5" high, and the rear cab door openings shall be approximately 33.75" wide x 73" high. The front doors shall open approximately 75 degrees, and the rear doors shall open approximately 80 degrees.

The doors shall be securely fastened to the doorframes with full-length, stainless steel piano hinges, with 3/8" (0.375") diameter pins for proper door alignment, long life, and corrosion resistance. Mounting hardware shall be treated with corrosion-resistant material prior to installation. For effective sealing, an extruded rubber gasket shall be provided around the entire perimeter of all doors.

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Stainless steel paddle-style door latches shall be provided on the interiors of the doors. The latches shall be designed and installed to protect against accidental or inadvertent opening as required by NFPA 1901.

The front door windows shall provide a minimum viewing area of 530 sq. in. each. The rear door windows shall provide a minimum viewing area of 500 sq. in. each. All windows shall have 75% light transmittance automotive safety tint. Full roll-down windows shall be provided for the front cab doors with worm gear drive cable operation for positive operation and long life. Scissors or gear-and-sector drives are not acceptable.

Cab Instruments and Controls

Two (2) pantograph-style windshield wipers with two (2) separate electric motors shall be provided for positive operation. Air-operated windshield wipers are not acceptable because of their tendency to accumulate moisture, which can lead to corrosion or to freezing in cold weather. The wipers shall be a wet-arm type with a one (1) gallon washer fluid reservoir, an intermittent-wipe function, and an integral wash circuit. Wiper arm length shall be approximately 28", and the blade length approximately 20". Each arm shall have a 70 degree sweep for full coverage of the windshield.

An overhead mounted heater and defroster with a minimum capacity of 60,000 Btu/hr and all necessary controls shall be mounted in the cab. The airflow system shall consist of two (2) levels, defrost and cab, and shall have fresh air and defogging capabilities.

Cab controls shall be located on the cab instrument panel in the dashboard on the driver's side where they are clearly visible and easily reachable. Emergency warning light switches shall be installed in removable panels for ease of service. The following gauges and/or controls shall be provided:

- Master battery switch/ignition switch (rocker with integral indicator)
- Starter switch/engine stop switch (rocker)
- Heater and defroster controls with illumination
- Marker light/headlight control switch with dimmer switch
- Self-canceling turn signal control with indicators
- Windshield wiper switch with intermittent control and washer control
- Master warning light switch
- Transmission oil temperature gauge
- Air filter restriction indicator
- Pump shift control with green "pump in gear" and "o.k. to pump" indicator lights
- Parking brake controls with red indicator light on dash
- Automatic transmission shift console
- Electric horn button at center of steering wheel
- Cab ajar warning light on the message center enunciator

Controls and switches shall be identified as to their function by backlit wording adjacent to each switch, or indirect panel lighting adjacent to the controls.

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Fast Idle System

A fast idle system shall be provided and controlled by the cab-mounted switch. The system shall increase engine idle speed to a preset RPM for increased alternator output.

Electrical System

The cab and chassis system shall have a centrally located electrical distribution area. All electrical components shall be located such that standard operations shall not interfere with or disrupt vehicle operation. An automatic thermal-reset master circuit breaker compatible with the alternator size shall be provided. Automatic-reset circuit breakers shall be used for directional lights, cab heater, battery power, ignition, and other circuits. An access cover shall be provided for maintenance access to the electrical distribution area.

A 6 place, constantly hot, and 6 place ignition switched fuse panel and ground for customer-installed radios and chargers shall be provided at the electrical distribution area. Radio suppression shall be sufficient to allow radio equipment operation without interference.

All wiring shall be mounted in the chassis frame and protected from impact, abrasion, water, ice, and heat sources. The wiring shall be color-coded and functionally-labeled every 3" on the outer surface of the insulation for ease of identification and maintenance. The wiring harness shall conform to SAE 1127 with GXL temperature properties. Any wiring connections exposed to the outside environment shall be weather-resistant. All harnesses shall be covered in a loom that is rated at 280 degrees F to protect the wiring against heat and abrasion.

A Vehicle Data Computer (VDC) shall be supplied within the electrical system to process and distribute engine and transmission Electronic Control Module (ECM) information to chassis system gauges, the message center, and related pump panel gauges. Communication between the VDC and chassis system gauges shall be through a 4 wire multiplexed communication system to ensure accurate engine and transmission data is provided at the cab dash and pump. The VDC shall be protected against corrosion, excessive heat, vibration, and physical damage.

Two (2) dual rectangular sealed beam halogen headlights shall be installed on the front of the cab, one (1) on each side, mounted in a polished chrome-plated bezel. The low beam headlights shall activate with the release of the parking brake to provide daytime running lights (DRL) for additional vehicle conspicuity and safety. The headlight switch shall automatically override the DRL for normal low beam/high beam operation.

Cab Crashworthiness Requirement

The apparatus cab shall meet and/or exceed relevant NFPA 1901 load and impact tests required for compliance certification with the following:

Side Impact Dynamic Pre-Load per SAE J2422 (Section 5).

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Testing shall meet and/or exceed defined test using 13,000 ft-lbs. of force as a requirement. The cab shall be subject to a side impact representing the force seen in a roll-over. The cab shall exhibit minimal to no intrusion into the cab's occupant survival space, doors shall remain closed and cab shall remain attached to frame.

Cab testing shall be completed using 13,776 ft-lbs. of force **exceeding** testing requirements.

Quasi-static Roof Strength (proof loads) per SAE J2422 (Section 6) / ECE R29, Annex 3, paragraph 5.

Testing shall meet and/or exceed defined test using 22,046 lbs. of mass as a requirement. Testing shall be completed using platen(s) distributed uniformly over all bearing members of the cab roof structure.

Cab testing shall be completed using 23,561 lbs. of mass **exceeding** testing requirements. The cab shall exhibit minimal to no intrusion into the cab's occupant survival space and doors shall remain closed.

Additional cab testing shall be conducted using 117,336 lbs. of mass **exceeding** testing requirements by **over five (5) times**. The cab shall exhibit minimal to no intrusion into the cab's occupant survival space and the doors shall remain closed.

Frontal Impact per SAE J2420.

Testing shall meet and/or exceed defined test using 32,549 ft-lbs. of force as a requirement. The cab shall be subject to a frontal impact as defined by the standard. The cab shall exhibit minimal to no intrusion into the cab's occupant survival space, doors shall remain closed and cab shall remain attached to frame.

Cab testing shall be completed using 34,844 ft-lbs. of force **exceeding** testing requirements.

Additional cab testing shall be conducted using 65,891 ft-lbs. of force **exceeding** testing requirements by **over two (2) times**.

The cab shall meet all requirements to the above cab crash worthiness; **NO EXCEPTIONS**.

A copy of a certificate or letter verifying compliance to the above performance by an independent, licensed, professional engineer shall be provided upon request.

For any or all of the above tests, the cab manufacturer shall provide either photographs or video footage of the procedure upon request.

ISO Compliance

The manufacturer shall ensure that the construction of the apparatus cab shall be in conformance with the established ISO-compliant quality system. All written quality procedures and other procedures referenced within the pages of the manufacturer's Quality Manual, as well as all

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Work Instructions, Workmanship Standards, and Calibration Administration that directly or indirectly impacts this process shall be strictly adhered to. By virtue of its ISO compliance the manufacturer shall provide an apparatus cab that is built to exacting standards, meets the customer's expectations, and satisfies the customer's requirements.

CAB ROOF

Raised Roof

The rear portion of the cab roof shall be raised 12". This will provide at least 5` 7" standing room. The front of the vista hood shall be sloped at 45 degrees from the vertical. The slope shall begin slightly in front of the centerline of the front axle to leave room for warning lights and air conditioning in front of the vista. The main roof extrusion shall extend up into the vista to strengthen the roof perimeter. Windows shall be provided on front, side, and rear unless otherwise specified.

The rear door shall have an 85" vertical dimension for improved ingress/egress characteristics.

GRILLE

GRILLE, CHROME

The front cooling air intake grille shall be constructed of stainless steel mesh and supported by an impact-resistant chrome plated ABS frame providing no less than 81% open area for excellent cooling performance.

CAB DOORS

Rear Cab Door Position

The cab rear doors shall be moved to the rear of the wheel opening. This door placement facilitates easier entry and egress by reducing the rear facing seat protrusion into the door opening.

Rear door position to the 58" or (medium cab).

Cab Front Door Windows

Driver and officer door windows shall have the support pillar located toward the front of the window. There shall be a vent that can be opened and closed within the window itself, located towards the front.

Rear Cab Door Windows

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The rear cab door windows shall be manually operated to raise and lower.

Cab Front Windows

The front windows of the cab shall have manual actuation.

Cab Door Locks

Each cab door shall have a manual operated door lock actuated from the interior of each respective door. Exterior of each cab door shall be provided with a barrel style keyed lock below the cab door handle.

Cab Door Locks

The cab shall have 1250 keyed door locks provided on exterior doors to secure the apparatus.

Cab Door Exterior Latches

All cab doors shall have "L" style exterior door latches.

Cab Door Handle Scuff Plates

A stainless steel scuff plate shall be installed at all cab door "L" handles for added paint protection.

Cab Door Panels

The inner door panels shall be made from 1/8" (.125") aluminum plate painted Zolatone gray for increased durability. The cab door panels shall incorporate an easily removable panel for access to the latching mechanism for maintenance or service.

Cab Door Reflective Material

Reflective Red/Lemon Yellow material striping shall be supplied on each of the cab doors. The stripes shall be angled from the lower outer corner to the upper inside corner, forming an "A" shape when viewed from the rear. The reflective material shall be at least 96 square inches to meet NFPA 1901 requirements.

Cab Door Area Lighting

There shall be four (4) clear TecNiq model T440 4" circular LED lights provided to illuminate the cab step well area. Each light shall be mounted in a resilient shock absorbent grommet and be located on each cab door in the inboard position. Each light shall be activated by the cab door ajar circuit.

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MIRRORS

Mirror Extension

There shall be a 2” extension provided for each Ramco mirror.

Cab Mirrors

Two (2) Ramco model 6001FFR remote controlled aluminum mirrors shall be installed. The mirrors shall incorporate a full face main section with a convex mirror with housing model CAS750, mounted to the top. The adjustment of main sections shall be through dash mounted switches. Location: mounted on front corners of cab.

MISC EXTERIOR CAB

Cab Canopy Window

There shall be a fixed window provided between the front and rear doors on the driver`s side of the cab.

Window dimensions shall be as follows:

- 44" C/A cab (short cab): 16"W x 24.5"H
- 58" - 80" C/A cab (medium - extended): 26.69"W x 24.5"H

Cab Canopy Window

There shall be a fixed window provided between the front and rear doors on the officer`s side of the cab.

Window dimensions shall be as follows:

- 44" C/A cab (short cab): 16"W x 24.5"H
- 58" - 80" C/A cab (medium - extended): 26.69"W x 24.5"H

Front Mud Flaps

Black linear low density polyethylene mud flaps shall be installed on the rear of the cab front wheel wells. The design of the mud flaps shall have corrugated ridges to distribute water evenly.

Handrails Front Cab Doors

Cab door assist handrails shall consist of two (2) 1.25” diameter x 18” long 6063-T5 anodized aluminum tubes mounted directly behind the driver and officer door openings one each side of

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the cab. The handrails shall be machine extruded with integral ribbed surfaces to assure a good grip for personnel safety. Handrails shall be installed between chrome end stanchions and shall be positioned at least 2" from the mounting surface to allow a positive grip with a gloved hand.

Handrails Rear Cab Doors

Cab door assist handrails shall consist of two (2) 1.25" diameter x 36" long 6063-T5 anodized aluminum tubes mounted directly behind the driver and officer rear door openings one each side of the cab. The handrails shall be machine extruded with integral ribbed surfaces to assure a good grip for personnel safety. Handrails shall be installed between chrome end stanchions and shall be positioned at least 2" from the mounting surface to allow a positive grip with a gloved hand.

Rear Cab Wall Construction

The rear cab wall shall be constructed with the use of 3/16" aluminum diamond plate interlocking in aluminum extrusions.

Receptacle Mounting Plate

A mounting plate shall be provided for the battery charger receptacle, battery charger indicator and if applicable the air inlet, etc. The plate shall be constructed of 14 gauge brushed finish stainless steel and be removable for service access to the receptacle(s) and indicator.

HVAC

Air Conditioning

An overhead air-conditioner / heater system with a single radiator mounted condenser shall be supplied.

The unit shall be mounted to the cab interior headliner in a mid-cab position, away from all seating positions. The unit shall provide ten (10) comfort discharge louvers, four (4) to the back area of the cab and six (6) to the front. These louvers will be used for AC and heat air delivery. Two (2) additional large front louvers shall be damper controlled to provide defogging and defrosting capabilities to the front windshield as necessary.

The unit shall consist of a high output evaporator coil and heater core with one (1) high output dual blower for front air delivery, and two (2) high performance single wheel blowers for rear air delivery.

The control panel shall actuate the air-distribution system with air cylinders, which are to be separated from the brake system by an 85-90 psi pressure protection valve. A three-speed blower switch shall control air speed.

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The condenser shall be radiator mounted and have a minimum capacity of 65,000 BTU`s and shall include a receiver drier.

Performance Data: (Unit only, no ducting or louvers)

AC BTU: 55,000

Heat BTU: 65,000

CFM: 1300 @ 13.8V (All blowers)

The compressor shall be a ten-cylinder swash plate type Seltec model TM-31HD with a capacity of 19.1 cu. in. per revolution.

The system shall be capable of cooling the interior of the cab from 100 degrees ambient to 75 degrees or less with 50% relative humidity in 30 minutes or less.

HVAC Control Location

Heating and air conditioning controls shall be located in the center dash area upper tier offset to driver side.

SEATS

Seating

All seats shall be Seats, Inc. 911 brand.

Seat, Driver

Seats, Inc. 911 air suspension seat shall be supplied for the driver`s position.

Features shall include:

- Universal styling
- High back seat back
- Low profile air suspension assembly with rubber accordion cover
- Weight, height and ride adjustment
- Built-in back and lumbar adjustment
- 4” fore and aft adjustment

All seat positions shall have a bright red retractable 3-point lap and shoulder harness, providing additional safety and security for personnel. Extensions shall be provided with the seat belts so the male end can be easily grasped and the female end easily located while sitting in a normal position.

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Seat, Officer

One (1) Seats, Inc. 911 Universal fixed SCBA seat shall be supplied for the officer`s position in front of the cab to the right of the driver`s position.

Features shall include:

- Universal styling.
- High back seat back.
- Built-in back and lumbar adjustment.
- Easy exit, flip up, and split headrest for improved exit with SCBA.

All seat positions shall have a bright red retractable 3-point lap and shoulder harness, providing additional safety and security for personnel. Extensions shall be provided with the seat belts so the male end can be easily grasped and the female end easily located while sitting in a normal position.

Seat, Rear Facing

One (1) Seats, Inc. 911 Universal SCBA seat shall be provided in the rear facing position over the driver side wheel well.

Features shall include:

- Universal styling.
- High back seat back.
- Easy exit, flip up, and split headrest for improved exit with SCBA.

All seat positions shall have a bright red retractable 3-point lap and shoulder harness, providing additional safety and security for personnel. Extensions shall be provided with the seat belts so the male end can be easily grasped and the female end easily located while sitting in a normal position.

Seat, Rear Facing

One (1) Seats, Inc. 911 Universal SCBA seat shall be provided in the rear facing position over the officer side wheel well.

Features shall include:

- Universal styling.
- High back seat back.
- Easy exit, flip up, and split headrest for improved exit with SCBA.

All seat positions shall have a bright red retractable 3-point lap and shoulder harness, providing additional safety and security for personnel. Extensions shall be provided with the seat belts so

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the male end can be easily grasped and the female end easily located while sitting in a normal position.

Seat Fabric Color

All seats shall be gray in color.

Seating Capacity Tag

A tag that is in view of the driver stating seating capacity of six (6) personnel shall be provided.

Seat, Rear Wall

Two (2) Seats, Inc. 911 Universal SCBA seat backs and a two (2) person bench style seat bottom with a single cushion shall be mounted on the rear wall of the cab. Each side of the seat riser shall be angled, providing sufficient leg room while entering and exiting the cab.

Features shall include:

- Universal styling.
- Easy exit, flip-up, and split head rest for improved exit with SCBA.
- Bench cushion shall be constructed of high-density foam with a heavy duty wear resistant material.

All seat positions shall have a bright red retractable 3-point lap and shoulder harness, providing additional safety and security for personnel. Extensions shall be provided with the seat belts so the male end can be easily grasped and the female end easily located while sitting in a normal position.

Seat Cover Material

All seats shall have Turnout Tuff seat cover material.

Seat Belt Extenders

QTY: 6

Ready Reach seat belt extenders shall be provided. The extender shall include an arm that places the shoulder belt D-loop in a closer, easier to reach location.

The extenders shall be provided for the driver's seat, officer's seat, rear facing driver's side, inboard driver's side rear wall, inboard officer's side rear wall, rear facing officer's side seat.

SCBA Brackets SmartDock

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QTY: 5

An IMMI SmartDock Gen2 SCBA storage bracket shall be provided. The SmartDock is a strap-free docking station that offers single-motion SCBA insertion and hands-free release when the firefighter stands up to exit the seat. SmartDock has undergone extensive testing to ensure that it meets or exceeds industry standards. When evaluated to the NFPA 1901 Standard for Automotive Fire Apparatus, SmartDock met requirements for retaining both the cylinder and the pack in dynamic testing.

Location: Officer's seat, Both Rear Facing Seats, and Both Forward Facing Seats.

MAP BOX

Map Box Suspended

An aluminum map/storage box shall be installed in the cab. The map box shall be constructed of 1/8" (.125) inch smooth aluminum. Two (2) hinged drop down doors, with push button latches, shall be installed on the front of the box for the access to two (2) storage areas (separated by a vertical divider). Each storage area shall have one (1) horizontal fixed shelf for storage of ring binders, map books, etc. Each latch shall have a 25 lb. rating.

The map box shall be mounted on the vertical uprights in the center of the cab between the driver and officer seating positions. The map box shall be secured and tested to meet with current N. F. P. A. requirements.

Approximate Dimensions:

Divided Storage area - 34" W x 6" H x 13.5" D.

MISC INTERIOR CAB

Cab Interior Color

Cab instrument panel, overhead console, trim panels, headliner, and door panels shall be gray.

Sun Visors

Padded sun visors shall be provided for the driver and officer matching the interior trim of the cab and shall be flush mounted into the underside of the overhead console.

Engine Cover

The engine cover shall blend in smoothly with the interior dash and flooring of the cab. The upper left and right sides shall have a sloped transition surface running front to rear providing increased space for the driver and officer.

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The engine cover and engine service access door cover shall be molded 18 lb/cu. ft. (+/-0.5) flexible integral skinned polyurethane foam at a Durometer of 60 (+/- 5.0) per ASTM F1957-99. The cover shall be approximately .5" thick with a minimum skin thickness of 0.0625 inches. The cover shall be provided to reduce the transmission of noise and heat from the engine. The cover shall be black and feature a pebble grain finish for slip resistance.

Cab Dash - Severe Duty

The center and officer side dash shall be constructed from .125" smooth aluminum plate painted to match the cab interior. The officer side dash panel shall be lowered to provide increased visibility. A hinged access panel shall be provided on top of the center dash to provide easy access to components within.

The lower kick panels below the dash to be constructed from .125" aluminum smooth plate painted to match cab interior. The panels shall be removable to allow for servicing components that may be located behind the panels.

MDT Bracket

One (1) Havis model C-MD-107 slide-out mount with a model C-HDM-135 mounting base shall be provided on the officer side cab dash. A Havis model UT-101 universal laptop computer mount shall be provided on the slide-out.

Medical Glove Boxes

QTY: 3

A medical glove box shall be provided inside the cab. The box shall have a slotted hinged lid that shall allow gloves to be removed with the lid in the closed position.

Rear Cab Wall Overlay

The rear wall of the cab shall be overlaid with 3/16" aluminum plate on either side of the forward facing crew seats. The aluminum plate shall cover as much of the rear wall as practical and provide sturdy tool mounting base.

Storage Under Bench Seat

There shall be two (2) hinged doors provided; one (1) each side of the seat riser enabling access to store equipment below the rear wall bench seat.

CAB ELECTRICAL

Cab Dome Lights

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A Weldon LED dome light assembly with one (1) white lens and one (1) red lens and plastic housing shall be installed. The white light activates with appropriate cab door and light assembly switch, the red light activates with light assembly mounted switch only.

There shall be two (2) mounted in the front of the cab, one (1) in the driver and one (1) in the officer ceiling.

There shall be two (2) mounted in the rear of the cab, one (1) in the driver side and one (1) in the officer side ceiling.

Auto-Eject Battery Charger Receptacle

The battery charger receptacle shall be a Kussmaul 20 amp NEMA 5-20 Super Auto-Eject #091-55-20-120 with a cover. The Super Auto-Eject receptacle shall be completely sealed and have an automatic power line disconnect.

The receptacle shall be located outside driver's door next to handrail and the cover color shall be Yellow.

English Dominant Gauge Cluster

The cab operational instruments shall be located in the dashboard on the driver side of the cab and shall be clearly visible. The gauges in this panel shall be English dominant and shall be the following:

- Speedometer/Odometer
- Tachometer with integral hour meter
- Engine oil pressure gauge with warning light and buzzer
- Engine water temperature gauge with warning light and buzzer
- Two (2) air pressure gauges with a warning light and buzzer (front air and rear air)
- Fuel gauge
- Voltmeter
- Transmission oil temperature gauge

This panel shall be backlit for increased visibility during day and night time operations.

Cab Turn Signals

There shall be a pair of Whelen 600 LED (Light Emitting Diode) turn signal light heads with populated arrow pattern and amber lens mounted upper headlight bezel and wired with weatherproof connectors.

LED Cab Headlights

JW Speaker LED headlight model 8800 shall be provided. LED lights shall be provided in the low and high beam position of the head lamp assembly.

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Cab 12 Volt Outlet

A plug-in type receptacle for hand held spotlights, cell phones, chargers, etc. shall be installed officer side dash. The receptacle shall be wired battery hot.

Battery Charger Location

The battery charger shall be located behind driver's seat.

Battery Charger

A Kussmaul LPC 20 battery charger with remote mounted LED display shall be installed.

A fully automatic charging system shall be installed on the apparatus. The system shall have a 120 volt, 60 hertz, 7 amp AC input with an output of 20 amps 12 volts DC. The battery charging system shall be connected directly to the shoreline to ensure the batteries remain fully charged while the vehicle is in the fire station or firehouse.

The system shall include a remote charging status indicator panel. The panel shall consist of two (2) LED lights to provide a visual signal if battery voltage is good or drops below 11.5 volts. The microprocessor shall be continuously powered from the battery to provide the charge status.

Cab Headlights

The quad cab headlight bezels shall contain rectangular sealed beam halogen lights.

DPF Regeneration Override

A momentary override switch shall be provided for the Diesel Particulate Filter (DPF) regeneration. The switch will inhibit the regeneration process until the switch is reset or the engine is shut down and restarted. The switch shall be located within reach of the driver.

Officer Speedometer

A speedometer shall be provided in the officer side multiplex display in the cab.

Antenna Base

There shall be a Tessco P/N 90942 universal antenna base mounted on the cab roof with a weatherproof connector. The antenna base shall be NMO Motorola Style (equivalent to a MATM style) with RG58U coax cable. The antenna shall be located (location to be specified).

BODY

Stainless Steel Body Construction

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The compartment floors, front panels, vertical side sheets, rear walls, door openings, wheel wells, compartment panels, dividing walls, and reinforcements shall be constructed of 12 gauge 304L stainless steel material. The exterior of the body shall be prepared for job color paint finish.

To eliminate unnecessary seams and overlapping areas, the construction of all component panels shall feature brake-formed fabrication. Angle iron framing is not acceptable. Component panels shall be in single metal sections wherever possible.

The assembly of body component panels shall be with inert gas, continuous feed welders. Stick welding is not acceptable. The use of sheet metal fasteners in assembly of body components is unacceptable.

Structural supports shall be incorporated into the overall design to provide the necessary support for component panels and body modules.

The body shall be a free standing module supported only by the top of the frame rails using a transverse 3/16" thick 304L stainless steel structure assembly. This structure shall be secured in a minimum of four (4) locations, using a double flex mount system and angle brackets bolted to both the body structural assembly and the sides of the chassis frame rails using Grade 8 fasteners. Mylar shall be used to isolate the structural assembly from the frame rails. A body substructure using carbon steel, outrigger arms or any other mounting method is not acceptable. This design is required to eliminate shift and stress on the body module and component panels.

Each compartment door opening shall have at least a double brake-formed door jamb. The brake formed door jamb is required for superior strength and body construction integrity. Doors that seal only at the exterior surface of the body or utilize only a single brake-formed door jamb are not acceptable.

The compartment floor construction shall permit easy cleaning with a true sweep-out design. The outer floor area, making up the compartment door jamb, shall incorporate a triple brake-formed construction for recessed door seal inboard of the exterior of the body. This shall be required to eliminate road splash and debris from entering the compartments at floor level. Angles, lips, or door moldings are not acceptable in the base of the door opening. There shall be a minimum of two (2) 3/8" drain holes in the compartment floors.

Each interior compartment seam shall be sealed with a silver silicone caulk. The rear walls of each compartment shall be provided with a bright stainless steel louvered vent.

BODY COMPARTMENTS LEFT SIDE

Driver Side Body Compartments

Compartment L1, ahead of the rear wheels, shall be 42.0" wide x 63.0" high x 26.0" deep.

Compartment L2, above the rear wheels, shall be 60.0" wide x 33.0" high x 26.0" deep.

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Compartment L3, behind the rear wheels, shall be 48.0" wide x 63.0" high x 26.0" deep.

BODY COMPARTMENTS RIGHT SIDE

Officer Side Compartments

Compartment R1, ahead of the rear wheels, shall be 42.0" wide x 63.0" high x 26.0" deep in lower section and 12.0" deep in the upper section.

Compartment R2, above the rear wheels, shall be 60.0" wide x 33.0" high x 12.0" deep.

Compartment R3, behind the rear wheels, shall be 48.0" wide x 63.0" high x 26.0" deep in lower section and 12.0" deep in the upper section.

BODY COMPARTMENT REAR

Rear Panel Area

The entire rear panel of the body shall be covered using smooth FRP panels for application of the Chevron graphics. The rear panel area shall be of the flat back body design.

A 12" deep rear tailboard of 3/16" aluminum treadplate shall be provided full width of the body. The standing surface of the tailboard shall be provided with non-skid Bustin Tread welded inserts.

Grab rails shall be provided one each side on the rear of the body, and a horizontal grab rail shall be provided below the hose bed.

Rear Panel Compartment

Compartment B1, located centered ahead of the rear tailboard, shall be 46" wide x approximately 40" high x 30" deep. Solid walls shall be provided on both sides of the rear compartment. This compartment shall be of 12 gauge 304L stainless steel.

DOORS

Roll Up Compartment Doors

QTY: 7

A ROM brand roll up door with satin finish shall be provided on all compartments. The door(s) shall be installed in the following location(s): L1, L2, L3, R1, R2, R3, and B1.

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The Robinson door slats shall be double wall box frame and manufactured from anodized aluminum. The slats shall have interlocking end shoes on each slat. The slats shall have interlocking joints with a PVC/vinyl inner seal to prevent any metal to metal contact and inhibit moisture and dust penetration.

The track shall be anodized aluminum with a finishing flange incorporated to provide a finished look around the perimeter of the door without additional trim or caulking. The track shall have a replaceable side seal to prevent water and dust from entering the compartment.

The doors shall be counterbalanced for ease in operation. A full width latch bar shall be operable with one hand, even with heavy gloves. Securing method shall be a positive latch device.

A magnetic type switch integral to the door shall be supplied for door ajar indication and compartment light activation.

The door opening shall be reduced by 2" in width and approximately 8-9" in height depending on door height.

Drip Pan

A ROM drip pan shall be supplied for each roll-up door. The drip pan shall be made from a high strength aluminum alloy. The splashguard and end caps shall be made from extruded and injection molded high-impact plastic. Drip pan location(s): L1, L2, L3, R1, R2, R3, B1.

SHELVES

Adjustable Shelves 26" Deep

QTY: 5

There shall be an aluminum adjustable shelf provided for compartment L1, L2, L3, R1, and R3.

The shelf shall be constructed of 3/16" (.187") smooth aluminum plate. The shelf shall have a minimum 2" front and rear lips to accommodate optional plastic interlocking compartment tile systems. For additional strength and reinforcement of the shelf a return break shall be provided on the outward lip. The adjustable shelf shall be capable of holding 250 lbs.

The shelf shall be sized, width and depth, to match the size and location in the compartment.

Adjustable Shelf 12" Deep

There shall be an aluminum adjustable shelf provided in the upper area of compartment R3 upper, the shelf shall be notched into extended side compartment area.

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The shelf shall be constructed of 3/16" (.187") smooth aluminum plate. The shelf shall have a minimum 2" front and rear lips to accommodate optional plastic interlocking compartment tile systems. The adjustable shelf shall be capable of holding 100 lbs.

The shelf shall be sized, width and depth, to match the size and location in the compartment.

Adjustable Tracks 26" Deep

QTY: 5

Tracks shall be provided in L1, L2, L3, R1, R3 for use with adjustable shelves and/or trays in deep non-transverse compartments. The tracks shall be vertically mounted and attached to the side and/or rear walls of the compartments.

Adjustable Track 12" Deep

Tracks shall be provided in R3 upper for use with shallow depth adjustable shelves. The tracks shall be vertically mounted and attached to the side and/or rear walls of the compartments.

Permanent Shelves

QTY: 2

There shall be a permanent mounted stainless steel shelf provided for compartment R1, R3. The shelf shall be at the offset within the compartment.

The shelf shall be constructed of 12ga stainless steel. The shelf shall have a minimum 2" front lip for added strength and reinforcement and to accommodate optional plastic interlocking compartment tile systems.

The shelf shall be capable of holding 250 lbs.

Bolt in Shelves

QTY: 3

There shall be a bolt in mounted aluminum shelf provided for compartments L2 and L3.

The shelf shall be constructed of 3/16" (.187") smooth aluminum plate. The shelf shall have a minimum 2" front lip for added strength.

The shelf shall be capable of holding 250 lbs.

Locate One (1) in L2, Two (2) in L3.

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COMPARTMENT DIVIDERS

Partitions Vertical Bolt-In

QTY: 11

Partition, bolt-in vertical partition wall. Locate in L1, L2, L3, R1, and R3. Partition constructed out of 3/16" 3003 smooth plate.

Locate One (1) in L1, Three (3) in L2, Two (2) in L3, One (1) R1, and Four (4) in R3.

TRAYS AND TOOLBOARDS

Roll-Out Tray

There shall be a floor mounted roll-out tray provided in compartment B1.

The roll-out tray shall be constructed of 3/16" (.187") smooth aluminum plate with a sanded finish and welded corners for increased strength and rigidity. The tray shall be sized in width and depth as applicable.

For greater tray accessibility, the drawer slides shall feature one hundred percent extension. The tray shall utilize a gas spring to secure the tray in the open or closed position.

The tray shall have a total capacity of 500 lbs.

Roll-Out/Tilt-Down Tray

A roll-out/tilt-down tray shall be adjustable mounted in compartment L1. For use on single depth or rescue style compartments.

The tray shall be constructed of 3/16" (.187) aluminum with welded corners for strength and rigidity. The tray shall be sized in width and depth as applicable.

An Innovative Industries SlideMaster Tip Down frame and channel assembly shall be provided for the tray for the ease of operation and long service life. A positive twist lock shall be provided to lock the tray in the stored position. The tray shall roll out approximately 90% from its stored position and shall tip 30 degrees from horizontal.

The capacity rating of the tray, in the extended position, shall be 250 lbs. distributed.

Toolboards Adjustable

QTY: 3

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Adjustable roll-out aluminum toolboards shall be provided for compartment L1.

The toolboards shall be constructed of 3/16" (.187") smooth aluminum plate with a sanded finish and be sized in height and depth as applicable.

The toolboards shall be mounted on drawer slides at the top and bottom that will permit the board to roll out of the compartment for easier access to tools and/or equipment. The slide mechanisms shall have ball bearings for ease of extension and retraction operation and dependable service. The toolboards shall be mounted at top and bottom on adjustable tracking for ease of placement. Slide extends up to 36 inches.

The capacity rating shall be 500 lb. maximum at full extension. A latch shall be utilized to secure the toolboards in the open or closed position.

COVERS

Hose Bed Cover

A cover constructed of Red 18 oz. PVC vinyl coated polyester shall be installed over the apparatus hose bed. The base fabric shall be 1000 x 1300 Denier Polyester with a fabric count of 20 x 20 square inch.

The front edge of the cover shall be mechanically attached to the body. The sides of the cover shall be held in place with heavy duty Velcro strips running the length of the hose bed. The rear of the cover shall have an integral flap that extends down to cover the rear of the hose bed. This flap shall be secured in place with heavy duty nylon straps to comply with the latest edition of NFPA 1901.

Vinyl Crosslay Cover

A cover constructed of Red 18 oz. PVC vinyl coated polyester shall be installed on the crosslay. The base fabric shall be 1000 x 1300 Denier Polyester with a fabric count of 20 x 20 per square inch.

The cover shall be held in place across the top of the body by chrome snaps. The sides of the cover shall have integral flaps that extend down to cover the sides of the crosslay. The side flaps shall be secured in place to comply with the latest edition of NFPA 1901.

PUMP MODULE

Pump Module Width

Pump module shall be 76" wide.

Lower Pump Module

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A lower pump enclosure module shall be installed. The substructure shall be constructed entirely of 12 gauge 304L stainless steel using a break-formed design for the components. Transverse 3/16" thick 304L stainless steel break-formed cross members shall support the 12 gauge substructure and the exterior panels independently from the cab and rear body of the apparatus. The cross members shall be isolated from the frame rails using Mylar.

The pump module shall be 50" wide front to back, plus flex joints.

The pump enclosure shall be 76" wide side to side, plus running boards.

The pump enclosure shall be a free standing module supported only by the top of the frame rails, in a minimum of four places, and secured with angle brackets bolted to both the pump enclosure support cross rails and the side of the chassis frame rails. This design is required to eliminate shift and stress on the pump enclosure, pump panels and running boards. A pump enclosure constructed using carbon steel or any other mounting method is not acceptable.

Maximum size brushed stainless steel fully removable bolt-on access panels shall be installed on each side of the pump enclosure.

All side panels, instrument panels, and bezels shall be cut and de-burred to eliminate sharp edges. For best uniform appearance, all brushed finish on the stainless steel trim pieces shall run in the same horizontal direction.

Running Boards

Two (2) 3/16" non-skid aluminum treadplate running boards shall be bolted to the pump enclosure substructure. Running boards shall be a minimum of 12" deep. For increased slip resistance, the standing surface of the running boards shall be provided with Bustin Tread non-skid inserts.

Upper Pump Module

The upper pump enclosure area shall be built of 304L stainless steel with brushed stainless steel outer trim to blend with the lower module trim pieces.

Crosslay Preconnects

Three (3) preconnected crosslay compartments shall be provided at the rear of the upper pump module. The crosslay dividers shall be 1/4" thick smooth aluminum with DA finish.

There shall be a stainless steel floor which shall include holes for ventilation and cut-outs for the swivel elbows to allow preconnected hose to be deployed from both sides of the truck.

The (3) crosslays shall each accommodate up to 300` of double jacket preconnected hose in a double stack.

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Storage Area

The remaining area above the enclosure shall be used for top open miscellaneous equipment storage. The floor in this area shall be non-skid aluminum treadplate.

PUMP PANELS

Side Mount Pump Panels

The driver and officer side pump panels shall be constructed of 14 gauge stainless steel. Each panel shall have the ability to be removed from the module for easier access and for maintenance in the pump area.

Control Panel Access

The gauge panel shall swing downward/forward for access to electrical connections on panel. Includes two (2) cable hold opens, and push button latches.

MISC PUMP PANEL

Pump Panel Tags

Color coded pump panel labels shall be supplied to be in accordance with NFPA 1901 compliance.

WATER TANK

780 Gallon Water Tank

A 780 gallon (U.S.) "R" booster tank shall be supplied.

The booster tank shall be constructed of polypropylene material. The booster tank shall be completely removable without disturbing or dismounting the apparatus body structure. The top of the booster tank is fitted with removable lifting assembly designed to facilitate tank removal.

The booster tank top, sides, and bottom shall be constructed of a minimum 1/2" (0.50") thick black UV-stabilized copolymer polypropylene. Joints and seams shall be fused using nitrogen gas as required and tested for maximum strength and integrity. The tank construction shall include technology wherein a sealant shall be installed between the plastic components prior to being fusion welded. This sealing method will provide a liquid barrier offering leak protection in the event of a weld compromise. The tank cover shall be constructed of 1/2" thick polypropylene and UV stabilized, to incorporate a multi-piece locking design, which allows for individual removal and inspection if necessary. The tank cover(s) shall be flush or recessed 3/8" from the top of the tank and shall be fused to the tank walls and longitudinal partitions for

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maximum integrity. Each one of the covers shall have hold downs consisting of 2" minimum polypropylene dowels spaced a maximum of 40" apart. These dowels shall extend through the covers and will assist in keeping the covers rigid under fast filling conditions.

The tank shall have a combination vent and manual fill tower with a hinged lid. The fill tower shall be constructed of 1/2" polypropylene and shall be a typical dimension of 8" x 8" outer perimeter (subject to change for specific design applications). The fill tower shall be blue in color indicating that it is a water-only fill tower. The tower shall have a 1/4" thick removable polypropylene screen and a polypropylene hinged cover. The capacity of the tank shall be engraved on the top of the fill tower lid.

The booster tank shall have two (2) tank plumbing openings. One (1) for a tank-to-pump suction line with an anti-swirl plate, and one (1) for a tank fill line. All tank fill couplings shall be backed with flow deflectors to break up the stream of water entering the tank, and be capable of withstanding sustained fill rates per the tank fill inlet size.

The sump shall be constructed of a minimum of 1/2" polypropylene. The sump shall have a minimum 3" N.P.T. threaded outlet for a drain plug per NFPA. This shall be used as a combination clean-out and drain. All tanks shall have an anti-swirl plate located approximately 3" above the inside floor.

The transverse and longitudinal swash partitions shall be manufactured of a minimum of 3/8" polypropylene. All partitions shall be equipped with vent and air holes to permit movement of air and water between compartments. The partitions shall be designed to provide maximum water flow. All swash partitions interlock with one another and are completely fused to each other as well as to the walls of the tank. All partitions and spacing shall comply with NFPA 1901. The walls shall be welded to the floor of the tank providing maximum strength.

Inside the fill tower there shall be a combination vent/overflow pipe. The vent overflow shall be a minimum of schedule 40 polypropylene pipe with an I.D. of 3" or larger that is designed to run through the tank. This outlet shall direct the draining of overflow water past the rear axle, thus reducing the possibility of freeze-up of these components in cold environments. This drain configuration shall also assure that rear axle tire traction shall not be affected when moving forward.

The booster tank shall undergo extensive testing prior to installation in the truck. All water tanks shall be tested and certified as to capacity on a calibrated and certified tilting scale.

Each tank shall be weighed empty and full to provide precise fluid capacity. Each tank shall be delivered with a Certificate of Capacity delineating the weight empty and full and the resultant capacity based on weight. Engineering estimates for capacity calculations shall not be permitted for capacity certification. The tank must be designed and fabricated by a tank manufacturer that is ISO 9001:2008 certified in each of its locations. The ISO certification must be to the current standard in effect at the time of the design and fabrication of the tank.

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A tag shall be installed on the apparatus in a convenient location and contain pertinent information including a QR code readable by commercially available smart phones. The information contained on the tag shall include the capacity of the water and foam(s), the maximum fill and pressure rates, the serial number of the tank, the date of manufacture, the tank manufacturer, and contact information. The QR code will allow the user to connect with the tank manufacturer for additional information and assistance.

The tank shall have a limited Lifetime warranty that provides warranty service for the life of the fire apparatus in which the tank is installed. Warranties are transferable if the apparatus ownership changes by requesting the transfer from the tank manufacturer.

Tank capacity is 780 US gallon / 649 Imperial gallons / 2952 Liters.

TANK PLUMBING

Tank Fill 2" Akron Valve

One (1) 2" pump-to-tank fill line having a 2" manually operated full flow valve. The valve control shall be located at the pump operator's panel and shall visually indicate the position of the valve at all times. The fill line shall be controlled using a chrome handle with an integral tag.

The valve shall be an Akron 8800HD series with a 316 stainless steel ball and dual polymer seats for ease of operation and increased abrasion resistance. The valve shall have a self-locking ball feature using an automatic friction lock design to balance the stainless steel ball when in a throttle position with water flowing through it.

The valve shall be of unique Akron swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

All fabricated piping shall be a minimum of Schedule 10 stainless steel for superior corrosion resistance and decreased friction loss.

Tank to Pump 3"

One (1) manually operated 3" Akron valve shall be installed between the pump suction and the booster tank. Includes flex hose with stainless steel hose clamps for connection to the 4" tank sump outlet . The valve control shall be located at the pump operator's panel and shall visually indicate the position of the valve at all times.

The valve shall be an Akron 8800HD series with a 316 stainless steel ball and dual polymer seats for ease of operation and increased abrasion resistance. The valve shall have a self-locking ball feature using an automatic friction lock design to balance the stainless steel ball when in a throttle position and water is flowing through it.

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The valve shall be of the unique Akron swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

All fabricated piping shall be a minimum of Schedule 10 stainless steel for superior corrosion resistance and decreased friction loss.

A check valve shall be provided in the tank to pump supply line to prevent the possibility of "back filling" the water tank. The valve control shall be located at the pump operator's panel and shall visually indicate the position of the valve at all times.

LADDER STORAGE

Ladder Brand

The ladder brand capable of being carried on the unit shall be Alco-Lite.

Ladders

The length of ladders capable of being stored shall be the following: 24' 2-section, 14' roof ladder and 10' attic ladder w/shoes.

Storage Tunnel

A storage tunnel shall be provided, constructed of break formed .125" aluminum sheet, located behind the officer upper compartments. Includes a hinged rear access door (wired to door ajar) with a 2-point bent D-ring latch.

Tunnel shall be capable of holding: (1) 2-section ladder, (1) roof ladder, (1) attic ladder, (2) pike poles, and (2) 6" x 10' hard suction hoses, individually vertically stacked, with stops.

HANDRAILS / STEPS

Hose Bed Folding Steps

Innovative Controls dual lighted LED folding steps shall be positioned to the driver side rear of the body. The steps shall be NFPA compliant for access to the hose bed storage area and in step height and surface area. The steps shall be staggered stepped as applicable with tailboard depth, not applicable with recessed step mounting.

Innovative Controls dual lighted folding step with LED lights integral to the step on the top to provide NFPA requirements of 2 fc (20 lx) on the stepping surface. Folding step shall also have a LED light integral to the bottom of the step to meet NFPA requirements of a stepping surface up to 18" below the step. The folding step shall sustain a minimum static load of 500 lb with a 3 to 1 safety factor. The folding step shall also meet NFPA slip resistance

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qualifications. Corrosion resistance shall be demonstrated by a 1000 hr salt spray test with no visible signs of deterioration of the step body or hardware.

One (1) hand rail shall be installed (as applicable) in compliance with current NFPA. The hand rail shall be constructed of 6063T5 1.25" OD anodized aluminum tube, with an integral ribbed surface to assure a good grip for personnel safety, mounted between chrome stanchions.

Intermediate Rear Step

An 8" deep non-skid aluminum treadplate step with mitered corners shall be installed above the rear panel compartment door opening for ease of access to the upper body area. The step shall include a Bustin tread insert for increased traction and drainage. The width of the step shall be 38" when one rear discharge is selected or 31" when two rear discharges are selected.

Folding Steps Front of Body

QTY: 10

Innovative Controls dual lighted LED folding step(s) shall be located five (5) on officer side front compartment face and five (5) on driver side front compartment face. The folding step(s) shall meet current NFPA in step height and surface area.

Innovative Controls dual lighted LED folding step with LED lights integral to the step on the top to provide NFPA requirements of 2 fc (20 lx) on the stepping surface. Folding step shall also have a LED light integral to the bottom of the step to meet NFPA requirements of a stepping surface up to 18" below the step. The folding step shall sustain a minimum static load of 500 lb with a 3 to 1 safety factor. The folding step shall also meet NFPA slip resistance qualifications. Corrosion resistance shall be demonstrated by a 1000 hr. salt spray test with no visible signs of deterioration of the step body or hardware.

Two (2) hand rails (one on each side) shall be installed in compliance with current NFPA. The hand rail shall be constructed of 6063T5 1.25" OD anodized aluminum tube, with an integral ribbed surface to assure a good grip for personnel safety, mounted between chrome stanchions.

MISC BODY

Rear Mud Flaps

The rear tires shall have a set of black mud flaps mounted behind the rear chassis wheels.

Hose Bed Divider Hand Holds

QTY: 2

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There shall be a hand hole cut-out(s) on the trailing edge of each hose bed divider. The cut-out(s) is specifically sized for use in adjusting of the hose bed divider.

Fuel Fill

A recessed fuel fill shall be provided at the driver side rear wheel well area.

Hose Bed Dividers

QTY: 2

There shall adjustable hose bed divider(s) provided.

Rear Fender Panels

The construction of the wheel well assemblies shall be an integral part of the overall body design. Rear fender panels shall be formed of 12 gauge 304L stainless steel.

Mirror polished stainless steel fenderettes shall be installed at the outer panels and protrude a maximum of 3/4". Black closed cell foam rubber shall be installed between the flare and outer wheel well panel. Mounting hardware shall not be visible on the exterior of the body.

Bolt-on 16 gauge 304L stainless steel wheel well liners shall be installed, unpainted. A minimum of 1/4" spacing shall be provided at the lower leading and trailing mounting areas for proper drainage and ventilation.

Hose Body Area

The overall body height shall be 94" from the bottom of the body to the top of the upper hose bed side sheets.

The upper hose body shall be 59" wide, constructed of the same 304L stainless steel material as the compartments and shall use welded construction.

Hose bed flooring shall be Duradek T3500 white fiberglass grating installed full length and full width of the hose bed for superior drainage and hose ventilation.

Body Rubrail Package

The main body of the apparatus shall have an extruded aluminum rubrail package installed below the lower side compartments and full width of the rear tailboard. Each rubrail shall include a white reflective surface.

SCBA BOTTLE STORAGE

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SCBA Wheel Well Bottle Storage

QTY: 7

The body wheel well area shall store up to seven (7) SCBA bottles- four (4) on the officer side and three (3) on the driver side. The bottles shall be secured in each storage area by a vertical hinged door which shall be secured in the closed position by a push button latch. The doors shall have a brushed stainless steel finish.

Each storage area shall provide individual storage of a bottle and shall not allow forward or rearward movement of the bottle. The bottle(s) shall be removable from the storage area without the bottle(s) coming into contact with any surface area of the wheel well (NO EXCEPTIONS).

SCBA Strap

QTY: 7

Straps shall be provided in each exterior storage compartment to provide secondary means to hold each SCBA bottle in the compartment. The straps shall be constructed from 1" nylon webbing formed in a loop. The strap(s) shall be mounted to the storage compartment ceiling directly inside the door opening at each bottle location.

PUMP

Pump Rating

The fire pump shall be rated at 1500 GPM.

Fire Pump System

The pump shall be a midship-mounted Hale QMAX single stage centrifugal pump. The pump shall be mounted on the chassis frame rails of commercial or custom truck chassis and have the capacity of 1,250 to 2,250 gallons per minute (U.S. GPM) NFPA 1901 rated performance, and shall be split-shaft driven from the truck transmission.

The entire pump body and related parts shall be of fine grain alloy cast iron, with a minimum tensile strength of 30,000 psi (207 MPa). All metal moving parts in contact with water shall be of high quality bronze or stainless steel. Pump body shall be horizontally split in two sections, for easy removal of impeller assembly including wear rings and bearings from beneath the pump without disturbing pump mounting or piping.

The pump impeller shall be hard, fine grain bronze of the mixed flow design and shall be individually ground and hand balanced. Impeller clearance rings shall be bronze, easily renewable without replacing impeller or pump volute body, and of wrap-around double labyrinth design for maximum efficiency.

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The pump shaft shall be heat-treated, corrosion-resistant stainless steel and shall be rigidly supported by three (3) bearings for minimum deflection. The sleeve bearing is to be lubricated by a force fed, automatic oil lubricated design, pressure-balanced to exclude foreign material. The remaining bearings shall be heavy-duty, deep groove ball bearings in the gearbox and shall be splash-lubricated. Pump shaft must be sealed with double-lip oil seal to keep road dirt and water out of the gearbox.

Two (2) 6" diameter suction ports with 6" NST male threads and removable screens shall be provided, one each side. The ports shall be mounted one (1) on each side of the midship pump and shall extend through the side pump panels. Inlets shall come equipped with long handle chrome caps.

Discharge Manifold

The pump system shall utilize a stainless steel discharge manifold system that allows a direct flow of water to discharge valves. The manifold and fabricated piping systems shall be constructed of a minimum of Schedule 10 stainless steel to reduce corrosion.

Pump Shift

The pump shift shall be pneumatically-controlled using a power shifting cylinder.

The power shift control valve shall be mounted in the cab and be labeled "PUMP SHIFT". The apparatus transmission shift control shall be furnished with a positive lever, preventing accidental shifting of the chassis transmission.

A green indicator light shall be located in the cab and be labeled "PUMP ENGAGED". The light shall not activate until the pump shift has completed its full travel into pump engagement position.

A second green indicator light shall be located in the cab and be labeled "OK TO PUMP". This light shall be energized when both the pump shift has been completed and the chassis automatic transmission has obtained converter lock-up (4th gear lock-up).

Test Ports

Two (2) test plugs shall be pump panel mounted for third party testing of vacuum and pressures of the pump.

Gearbox Cooler

A gearbox cooler shall be provided to maintain safe operating temperatures during prolonged pumping operations for pump rating 1500 GPM and over.

PUMP CERTIFICATION

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Pump Certification

The pump, when dry, shall be capable of taking suction and discharging water in accordance with current NFPA 1901. The pump shall be tested at the manufacturer`s facility by an independent, third-party testing service. The conditions of the pump test shall be as outlined in current NFPA 1901.

The tests shall include, at a minimum, the pump test, the pumping engine overload test, the pressure control system test, the priming device tests, the vacuum test, and the water tank to pump flow test as outlined in current NFPA 1901.

A piping hydrostatic test shall be performed as outlined in current NFPA 1901.

The pump shall deliver the percentage of rated capacities at pressures indicated below:

100% of rated capacity at 150 psi net pump pressure
100% of rated capacity at 165 psi net pump pressure
70% of rated capacity at 200 psi net pump pressure
50% of rated capacity at 250 psi net pump pressure

A test plate, installed at the pump panel, shall provide the rated discharges and pressures together with the speed of the engine as determined by the certification test, and the no-load governed speed of the engine.

A Certificate of Inspection certifying performance of the pump and all related components shall be provided at time of delivery. Additional certification documents shall include, but not limited to, Certificate of Hydrostatic Test, Electrical System Performance Test, Manufacturer`s Record of Pumper Construction, and Certificate of Pump Performance from the pump manufacturer.

PUMP MISC

Speed Counter

The test connection shall be installed on the pump panel to manually verify the vehicle engine speed displayed on the electronic tachometer.

Steamers, Flush+1

QTY: 2

The pump 6" steamer intake(s) shall be mounted approximately 1" from the pump panel to back of cap when installed. The "Flush+1" dimension can vary + or - 1-1/4" or as practicable depending on the pump module width and options selected. (Example 72" or 76" modules.)

Location: driver's side, officer's side.

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Front Suction Inlet Valve

A Hale Master Intake Valve (MIV-E) shall be provided for the specified intake. The large diameter inlet valve shall be capable of achieving an NFPA test rating of 1500 GPM through a single 6" suction hose.

The inlet valve shall be operated by a 12 VDC electric motor with a remote switch provided at the pump operator's position. The 12 VDC motor shall be provided with an automatic resetting, thermally-compensated over-current protection circuit breaker to protect the 12 VDC motor and apparatus electrical system. The gear actuator on the valve will cycle from full closed to full open in not less than three (3) seconds. A hand controlled pump panel mounted manual override (knob style) shall be provided.

An indicator light panel shall be located at the pump operator's position to show valve open, closed, or traversing from open to closed.

A built-in adjustable pressure relief valve shall be provided. The pressure relief valve shall be factory set to 125 psi. The pressure relief valve shall provide overpressure protection for the suction hose even when the intake valve is closed.

A 3/4" air bleeder valve shall be provided and controlled at the pump operator's position.

A 1/4" water bleeder shall be supplied and controlled at the pump operator's position.

Location: 5 in. front intake.

Pump Seal Packing

The pump shaft shall have only one (1) packing gland located on the inlet side of the pump. It shall be of split design for ease of repacking. The packing gland shall be of a design to exert uniform pressure on packing and to prevent cocking and uneven packing load when tightened. The packing rings shall be permanently lubricated, graphite composition and have sacrificial zinc foil separators to protect the pump shaft from galvanic corrosion.

The packing shall be easily adjusted by hand with rod or screw driver with no special tools or wrenches required.

Master Drain Valve

A manual master drain valve shall be installed on the pump panel. The master pump drain assembly shall consist of a Class 1 bronze master drain with a rubber disc seal. The master drain shall have a rubber seal to prevent water from running out on the running board.

The manual master drain valve shall have twelve (12) individual-sealed ports that allow quick and simultaneous draining of multiple intake and discharge lines. It shall be constructed of corrosion-resistant material and be capable of operating at a pressure of up to 600 PSI.

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The master drain shall provide independent ports for low point drainage of the fire pump and auxiliary devices.

Pump Cooler

The pump shall have a 3/8" line installed from the pump discharge to the booster tank to allow a small amount of water to circulate through the pump casing in order to cool the pump during sustained periods of pump operation when water is not being discharged. The pump cooler line shall be controlled from the pump operator's panel by a Innovative Controls 1/4 turn valve with "T" handle. Each 1/4 turn handle grip shall feature built-in color-coding labels and a verbiage tag

Auxiliary Engine Cooler Control

The auxiliary engine cooler shall be controlled from the pump operator's panel by an Innovative Controls 1/4 turn valve with "T" handle. The 1/4 turn handle grip shall feature built-in color-coding label and a verbiage tag.

1/2" lines shall be installed from the pump discharge via the valve to the cooler and back to the pump intake to allow a small amount of water to circulate through the engine cooler.

Priming System

An electrically-driven Hale ESP priming pump shall be provided for the water pump. The primer shall be positive displacement rotary vane type that requires no lubricant. The primer motor shall be heat-treated, anodized aluminum specially coated for wear and corrosion resistance.

One (1) priming control, located at the pump operator's position, shall open the priming valve and start the priming motor. The priming valve shall be electronically interlocked to the "Park Brake" circuit to allow priming of the pump before the pump is placed in gear.

INTAKES

Left Intake 2.5" Akron Valve

One (1) 2-1/2" suction inlet with a manually operated 2-1/2" Akron valve shall be provided on the left side pump panel.

The valve shall be an Akron 8800HD series with a 316 stainless steel ball and dual polymer seats for ease of operation and increased abrasion resistance. The valve shall have a self-locking ball feature using an automatic friction lock design to balance the stainless steel ball when in a throttle position and water is flowing through it.

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The valve shall be of the unique Akron swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

The outlet of the valve shall be connected to the suction side of the pump with the valve body located behind the pump panel. The valve shall come equipped with a brass inlet strainer, 2-1/2" NST female chrome inlet swivel, and shall be equipped with a chrome plated rockerlug plug with a retainer device.

The valve control shall be located at the pump operator's panel and shall visually indicate the position of the valve at all times.

All fabricated piping shall be a minimum of Schedule 10 stainless steel for superior corrosion resistance, and decreased friction loss.

A 3/4" bleeder valve assembly will be installed on the left side pump panel.

Front Intake 5"

A 5" stainless steel pipe shall extend from the right suction side of the pump to the front of the apparatus. All fabricated piping used in the front suction shall be constructed of a minimum of Schedule 10 stainless steel pipe to reduce corrosion of the lines. 3/4" valve(s) shall be provided to allow water to be drained.

Front Intake Swivel, 5"

A heavy duty 5" 90 degree cast brass elbow designed and constructed specifically for fire/emergency vehicle usage shall serve as the auxiliary front suction inlet. The elbow, also referred to as the "swivel", shall be attached to the front suction piping. This component shall have the following features:

- 1) The ability to rotate 180 degrees.
- 2) A rugged twist-lock mechanism to hold the elbow in place at the desired position.
- 3) A double-ball race with bronze balls.
- 4) A 5" NPT free swivel female inlet.
- 5) A 5" NST male outlet with strainer.
- 6) Cast brass with polished chrome finish.

The elbow/swivel shall be mounted so that it extends above the extended front bumper.

Intake Pressure Relief

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A18 Series - PRESSURE RELIEF VALVE - TFT's pressure relief valve is adjustable from 50 to 250 psi (3 to 14 bar) with easy to see 25 psi (2 bar) increments. The aluminum casting is plastic impregnated, hardcoat anodized, and TFT powder coat finished inside and out for maximum corrosion protection. Works with Darley, Waterous, or Hale bolt hole patterns for direct use on pump flanges.

DISCHARGES AND PRECONNECTS

Deck Gun 3" Discharge Akron Valve

One (1) 3" deck gun discharge outlet with a manually operated Akron valve and 3" stainless steel pipe shall be provided above the pump compartment.

The valve shall be an Akron 8800HD series with a 316 stainless steel ball and dual polymer seats for ease of operation and increased abrasion resistance. The valve shall have a self-locking ball feature using an automatic friction lock design to balance the stainless steel ball when in a throttle position with water flowing through it.

The valve shall be of the unique Akron swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

The valve shall be equipped with a device that limits the opening and closing speeds to comply with the current edition of NFPA 1901.

The valve control shall be located at the pump operator's panel and shall visually indicate the position of the valve at all times.

All fabricated piping shall be a minimum of Schedule 10 stainless steel for superior corrosion resistance and decreased friction loss.

1.5" Single Crosslays Akron Valve

QTY: 2

One (1) single crosslay discharge shall be provided at the front area of the body. The crosslay shall include one (1) 2" brass swivel with a 1-1/2" hose connection to permit the use of hose from either side of the apparatus.

The crosslay hose bed shall consist of a 2" heavy-duty hose coming from the pump discharge manifold to the 2" swivel. The hose shall be connected to a manually operated 2" Akron valve. The valve shall be an Akron 8800HD series with a 316 stainless steel ball and dual polymer seats for ease of operation and increased abrasion resistance. The valve shall have a self-locking ball feature using an automatic friction lock design to balance the stainless steel ball when in a throttle position with water flowing through it.

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The valve shall be of the unique Akron swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

The valve control shall be located at the pump operator`s panel and shall visually indicate the position of the valve at all times.

All fabricated piping shall be a minimum of Schedule 10 stainless steel for superior corrosion resistance and decreased friction loss.

Location: crosslay 1 & 2.

2.5” Single Crosslay Akron Valve

One (1) single crosslay discharge shall be provided at the front area of the body. The crosslay shall include one (1) 2-1/5” brass swivel with a 2-1/2” hose connection to permit the use of hose from either side of the apparatus.

The crosslay hose bed shall consist of a 2-1/2” heavy-duty hose coming from the pump discharge manifold to the 2-1/2” swivel. The hose shall be connected to a manually operated 2-1/2” Akron valve. The valve shall be an Akron 8800HD series with a 316 stainless steel ball and dual polymer seats for ease of operation and increased abrasion resistance. The valve shall have a self-locking ball feature using an automatic friction lock design to balance the stainless steel ball when in a throttle position with water flowing through it.

The valve shall be of the unique Akron swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

The valve control shall be located at the pump operator`s panel and shall visually indicate the position of the valve at all times.

All fabricated piping shall be a minimum of Schedule 10 stainless steel for superior corrosion resistance and decreased friction loss.

Location: crosslay 3.

Discharges Left Panel 2.5” Akron Droop

QTY: 2

One (1) 2-1/2” discharge outlet with a manually operated Akron valve shall be provided at the left hand side pump panel.

The valve shall be an Akron 8800HD series with a 316 stainless steel ball and dual polymer seats for ease of operation and increased abrasion resistance. The valve shall have a self-locking ball feature using an automatic friction lock design to balance the stainless steel ball when in a throttle position and water is flowing through it.

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The valve shall be of the unique Akron swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

The valve control shall be located at the pump operator panel and shall visually indicate the position of the valve at all times.

The discharge shall extend out beyond the pump panel with a 30 degree downward angle with 2-1/2" NST threads to help prevent kinking of the discharge hose. The 30 degree chrome droop shall be an integral part of the discharge valve and shall be equipped with a chrome plated rocker lug cap with a retainer chain.

The discharge shall be supplied with a 3/4" bleeder valve assembly. The bleeder valve shall be installed to drain water from the gauge pressure line to prevent freezing of the line. The drain shall be controlled with a quarter-turn valve on the pump panel.

All fabricated piping shall be a minimum of Schedule 10 stainless steel for superior corrosion resistance and decreased friction loss.

Location: left side discharge 1, left side discharge 2.

Discharge Right Panel 2.5" Akron Droop

One (1) 2-1/2" discharge outlet with a manually operated Akron valve shall be provided at the right side pump panel.

The valve shall be an Akron 8800HD series with a 316 stainless steel ball and dual polymer seats for ease of operation and increased abrasion resistance. The valve shall have a self-locking ball feature using an automatic friction lock design to balance the stainless steel ball when in a throttle position with water flowing through it.

The valve shall be of the unique Akron swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

The valve control shall be located at the pump operator panel and shall visually indicate the position of the valve at all times.

The discharge shall extend out beyond the pump panel with a 30 degree downward angle with chrome plated 2-1/2" NST threads to help prevent kinking of the discharge hose. The 30 degree chrome droop shall be an integral part of the discharge valve and shall be equipped with a chrome plated rocker lug cap with a retainer chain.

All fabricated piping shall be a minimum of Schedule 10 stainless steel for superior corrosion resistance and decreased friction loss.

Location: right side discharge 2.

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Right Rear 2.5" Discharge Akron Valve

One (1) 2-1/2" discharge outlet with a manually operated Akron valve shall be supplied to the right rear of the apparatus by a 2-1/2" stainless steel pipe.

The valve shall be an Akron 8800HD series with a 316 stainless steel ball and dual polymer seats for ease of operation and increased abrasion resistance. The valve shall have a self-locking ball feature using an automatic friction lock design to balance the stainless steel ball when in a throttle position with water flowing through it.

The valve shall be of the unique Akron swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

The valve control shall be located at the pump operator panel and shall visually indicate the position of the valve at all times.

All fabricated piping shall be a minimum of Schedule 10 stainless steel for superior corrosion resistance and decreased friction loss.

Location: right rear discharge.

Discharge Right Panel 3" Akron Droop

One (1) 3" discharge outlet with a manually operated Akron valve shall be provided at the right side pump panel.

The discharge shall be equipped with a device that shall not allow the valve to open or close in less than three (3) seconds.

The valve shall be an Akron 8800HD series with a 316 stainless steel ball and dual polymer seats for ease of operation and increased abrasion resistance. The valve shall have a self-locking ball feature using an automatic friction lock design to balance the stainless steel ball when in a throttle position with water flowing through it.

The valve shall be of the unique Akron swing-out design to allow the valve body to be removed for servicing without disassembling the plumbing.

The valve control shall be located at the pump operator's panel and shall visually indicate the position of the valve at all times.

The discharge shall extend out beyond the pump panel with a 30 degree downward angle with chrome plated 3" NST threads to help prevent kinking of the discharge hose. The 30 degree chrome droop shall be an integral part of the discharge valve and shall be equipped with a chrome plated rocker lug cap with a retainer chain.

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All fabricated piping shall be a minimum of Schedule 10 stainless steel for superior corrosion resistance and decreased friction loss.

Location: right side discharge 1.

Deck Gun Location

Deck gun piping shall be positioned centered in deck gun channel. This location shall allow for optimal operation of a deck gun monitor once installed.

MISC DISCHARGE

Auto Drain Valve

The specified discharge shall be supplied with a Class 1 automatic 3/4" drain valve assembly.

The automatic drain shall have an all-brass body with stainless steel check assembly. The drain shall normally be open and automatically close when the pressure is greater than 6 psi.

For: deck gun.

Push/Pull Controls

The apparatus pump panel shall be equipped with Innovative Controls Side Mount Valve Controls. The ergonomically designed 1/4 turn push-pull T-handle shall be chrome-plated zinc with recessed labels for color-coding and verbiage. An anodized aluminum control rod and housing shall, together with a stainless spring steel locking mechanism, eliminate valve drift. Teflon impregnated bronze bushings in both ends of the rod housing shall minimize rod deflection, never need lubrication, and ensure consistent long-term operation. The control assembly shall include a decorative chrome-plated zinc panel-mounting bezel with areas for color-coding and/or FOAM and CAFS identification labels.

Bleeder Drain Valves Lift Style

QTY: 9

The bleeder/drain valves shall be Innovative Controls 3/4" ball brass drain valves with chrome-plated lift lever handles and ergonomic grips. Each lift handle grip shall feature built-in color-coding labels and a verbiage tag identifying each valve, also supplied by Innovative Controls. The color labels shall also include valve open and close verbiage.

Discharge/Intake Bezels

Innovative Controls intake and/or discharge swing handle bezels shall be installed to the apparatus with mounting bolts. These bezel assemblies will be used to identify intake and/or

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discharge ports with color and verbiage. These bezel are designed and manufactured to withstand the specified apparatus service environment and shall be backed by a warranty equal to that of the exterior paint and finish. The specified assemblies feature a chrome-plated panel-mount bezel with durable UV resistant polycarbonate inserts. These UV resistant polycarbonate graphic inserts shall be sub-surface screen printed to eliminate the possibility of wear and protect the inks from fading. All insert labels shall be backed with 3M permanent adhesive (200MP), which meets UL969 and NFPA standards.

Extend-A-Gun 18”

A Task Force Tips 18” Extend-A-Gun piping shall be supplied for the deck gun discharge to allow for raising and lowering the deck gun monitor.

The Extend-A-Gun shall include a raised monitor sensor connected to the door ajar light.

PRESSURE GOVERNOR

Pump Pressure Governor

The apparatus shall be equipped with a Class 1 ”TOTAL PRESSURE GOVERNOR” (TPG) Integrated pump control system. The TPG shall have a weatherproof color display. The TPG will operate as an engine/pump pressure governor/throttle system that is connected directly to the Electronic Control Module (ECM) mounted on the engine. The TPG is to operate as a pressure sensor (regulating) governor (PSG).

The TPG shall display engine RPM, oil pressure, engine temperature and voltage along with providing critical warnings. The warning levels for oil pressure, high engine temperature, low voltage and high voltage shall be independently programmable.

GAUGES

2.5” Discharge Line Gauges

QTY: 9

The valve discharge gauges shall be 2 ½“(63mm) diameter Innovative Controls pressure gauges. Each gauge shall have a rugged corrosion free stainless steel case and clear scratch resistant molded crystals with captive O-ring seals to ensure distortion free viewing and seal the gauge. The gauges shall be filled with a synthetic mixture to dampen shock and vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from -40F to +160F. Each gauge shall exceed ANSI B40.1 Grade A requirements with an accuracy of +/- 1.5% full scale and include a size appropriate phosphorous bronze bourdon tube with a reinforced lap joint and large tube base to increase the tube life and gauge accuracy.

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A polished chrome-plated stainless steel bezel shall be provided to prevent corrosion and protect the lens and gauge case. The gauges shall be installed into decorative chrome-plated mounting bezels that incorporate valve-identifying verbiage and/or color labels. The gauges shall display a range from 0 to 400 psi with black graphics on a white background.

4" Master Pressure Gauges w/Bezels

QTY: 2

The master intake and master discharge gauges shall be 4“(101mm) diameter IC pressure gauges. Each gauge shall have a rugged corrosion free stainless steel case and clear scratch resistant molded crystals with captive O-ring seals to ensure distortion free viewing and seal the gauge. The gauges shall be filled with a synthetic mixture to dampen shock and vibration, lubricate the internal mechanisms, prevent lens condensation and ensure proper operation from -40F to +160F. Each gauge shall meet ANSI B40.1 Grade 1A requirements with an accuracy of +/- 1% full scale and include a size appropriate phosphorous bronze bourdon tube with a reinforced lap joint and large tube base to increase the tube life and gauge accuracy.

The two master gauges shall be installed into decorative chrome-plated zinc mounting bezel that also incorporates a test port manifold and a graphic overlay that identifies the master intake and discharge gauges, the vacuum test port, and the pressure test port. The test port manifold is solid cast brass with chrome plated plugs. The master gauges shall be installed on the pump panel no more than 6 inches apart. The gauge on the left shall be the master pump intake gauge and display a range from 30” vac to 400 psi with black graphics on a white background. The gauge on the right shall be the master pump discharge gauge and display a range from 0 to 400 psi with black graphics on a white background.

Water Level Gauge LED

An Innovative Controls SL Plus Tank Level Monitor System shall be installed. The system shall include [1] electronic display module(s), a stainless steel pressure transducer sender unit, and the necessary wiring with water-tight plug terminations that do not require sealing grease. The master display module shall show the tank level using 16 super-bright easy-to-see LEDs. Tank level indication shall be achieved by the appropriate illumination of 4 horizontal rows of LEDs, with 4 LEDs per row. Full and near-full levels shall be indicated with the illumination of all 4 rows of LEDs, including the illumination of the top row of 4 green LEDs. Tank levels between $\frac{1}{2}$ and $\frac{3}{4}$ full shall be indicated with the illumination of the bottom 3 rows of LEDs, including the illumination of the top row of 4 blue LEDs. Tank levels between $\frac{1}{4}$ and $\frac{1}{2}$ full shall be indicated with the illumination of the bottom 2 rows of LEDs, including the illumination of the top row of 4 amber LEDs. Tank levels between $\frac{1}{4}$ full and near empty shall be indicated with the illumination of the bottom row of 4 red LEDs only. Tank levels between near empty and empty shall be indicated by flashing the bottom row of 4 red LEDs.

The master display shall have a backlit area above at the top with illuminated water icon and a backlit area at the bottom with illuminated tank capacity.

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A wide-angle polycarbonate diffusion lens in front of the LEDs shall produce a 180° viewing angle. The electronic display module shall be waterproof and shock resistant being encapsulated in a urethane-based potting compound. The potted display electronics shall be integral to a chrome-plated panel-mount reflector that is secured to the apparatus panel with 4 screws installed from the inside of the panel or optional decorative bezel, through the reflector, and into 4 threaded inserts in the outer diffusion lens.

ELECTRICAL SYSTEM

Multiplex Electrical System

Electrical System

The apparatus shall incorporate a Weldon V-MUX multiplex 12 volt electrical system. The system shall have the capability of delivering multiple signals via a CAN bus. The electrical system installed by the apparatus manufacturer shall conform to current SAE standards, the latest FMVSS standards, and the requirements of the applicable NFPA 1901 standards.

The electrical system shall be pre-wired for optional computer modem accessibility to allow service personnel to easily plug in a modem to allow remote diagnostics.

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

Any electrical junction or terminal boxes shall be weather-resistant and located away from water spray conditions.

Multiplex System

For superior system integrity, the networked multiplex system shall meet the following minimum component requirements:

- The network system must be Peer to Peer technology based on RS485 protocol. No one module shall hold the programming for other modules. One or two modules on a network referred to as Peer to Peer, while the rest of the network consists of a one master and several slaves is not considered Peer to Peer for this application.
- Modules shall be IP67 rated to handle the extreme operating environment found in the fire service industry.
- All modules shall be solid state circuitry utilizing MOS-FET technology and utilize Deutsch series input/output connectors.

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- Each module that controls a device shall hold its own configuration program.
- Each module should be able to function as a standalone module. No “add-on” module will be acceptable to achieve this form of operation.
- Load shedding power management (8 levels).
- Switch input capability for chassis functions.
- Responsible for lighting device activation.
- Self-contained diagnostic indicators.
- Wire harness needed to interface electrical devices with multiplex modules.
- The grounds from each device should return to main ground trunk in each sub harness by the use of ultrasonic splices.

Wiring

All harnessing, wiring and connectors shall be manufactured to the following standards/guidelines. No exceptions.

- NFPA 1901-Standard for Automotive Fire Apparatus
- SAE J1127 and J1127
- IPC/WHMA-A-620 – Requirements and Acceptance for Cable and Wire Harness Assemblies. (Class 3 – High Performance Electronic Products)

All wiring shall be copper or copper alloys of a gauge rated to carry 125 of the maximum current for which the circuit is protected. Insulated wire and cable 8 gauge and smaller shall be SXL, GXL, or TXL per SAE J1128. Conductors 6 gauge and larger shall be SXL or SGT per SAE J1127.

All wiring shall be colored coded and imprinted with the circuits function. Minimum height of imprinted characters shall not be less than .082” plus or minus .01”. The imprinted characters shall repeat at a distance not greater than 3”.

A coil of wire shall be provided behind electrical appliances to allow them to be pulled away from mounting area for inspection and service work.

Wiring Protection

The overall covering of the conductors shall be loom or braid.

Braid style wiring covers shall be constructed using a woven PVC-coated nylon multifilament braiding yarn. The yarn shall have a diameter of no less than .04” and a tensile strength of 22 lbs. The yarn shall have a service temperature rating of -65 F to 194 F. The braid shall consist of 24 strands of yarn with 21 black and 3 yellow. The yellow shall be oriented the same and be next to each other.

Wiring loom shall be flame retardant black nylon. The loom shall have a service temperature of -40 F to 300 F and be secured to the wire bundle with adhesive-backed vinyl tape.

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Wiring Connectors

All connectors shall be Deutsch series unless a different series of connector is needed to mate to a supplier's component. The connectors and terminals shall be assembled per the connector/terminal manufacturer's specification. Crimble/Solderless terminals shall be acceptable. Heat shrink style shall be utilized unless used within the confines of the cab.

NFPA Required Testing of Electrical System

The apparatus shall be electrical tested upon completion of the vehicle and prior to delivery. The electrical testing, certifications, and test results shall be submitted with delivery documentation per requirements of NFPA 1901. The following minimum testing shall be completed by the apparatus manufacturer:

1. Reserve capacity test:

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

2. Alternator performance test at idle:

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

3. Alternator performance test at full load:

The total continuous electrical load shall be activated with the engine running up to the engine manufacturer's governed speed. The test duration shall be a minimum of two (2) hours. Activation of the load management system shall be permitted during this test. However, an alarm sounded by excessive battery discharge, as detected by the system required in NFPA 1901 Standard, or a system voltage of less than 11.7 volts DC for a 12 volt nominal system, for more than 120 seconds, shall be considered a test failure.

4. Low voltage alarm test:

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

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considered a test failure. The battery system shall then be able to restart the engine. Failure to restart the engine shall be considered a test failure.

NFPA Required Documentation

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

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

Vehicle Data Recorder

A vehicle data recorder system shall be provided to comply with the 2009 and 2016 editions of NFPA 1901. The following data shall be monitored:

- Vehicle speed MPH
- Acceleration (from speedometer) MPH/Sec.
- Deceleration (from speedometer) MPH/Sec.
- Engine speed RPM
- Engine throttle position % of full throttle
- ABS Event On/Off
- Seat occupied status Occupied Yes/No by position
- Seat belt status Buckled Yes/No by position
- Master Optical Warning Device Switch On/Off
- Time: 24 hour time
- Date: Year/Month/Day

Occupant Detection System

There shall be a visual and audible warning system installed in the cab that indicates the occupant buckle status of all cab seating positions that are designed to be occupied during vehicle movement.

The audible warning shall activate when the vehicle's park brake is released and a seat position is not in a valid state. A valid state is defined as a seat that is unoccupied and the seat belt is unbuckled, or one that has the seat belt buckled after the seat has been occupied.

The visual warning shall consist of a graphical representation of each cab seat in the multiplex display screen that will continuously indicate the validity of each seat position.

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The system shall include a seat sensor and safety belt latch switch for each cab seating position, audible alarm and braided wiring harness.

Multiplex Displays

QTY: 2

The V-MUX multiplex electrical system shall include a Vista IV color display.

The display shall have the following features:

- Aspect ratio of 16:9 (Wide Screen)
- Diagonal measurement of no less than 7"
- Master warning switch
- Engine high idle switch
- Five (5) tactile switches to access secondary menus
- Eight (8) multi-function programmable tactile switches
- Specific door ajar indication
- Real time clock
- Provides access to the multiplex system diagnostics
- Video capability for optional back-up camera(s) and GPS display

The displays shall be located driver's side and officer's engine cover.

LIGHT BAR

Light Bar Mount

One (1) pair of Whelen 1.5" tall (model MKEZ7) mounts shall be provided on the front light bar.

Light Bar Color(s)

Light Bar shall be provided with the following color LED modules: Red/White with clear lenses

Light Bar

A Whelen Freedom IV Series 72" LED light bar model F4X7 with eight (8) LED modules shall be provided; two (2) front corner mounted LED modules, four (4) forward facing LED modules and two (2) side facing LED modules (with front vista windows) or two (2) rear corner LED modules (without front vista windows).

No rear facing LEDs.

The light bars shall have clear lenses.

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The white LEDs (if equipped) shall be switched off in blocking right of way mode.

The light bar shall be installed centered on the front cab roof.

WARNING LIGHT PACKAGE

Upper Side Zone Warning Lights

Two (2) Whelen 900 series Super LED model 90RR5FRR light heads with red lens shall be provided. The rectangular lights shall include chrome flanges where applicable.

The light heads shall be mounted as close to the corner points of the apparatus (as practical) as follows:

One (1) Whelen 900 series Super LED light head each side of the apparatus. Locate one (1) each side at the highest most rearward point (as practical).

All warning devices shall be mounted in compliance with NFPA standards.

Upper Rear Facing Zone Warning Lights

Two (2) Whelen 900 series Super LED model 90RR5FRR light heads with red lenses shall be provided. The rectangular lights shall include chrome flanges where applicable.

The light heads shall be mounted as close to the corner points of the apparatus (as practical) as follows:

One (1) light each side on the rear panel of the body, (1) on driver side and (1) on officer side upper corners (as practical).

All warning devices shall be mounted in compliance with NFPA standards.

Body Lower Level Warning Lighting

Six (6) Whelen LIN3 Super LED light heads with red LEDs and clear lenses shall be provided.

The light heads shall be located as follows (NO EXCEPTIONS):

- Two (2) Whelen LIN3 Super LED light heads shall be mounted below the forward body compartments and offset forward as practical.
- Two (2) Whelen LIN3 Super LED light heads shall be mounted below the rearward body compartments and offset rearward as practical.
- Two (2) Whelen LIN3 Super LED light heads shall be mounted below the rear taillights and offset outboard as practical.

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All warning devices shall be mounted in compliance with NFPA standards.

Lower Level Warning

Four (4) Whelen 600 Series Super LED light heads shall be provided. All lights shall have red LEDs with clear lenses and chrome bezels.

The light heads shall be mounted as close to the corner points of the apparatus (as is practical) as follows:

- Two (2) 600 light heads on the front of the apparatus facing forward.
- Two (2) 600 light heads one (1) each side at the forward most point.

All warning devices shall be surface mounted in compliance with NFPA standards.

WARNING LIGHTS

Hazard (Door Ajar) Light

There shall be a 2" red LED hazard light installed as specified.

The light shall be located center overhead.

SIRENS

Electronic Siren

A Federal PA300 siren model 690010 solid state electronic siren with attached noise-canceling microphone shall be installed. The unit shall be capable of driving a single high power speaker up to 200 watts to achieve a sound output level that meets Class "A" requirements.

Operating modes shall include Hi-Lo, yelp, wail, P.A., air horn and radio re-broadcast.

The siren shall be recessed mounted in the cab.

Electronic Siren Control Location

The electronic siren control shall be located in the center overhead.

Mechanical Siren

A chrome plated and pedestal mounted Federal Q2B-P coaster siren shall be installed on top of the front bumper extension. An electric siren brake switch shall be located in the cab accessible to the driver.

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The siren shall be located driver side front bumper.

Rumbler Siren

A Federal Rumbler intersection clearing system shall be installed. The Rumbler secondary siren shall include an additional amplifier that senses the currently enabled siren tone signal, reduce the signals' frequency by 75%, and then amplify the sound through a high output woofer.

The system shall include an amplifier and subwoofer speaker mounted under the vehicle.

SPEAKER

Siren Speaker

One (1) Federal Signal model ES100 Dynamax 100 watt speaker shall be flush mounted as far forward and as low as possible on the front of the vehicle. A polished model MSFMT with grille shall be provided on the outside of the speaker to prevent road debris from entering the speaker.

Speaker dimensions shall be: 5.5 in. high x 5.9 in. wide x 2.5 in. deep. Weight = 5.5 lbs.

The speaker shall produce a minimum sound output of 120 dB at 10 feet to meet current NFPA 1901 requirements.

The speaker shall be located driver side front bumper.

DOT LIGHTING

Tail Lights

Two (2) Whelen model 600 series LED (Light Emitting Diode) lights with one (1) Whelen 600 series halogen light shall be installed in a Cast 3 housing in a vertical position each side at rear and wired with weatherproof connectors.

Light functions shall be as follows:

- LED red running light with red brake light in upper position.
- LED amber populated arrow pattern turn signal in middle position.
- Halogen 27 watt clear back-up light in lower position.

A one-piece polished aluminum trim casting shall be mounted around the three (3) individual lights in a vertical position.

License Plate Light

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One (1) Truck-Lite model 15905 white LED license plate light mounted in a Truck-Lite model 15732 chrome plated plastic license plate housing shall be mounted at the rear of the body.

License Plate Bracket

There shall be bracket fabricated from aluminum diamond plate, secured to rear of the body to accommodate a license plate.

LED Marker Lights

LED clearance/marker lights shall be installed as specified.

Upper Cab:

- Five (5) amber LED clearance lights on the cab roof.

Lower Cab:

- One (1) amber LED side turn/marker each side of cab ahead of the front door hinge.

Upper Body:

- One (1) red LED clearance light each side, rear of body to the side.

Lower Body:

- Three (3) red LED clearance lights centered at rear, recessed in the rubrail.
- One (1) red LED clearance light each side, lower rear of body, recessed in the rubrail.
- One (1) amber LED clearance/auxiliary turn light each side front of body, recessed in the rubrail.
- A rectangular shaped reflector with a red colored lens shall be installed at the trailing edge on each side/rear of the apparatus body.
- A rectangular shaped reflector with an amber colored lens shall be installed at the leading edge on each side of the apparatus body.

LIGHTS - COMPARTMENT, STEP & GROUND

Compartment Light Package

Two (2) Hansen compartment light strips shall be mounted in each body compartment greater than 4 cu. ft. Transverse compartments shall have four (4) lights located two (2) each side.

Each light bar shall include white LEDs mounted with a tough polycarbonate tube enclosure to protect the LED circuit board. The lights shall produce 120 lumens per foot and be waterproof up to IP66 rating.

Compartment lights shall be wired to a master on/off rocker switch on the cab switch panel.

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The wiring connection for the compartment lights shall be made with a weather-resistant plug in style connector. A single water and corrosion-resistant switch with a polycarbonate actuator and sealed contacts shall control each compartment light. The switch shall allow the light to illuminate if the compartment door is open.

Ground Lights

The apparatus shall be equipped with a sufficient quantity of lights to properly illuminate the ground areas around the apparatus in accordance with current NFPA requirements. The lights shall be TecNiq model T440 4" circular LED (Light Emitting Diode) with clear lenses mounted in a resilient shock absorbent mount for improved bulb life. The wiring connections shall be made with a weather resistant plug in style connector.

Ground area lights shall be switched from the cab dash with the work light switch.

One (1) ground light shall be supplied under each side of the front bumper extension if equipped.

Lights in areas under the driver and crew area exits shall be activated automatically when the exit doors are opened.

LIGHTS - DECK AND SCENE

Hose Bed Light

An Optronics round LED light model TLL44 shall be installed at the front area of the hose bed to provide hose bed lighting per current NFPA 1901. The light shall provide 720 lm effective output. The light shall have a powder coated, die cast aluminum housing and stainless steel hardware with a weatherproof rating of IP69K.

The hose bed light shall be switched with the work light switch in the cab.

Deck/Scene Light Wired to Back-Up Lights

The rear deck or scene lights shall be activated when the chassis is placed in reverse to provide additional lighting, in addition to the back-up lights, when backing the vehicle.

Scene Lights

Two (2) Whelen 900 series Gradient Opti-Scenelights shall be provided.

Each light head shall contain a 12 volt, 50 watt halogen bulb. The lights heads shall be equipped with lenses that have gradient optics to enhance light output.

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Lights shall be located (1) each side rear compartment face up high and switched in cab (side facing lights switched separately).

Crosslay Light

An Optronics round LED light model TLL44 shall be installed at the rear area of the crosslay to provide crosslay lighting per current NFPA 1901. The light shall provide 720 lm effective output. The light shall have a powder coated, die cast aluminum housing and stainless steel hardware with a weatherproof rating of IP69K.

The crosslay light shall be switched with the work light switch in the cab.

LIGHTS - NON-WARNING

Engine Compartment Light

There shall be LED lighting provided in compliance with NFPA to illuminate the engine compartment area. The light wiring circuit shall activate when the cab is tilted and master power is switched on.

Pump Compartment LED Light

An LED light shall be provided in the pump compartment area for NFPA compliance. The light shall be wired to operate with the work light switch in the cab.

Pump Panel Lighting Package

Pump panel lighting shall be provided for a side mount pump module in accordance with NFPA.

The driver side pump control panel shall have two (2) LED lights mounted under a protective cover that is above the driver side pump panel. The officer side shall have one (1) LED light mounted under a protective cover that is above the officer side pump panel.

The lights shall be activated by the work light switch in the cab when the park brake is set.

SWITCHES

Foot Switches Air Horns

QTY: 2

A heavy duty metal floor mounted foot switch shall be installed to operate the air horns. It shall be located driver's side, officer's side.

CITY OF BLOOMINGTON FIRE DEPARTMENT

Foot Switches Q2B

QTY: 2

A heavy duty metal floor mounted foot switch shall be installed to operate the Q2B siren. It shall be located driver's side, officer's side.

Switch Rumbler

Switch momentary for Rumbler activation.

Location: Cab Dash Officer's Side.

Siren Brake Switch

Switch for Q2B siren brake. Locate on Officer's side dash control panel area within reach of the Officer's position. This switch will be in addition to the Driver's side switch.

CAMERA AND INTERCOM SYSTEM

Back-Up Camera

There shall be a Federal Signal (Sony) camera model number CAMCCD-REARNTSC provided and mounted on the rear of the apparatus. The camera shall feature a wide angle lens, IR LED assisted illumination for enhanced low-light performance, non-corrosive mounting bracket, and stainless steel hardware. The camera shall be wired through multiplex display, interlocked with the chassis transmission. When the apparatus is placed in reverse the camera shall automatically be activated and when the transmission is placed in any other gear the screen shall return to the previously displayed screen.

Intercom System

A David Clark, series 3800, intercom system shall be provided. Intercom stations shall be located at the driver, officer, four (4) crew cab positions and pump panel. The driver, officer and pump panel positions shall be interfaced with the radio and have a "push to talk" (PTT) button. All other positions shall have intercom only capability.

The intercom shall be a six man seven position system that includes six headsets.

- One (1) David Clark radio interface cable shall be provided. The exact make and model of the radio will be determined by the fire department

-Six (6) headset hanger hooks shall be provided, one (1) over each seat. Exact location shall be determined at the inspection trip.

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MISC ELECTRICAL

Back-Up Alarm

An electronic back-up alarm shall be supplied. The 97 dB alarm shall be wired into the chassis back-up lights to signal when the vehicle is in reverse gear.

TELESCOPIC FLOOD LIGHTS - LED

Pioneer Flood Lights

QTY: 2

Whelen Pioneer Plus, model PFP1 12V LED light fixture(s) shall be supplied on a 3100 series top raise pole. The rectangular extruded light fixture with die cast end caps shall measure 8-3/16" wide by 4-5/8" high by 3" deep and have a white powder coat finish. The light fixture shall have a single panel (2) clusters of LED lamps with molded vacuum metalized reflector that draws 6 amps at 12.8 vdc and produces 7,000 usable lumens. The lights shall be mounted a locking swivel joint to allow the lights to be manually tilted up/down and locked in position by the operator. Handle standard.

Location: driver side of pump module forward area, officer side of pump module forward area.

RECEPTACLES

Receptacle

A 20 amp, 110 volt 3-prong straight blade NEMA 5-20 duplex household receptacle with stainless steel cover plate shall be installed in a compartment as specified by the department. The receptacle shall be wired to the shoreline receptacle where it will have overcurrent protection from an external source.

Location: (location to be specified).

MISC LOOSE EQUIPMENT

DOT Required Drive Away Kit

Three (3) triangular warning reflectors with carrying case shall be supplied to satisfy the DOT requirement.

Pumper Equipment

CITY OF BLOOMINGTON FIRE DEPARTMENT

The following list of equipment shall be supplied with the apparatus.

Hose:

Eight (8) 1 3/4" x 50' Angus High Combat Attack Hose (Red)
Eight (8) 1 3/4" x 50' Angus High Combat Attack Hose (Orange)
Five (5) 1 3/4" x 50' Angus High Combat Attack Hose (Yellow)
Sixteen (16) 2 1/2" x 50' Rubber Covered Hose w/NST Couplings (Red)
Ten (10) 5" x 100' Rubber Covered Hose w/5" Storz Couplings (Yellow)
Two (2) 5" x 50' Hose w/Storz Couplings (Yellow)
Two (2) 5" x 25' Hose w/Storz Couplings (Yellow)

High Rise Pack:

Three (3) 1 3/4" x 50' Angus High Combat Attack Hose (Green)
One (1) 150' High Rise Hose Strap

Monitor:

One (1) TFT-XFT-NJ Crossfire Monitor Top
One (1) TFT-XFF-APL Crossfire Truck Mount Adapter 3" NPT Female
One (1) TFT-MST-4NJ Stacked Tip Set
One (1) TFT-M-R1250S-NJ Master Stream Nozzle w/Halo 150-1250gpm
One (1) TFT-XFH-1ST Crossfire Base with 5" Storz inlet
One (1) TFT-XF-B Crossfire Storage Bracket

Portable Monitor:

One (1) TFT Blitzfire XXC-32 Portable Monitor Package
Includes: MD17A Low Pressure Nozzle and Bracket

Nozzles:

Six (6) TFT-HLM-VPGI 1 1/2" Mid-Matic w/Grip Low Pressure
Two (2) TFT-H-2VOI 2 1/2" Female NST x 1 1/2" Male NST Detent Valve w/Grip
Two (2) TFT-FSS11 1 1/4" x 1 1/2" Straight Tip

Foam Nozzle:

One (1) TFT-UM12-NF 1 1/2" PRO Pak

Intake Valves:

Two (2) TFT-AX1ST-NX 5" Rigid Storz x 6" Female Swivel Jumbo Intake Ball Valve

Gated Wyes:

Two (2) TFT-AYNJ-NF 2 1/2" Female x (2) 1 1/2" Male Outlets Gated Wye
Two (2) TFT-AY5NJ-NJ 2 1/2" Female x (2) 2 1/2" Male Outlets Gated Wye

Salvage Covers:

Two (2) 12' x 14' 12 oz. Canvas Salvage Covers

Hand Lanterns:

CITY OF BLOOMINGTON FIRE DEPARTMENT

Four (4) Fire Vulcan Lights w/12vdc Direct Wire Chargers

Suction Hose:

Two (2) 6" NH Female x NH RL Male Suction Hose

One (1) 6" NST Low Level Strainer w/Jet Siphon

Wrenches:

One (1) Triple Set Holder and Wrenches

One (1) Set of 4 Spanners w/Holder

Adapters:

One (1) 5" Storz x 3" NH Swivel RL Female Adapter

Two (2) 5" Storz x 3" RL Female Swivel 30o Elbow

One (1) 5" Storz Cap w/Chain

Two (2) 1 1/2" Male NST x 1 1/2" Male NST Adapter

Two (2) 1 1/2" Female NST x 1 1/2" Female NST Adapter

Two (2) 2 1/2" Male NST x 2 1/2" Male NST Adapter

Two (2) 2 1/2" Female NST x 2 1/2" Female NST Adapter

Three (3) 2 1/2" x 1 1/2" Reducer

Three (3) 1 1/2" Cap

Hand Tools:

One (1) 6 lb. Pickhead Axe w/36" Fiberglass Handle

One (1) 6 lb. Flathead Axe w/36" Fiberglass Handle

One (1) 36" Paratech Halligan Tool

One (1) 30" Paratech Halligan Tool

One (1) 8' Pike Pole w/Std. USA Hook

One (1) 10' Pike Pole w/Std. USA Hook

One (1) 36" Pike Pole w/Std. USA Hook with D Handle

One (1) 6' Dry Wall Hook

One (1) 10 lb. Fiberglass Sledge Hammer

One (1) Pinch Point Crowbar

One (1) McCloud Tool

One (1) Brush Rake

One (1) 8 lb. Flat Head Axe

One (1) Set of Marrying Straps for Iron Set

Ladders:

One (1) 14' Aluminum Roof Ladder

One (1) 24' Aluminum Two Section Ladder

One (1) 10' Folding Attic Ladder

Hose Roller:

One (1) Hose Roller

Wheel Chocks:

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Two (2) Folding Wheel Chock
Two (2) Holder for Folding Wheel Chock

Combi Tool:

One (1) TNT EBFCC-28 Storm Brute Force Combi Tool w/Removable Tips w/2 Batteries & Charger

PPV Fan:

One (1) BATFAN 20 NEO Battery/110volt 50/60Hz - Running time 45 minutes

Brush Packs:

Two (2) Soft Pack Brush Pump (5 gallon)

Portable Scene Lights:

Two (2) AKR-ELRE-SCOUT-2B-120 Revel Scout 120V LED Scene Lights with two (2) batteries and a chargers.

Mounting Brackets:

All Mounting Brackets Shall be provided and installed

EXTERIOR PAINT

Paint Break with Dip to Grille

The cab shall have a two-tone paint break. The break line shall be approximately 31.5 inches below the cab roof drip rail. The paint break shall include a dip down to the corners of the cab grille.

Stainless Steel Pump Module Finish

All pump module surfaces shall have a brushed stainless steel finish. Includes upper and lower pump modules, crosswalk module and/or speedlay/pre-connect module (as applicable).

Paint Custom Cab

The apparatus cab shall be painted Sikkens FLNA31757 Red. The paint process shall meet or exceed current state regulations concerning paint operations. Pollution control shall include measures to protect the atmosphere, water, and soil. Contractor shall, upon demand, provide evidence that the manufacturing facility is in compliance with State EPA rules and regulations.

The aluminum cab exterior shall have no mounted components prior to painting to assure full coverage of metal treatments and paint to the exterior surfaces. Cab doors and any hinged smooth-plate compartment doors shall be painted separately to assure proper paint coverage on cab, door jambs and door edges.

CITY OF BLOOMINGTON FIRE DEPARTMENT

Paint process shall feature Sikkens high solid LV products and be performed in the following steps:

- Corrosion Prevention - all aluminum surfaces shall be pre-treated with the Alodine 5700 conversion coating to provide superior corrosion resistance and excellent adhesion of the base coat.
- Sikkens Sealer/Primer LV - acrylic urethane sealer/primer shall be applied to guarantee excellent gloss hold-out, chip resistance and a uniform base color.
- Sikkens High Solid LVBT650 (Base coat) - a lead-free, chromate-free high solid acrylic urethane base coat shall be applied, providing excellent coverage and durability. A minimum of two (2) coats shall be applied.
- Sikkens High Solid LVBT650 (Clear coat) - high solid LV clear coat shall be applied as the final step in order to ensure full gloss and color retention and durability. A minimum of two (2) coats shall be applied.

Any location where aluminum is penetrated after painting, for the purpose of mounting steps, hand rails, doors, lights, or other specified components shall be treated at the point of penetration with a corrosion inhibiting pre-treatment (ECK Corrosion Control). The pre-treatment shall be applied to the aluminum sheet metal or aluminum extrusions in all locations where the aluminum has been penetrated. All hardware used in mounting steps, hand rails, doors, lights, or other specified components shall be individually treated with the corrosion inhibiting pre-treatment.

After the paint process is complete, the gloss rating of the unit shall be tested with a 20 degree gloss meter. Coating thickness shall be measured with a digital MIL gauge and the orange peel with a digital wave scan device.

Paint Cab Two-Tone Color

The upper section of the cab shall be painted FLNA41318 White.

The paint process of the secondary cab color shall be the same as the primary color.

Paint Wheels

The exterior outer chassis wheels shall be painted Job Color. The paint shall be of the highest quality finish for low maintenance, long life, and attractive appearance. The finish shall consist of a corrosion-resistant primer, urethane high build primer, and high performance durable color coat.

The paint process shall meet or exceed current State regulations concerning paint operations. Pollution control shall include measures to protect the atmosphere, water and soil. Manufacturer shall, upon demand, provide evidence that the manufacturing facility is in compliance with State EPA rules and regulations.

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Paint process shall feature Akzo-Nobel's high solid LV products and be performed in the following steps:

- Corrosion Prevention - all raw material shall be pre-treated with the Weather Jacket Corrosion Prevention system to provide superior corrosion resistance and excellent adhesion of the top coat.
- Akzo-Nobel Sealer/Primer LV - acrylic urethane sealer/primer shall be applied to guarantee excellent gloss hold-out, chip resistance and a uniform base color.
- Akzo-Nobel High Solid LV (Top coat) - a lead-free, chromate-free high solid acrylic urethane top coat shall be applied, providing excellent coverage and durability. A minimum of two (2) coats shall be applied.
- Akzo-Nobel High Solid LV (Clear coat) - high solid LV clear coat shall be applied as the final step in order to ensure full gloss and color retention and durability. A minimum of two (2) coats shall be applied.

Exterior Body Surfaces

FRP (fiber reinforced) panels shall be provided to overlay the stainless steel outer side of body panels that are not covered with aluminum treadplate. The FRP panels shall be painted as detailed under "Painting Information" and then installed on the body exterior.

Polished Surfaces

The vertical stainless steel Unistrut channels located on the exterior of the hose body side panels shall have a hand polished appearance.

The reinforcing edges of the hose body side panels and trailing edges of the beavertails (if equipped) shall have a machine sanded DA finish.

Polished stainless steel vertical corner trim scuff guards shall be installed on the outer front and rear body corners.

Painting Information

The final finishing of the vehicle shall be performed to the highest standards of the fire apparatus industry.

All removable components and accessories shall be fitted to the body and then removed prior to final finishing, ensuring paint has been applied under all components and accessories.

Care shall be taken during paint preparation to properly fill all surface imperfections. Welded seam areas shall be ground flush and metal finished. Bare metal surfaces shall be etched chemically to ensure proper adhesion. The primer shall be sanded to assure a smooth surface for painting.

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The interior of all compartments shall have a machine sanded DA finish that shall not be painted. Compartment seams shall be sealed with a silver silicone caulk.

The interior of the hose bed shall be provided with a machine sanded DA finish that shall not be painted.

The body exterior shall be finish painted using Sikkens paint, color FLNA31757 Red. Furnish one pint of touch-up paint, including hardener to match each of the exterior colors.

INTERIOR PAINT

Cab Interior Paint

The interior of the cab shall be painted Zolatone gray #20-64. Prior to painting, all exposed interior metal surfaces shall be pretreated using a corrosion prevention system.

LETTERING

Sign Gold Lettering 3”

QTY: 45

3” high Sign Gold letter(s) shall be applied as specified.

“BLOOMINGTON FIRE DEPT” on each front cab door.

“ENGINE 5” directly over the chrome grill.

Sign Gold Lettering 12”

QTY: 28

12” high Sign Gold letter(s) shall be applied as specified.

“E-5” on each crew door.

“BLOOMINGTON” centered on each side of the body over the compartments.

Scotchlite Lettering 8”

QTY: 3

Red 8” Scotchlite letters shall be applied per department specifications.

“E-5” centered on front bumper.

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Scotchlite Lettering 20”

QTY: 3

Red 20” Scotchlite letters shall be applied per department specifications.

“E-5” centered on the rear roll up door.

Lettering Shade and Outline

All letters shall be shaded and/or outlined as specified by the customer to provide a contrast.

STRIPING

Designated Standing / Walking Area Indication

A 1" wide yellow line shall be applied to indicate the outside perimeter of designated standing and walking areas above 48" from the ground in compliance with 2016 NFPA 1901. Steps, ladders and areas with a railing or structure at least 12" high are excluded from requiring the line.

Rear Body Chevron Striping

Chevron style 3M Diamond Grade striping shall be provided on the rear of the apparatus (does not include the B1 door). The stripes shall consist of 6" alternating stripes in an "A" pattern. The striping shall be located on the rear facing extrusions, panels and doors inboard and outboard of the beavertails if applicable.

Scotchlite Stripe 6”

A "Hockey Stick" Scotchlite reflective stripe, 6" in width, shall be applied horizontally across the apparatus and shall contour as it transitions from cab to body to comply with NFPA 1901.

Location: Bottom of stripe shall be even with the top of the front bumper on the cab then angle up on the L1/R1 compartments and then go straight back across the L2, R2, L3, and R3 compartments.

Color: White and red alternating.

Trim Stripes 1”

A 1” Scotchlite stripe shall be applied above and below the existing stripe. The stripes shall be spaced 1” away from the main stripe.

The stripe shall be White and red alternating.

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Sign Gold Cab Paint Break Stripe

Cab stripe shall be 3/4" in width total, (1/2" gold stripe with a 1/8" black outline on both sides) and a clear polyurethane coating. Stripe shall be centrally located and shall contour with the cab, following the paint break.

GRAPHICS

SignGold Logos

QTY: 2

A SignGold custom customer logo shall be supplies.

Logo to be installed on each front cab door.

Graphic to consist of a SignGold Maltese cross with a blue and white City of Bloomington logo in the center.

WARRANTY / STANDARD & EXTENDED

Lifetime Frame Warranty

The apparatus manufacturer shall provide a full lifetime frame warranty. This warranty shall cover all apparatus manufacturer designed frame, frame members, and cross-members against defects in materials or workmanship for the lifetime of the covered apparatus. A copy of the warranty document shall be provided with the proposal. Frame warranties that do not cover cross-members for the life of the vehicle shall not be acceptable.

10 Year 100,000 Mile Structural Warranty

The apparatus manufacturer shall provide a comprehensive 10 year/100,000 mile structural warranty. This warranty shall cover all structural components of the cab and/or body manufactured by the apparatus manufacturer against defects in materials or workmanship for 10 years or 100,000 miles, whichever occurs first. Excluded from this warranty are all hardware, mechanical items, electrical items, or paint finishes. A copy of the warranty document shall be provided with the proposal.

10 Year Stainless Steel Plumbing Warranty

The apparatus manufacturer shall provide a full 10-year stainless steel plumbing components warranty. This warranty shall cover defects in materials or workmanship of apparatus manufacturer designed foam/water plumbing system stainless steel components for 10 years. A copy of the warranty document shall be provided with the proposal.

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10 Year Paint and Corrosion Warranty

The apparatus manufacturer shall provide a 10-year limited paint and corrosion perforation warranty. This warranty shall cover paint peeling, cracking, blistering, and corrosion provided the vehicle is used in a normal and reasonable manner.

The paint shall be prorated for 10 years as follows:

Topcoat & Appearance: Gloss, Color Retention, Cracking		Coating System, Adhesion & Corrosion: Includes Dissimilar metal corrosion, Flaking, Blistering, Bubbling	
0 to 72 months	100%	0 to 36 months	100%
73 to 120 months	50%	37 to 84 months	50%
		85 to 120 months	25%

Corrosion perforation shall be covered 100% for 10 years. Corrosion perforation is defined as complete penetration through the exterior metal of the apparatus.

The warranty period shall begin upon delivery of the apparatus to the original user-purchaser. A copy of the warranty document shall be provided with the proposal.

UV paint fade shall be covered in a separate warranty supplied by Akzo Nobel (Sikkens) and shall be for a minimum of 10 years.

Warranty - One Year Standard

The apparatus manufacturer shall provide a full 1 year standard warranty. All components manufactured by the apparatus manufacturer shall be covered against defects in materials or workmanship for a 1 year period. All components covered by separate suppliers such as engines, transmissions, tires, and batteries shall maintain the warranty as provided by the component supplier. A copy of the warranty document shall be provided with the proposal.

Warranty 20 Year Structural

The apparatus manufacturer shall provide a comprehensive 20 year/100,000 mile structural warranty. This warranty shall cover all structural components of the stainless steel body manufactured by the apparatus manufacturer against defects in materials or workmanship for 20 years or 100,000 miles, whichever occurs first. Excluded from this warranty are all hardware, mechanical items, electrical items, or paint finishes. A copy of the warranty document shall be provided with the proposal.

25 Year Frame Rail Corrosion Warranty

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The chassis manufacturer shall provide a 25 year corrosion warranty on the chassis frame rails. This warranty shall cover the chassis frame rails, including frame rail liners (if equipped), for a period of 25 years after the date on which the vehicle is delivered to the original purchaser. A copy of the warranty document shall be provided with the proposal. Please refer to warranty document for complete details and exclusions.

SUPPORT, DELIVERY, INSPECTIONS AND MANUALS

Electronic Manuals

Two (2) copies of all operator, service, and parts manuals **MUST** be supplied at the time of delivery in electronic format (CD-ROMs) -**NO EXCEPTIONS!** The electronic manuals shall include the following information:

- Operating Instructions, descriptions, specifications, and ratings of the cab, chassis, body, aerial (if applicable), installed components, and auxiliary systems.
- Warnings and cautions pertaining to the operation and maintenance of the fire apparatus and firefighting systems.
- Charts, tables, checklists, and illustrations relating to lubrication, cleaning, troubleshooting, diagnostics, and inspections.
- Instructions regarding the frequency and procedure for recommended maintenance.
- Maintenance instructions for the repair and replacement of installed components.
- Parts listing with descriptions and illustrations for identification.
- Warranty descriptions and coverage.

The CD-ROM shall incorporate a navigation page with electronic links to the operator`s manual, service manual, parts manual, and warranty information, as well as instructions on how to use the manual. Each copy shall include a table of contents with links to the specified documents or illustrations.

The CD must be formatted in such a manner as to allow not only the printing of the entire manual, but to also the cutting, pasting, or copying of individual documents to other electronic media, such as electronic mail, memos, and the like.

A find feature shall be included to allow for searches by text or by part number.

These electronic manuals shall be accessible from any computer operating system capable of supporting portable document format (PDF). Permanent copies of all pertinent data shall be kept file at both the local dealership and at the manufacturer`s location.

NOTE: Engine overhaul, engine parts, transmission overhaul, and transmission parts manuals are not included.

Fire Apparatus Safety Guide

CITY OF BLOOMINGTON FIRE DEPARTMENT

Fire Apparatus Safety Guide published by FAMA, latest edition. This safety manual is intended to point out some of the basic safety situations that may be encountered during the normal operation and maintenance of a fire apparatus and to suggest possible ways of dealing with these situations. This manual is NOT a substitute for the Manufacture's fire apparatus operator and maintenance manuals or commercial chassis manufacturer's operator and maintenance manuals.



SALES CONTRACT

This agreement made by and between **FIRE SERVICE, INC** (Company) and

City of Bloomington

(Legal Name of Buyer)

401 N. Morton St Bloomington Indiana 47404
(Address) (City) (State / Province) (Zip / Postal Code)

1. **ACCEPTANCE:** The “Company” agrees to sell and the “Buyer” agrees to purchase the apparatus and equipment described in the E-ONE specifications and made part of this contract, in accordance with the terms and conditions listed on contract pages 1, 2, and 3.

2. **DELIVERY:** The apparatus shall be ready for delivery within approximately **195** calendar days, after the receipt and signed acceptance of this contract at the E-ONE Corporate Headquarters, Ocala, FL. The Company cannot be held liable for penalties and / or delays due to strikes, fires, accidents occurring due to the negligent conduct of other parties, force majeure, or any other causes that are not occasioned by the intentional, reckless, or negligent conduct of the Company. Notwithstanding the foregoing, the parties agree that time is of the essence in the contract and a liquidated damages penalty of one hundred dollars (\$100.00) per day shall be paid by the Company for each day that delivery of the apparatus is delayed, starting with the 181st calendar day following receipt and signed acceptance of this contract at the E-ONE Corporate Headquarters. The effective penalty date will **9/24/20**.

This penalty clause excludes delays due to war, fire, labor disputes, acts of God, governmental regulations, supplier issues and other causes beyond E-One or Fire Service Inc.’s control. Changes to the original order will void the Penalty Clause and the penalty will be renegotiated in good faith at the time such changes are approved.

In order to establish a stable design, procurement, and build schedule, a Buyer change order cutoff date of eight (8) Days from the date of the execution of the contract will be enforced. Changes in major components, configuration, or other items that may change the major components or configuration, (e.g.: engine, transmission, axles, water tank, body, fire pump) will not be allowed after the contract execution date.

If inability to obtain exclusive or brand name materials causes completion or delivery problems, the Company shall advise the Buyer of said problem. The Company resolves to examine alternative sources of said material. Material substitutions shall be mutually agreed upon by the Buyer and the Company. No substitutions shall be made without the execution of a written change order by the Buyer.

3. **CHANGE ORDERS:** Changes to the contract may be requested by the Buyer after the execution of the contract according to Section 2 of this document. Changes shall be reviewed for cost and schedule impact by the Company. Changes shall be sequentially numbered. Change Orders shall be prepared by the Company and executed by the Buyer. The price of the apparatus shall be adjusted to take into account any Change Orders. **Any and all Change Orders may extend the completion and delivery of the apparatus.**

4. **SPECIFICATIONS:** The Company agrees that all material and workmanship in and about this apparatus shall comply with the hereto attached E-ONE proposal dated 01/07/20 and clarifications.

5. **WARRANTY:** Shall be as proposed in the attached E-ONE specifications.

6. **PRICE:** The Buyer shall pay, as a purchase price for the apparatus, the sum of **Five Hundred Forty-Nine Thousand Nine Hundred Sixty-Four Dollars and no cents (\$549,964.00)**. All prices are less any applicable local, state, or federal taxes which may be applied to the apparatus proposed. NOTE: Payment shall be made by electronic funds transfer to the account indicated by the Company on the City's Electronic Funds Transfer form.

7. **TERMS OF PAYMENT:**

a) **Payment Plan Option: Payment shall be due within forty five (45) days of delivery of completed unit to the City of Bloomington.**

The purchase price payment reflects US dollars and does not include any authorized change orders which, if applicable, shall be paid at time of final inspection and signed acceptance.

b) No payment of any amount shall be made payable to a sales representative without written approval from the company.

c) It is agreed that the apparatus and equipment covered by this contract shall remain the property of the Company and not be placed in service until the entire contract price has been paid.

d) A copy of the Buyer's tax-exempt certificate, if applicable, shall be submitted with this signed contract.

8. **FIRE SERVICE, INC** requires, and the Customer agrees, that the unit shall be inspected and / or delivered within seven (7) days of notice that the unit had been completed.

9. **CANCELLATION:** This contract is subject to cancellation by Buyer only upon payment to Company of reasonable cancellation charges, which shall take into account expenses already incurred and commitments made by Company.

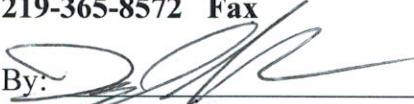
This contract, to be binding, must be signed by an officer of **Fire Service, Inc** or a person authorized, in writing, by **Fire Service, Inc** to do so.

10. **TAG-ON / ADDITIONAL ORDERS:** The Company, at its sole discretion, would allow the terms of this contract to be extend both in terms to the Buyer as well as to other entities for similar unit(s). To accommodate for pricing, the Company would quote the original prices plus applicable manufactures price increases. Additionally, any regulatory changes (NFPA, EPA/Engine Emissions, FMVSS, etc.) would also have to be added as they become applicable. Change orders changing these units from the original quotation would need to be authorized, signed, and accepted as normal. Any entity using the tag-on process would be required to sign a new contract commencing the relationship. If the purchasing agency is not the BUYER, a separate contract will be required to complete the additional purchases. Additionally any new tag-on order would require a separate Performance bond if initially required by the purchaser.

This contract, including its appendices, embodies the entire understanding between the parties relating to the subject matter contained herein and merges all prior discussions and agreements between them. No agent or representative of the Company has authority to make any representations, statements, warranties, or agreements not herein expressed and all modifications of amendments of this agreement, including any appendices, must be in writing signed by an authorized representative of each of the parties hereto.

No surety of any performance bond given by the Company to the Buyer in connection with this Agreement shall be liable for any obligation of the Company arising under the Standard Warranty.

IN WITNESS WHEREOF, the Buyer and the Company have caused this contract to be executed by their duly authorized representatives this ____ day of March 2020.

COMPANY	BUYER
Fire Service, Inc. 9545 North Industrial Drive Saint John, Indiana 46373 219-365-7157 Phone 219-365-8572 Fax	City of Bloomington Board of Public Works 401 N. Morton Street Bloomington, IN 47404
By:  _____ Name: <u>Dave Thomas</u> _____ Title: <u>Sales Representative</u> _____ Date: <u>3/12/20</u> _____	By: _____ Kyla Cox Deckard, President By: _____ Beth Hollingsworth, Vice President By: _____ Dana Palazzo, Secretary Date: _____ By: _____ John Hamilton, Mayor



Board of Public Works Staff Report

Project/Event: South Franklin Road Sewer Replacement
Staff Representative: Paul Kehrberg
Petitioner/Representative: **Jason Davis, Reynolds Construction, LLC**
Date: March 31st, 2020

Report: Reynolds Construction, LLC is requesting to close one lane of S Franklin Road north of W 3rd St. The closure is necessary for a sewer line replacement project. The altered traffic pattern will be in place from April 13th to July 10th.

Reynolds Construction has supplied maintenance of traffic plans to accommodate all of the work. They have also sent public notice to property owners about the BPW meeting and scope of their work (see packet for details).

Recommendation and Supporting Justification: Staff has reviewed the request and recommends granting permission to Reynolds Construction for the temporary traffic control.

Recommend Approval Denial by

Paul Kehrberg

March 23, 2020



Via Electronic Delivery

Board of Public Works
City of Bloomington
401 North Morton Street
Bloomington, IN 47404

SUBJECT: S. Franklin Road – Requested Lane Restrictions

Dear Board Members:

Reynolds Construction, LLC is in contract with the City of Bloomington Utilities to install sewer improvements in proximity to the intersection of S. Franklin Road and W. 3rd Street. Work in this area will begin near McDonalds and progress eastward within the east bound lane of S. Franklin Road. As work reaches the east side of the intersection with W. 3rd Street the new sewer turns south and ties into an existing manhole along the north side of W. 3rd Street.

During this work, access and egress will be maintained at all times to residents and businesses in the area, however there will be a need to close portions of S. Franklin Street, and at time the far right turning lane of west bound 3rd Street. This will be done in accordance with the attached Maintenance of Traffic Plan. As detailed in this plan, the disruptions will be in phases as the work progresses. Furthermore, it's worth pointing out that the work along S. Franklin Street must coincide with sewer improvements being performed on the south side of W. 3rd Street. This will require some jumping back and forth as we bring segments of the work online and restore surfaces.

Reynolds Construction, LLC will coordinate with the City of Bloomington, law enforcement, and transit providers to ensure that restriction information is communicated as work progresses.

Our current schedule is to begin work on S. Franklin Street on or around 4/13/20. We expect to have all new sewers in this area completed by 6/20/20, with the site being fully restored by 7/10/20. Reynolds Construction, LLC respectfully requests that the Board of Public Works approves the restrictions as described herein throughout this timeframe.

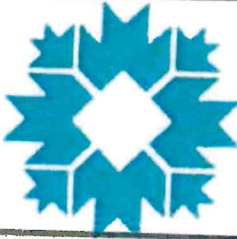
Sincerely,

REYNOLDS CONSTRUCTION, LLC

A handwritten signature in black ink that reads "Jason A. Davis". The signature is written in a cursive, flowing style.

Jason A. Davis
Project Manager

Attachment



City of Bloomington
Public Works Department

401 N Morton Street, Suite 120
P.O. Box 100
Bloomington, IN 47402

Phone: (812) 349-3410
Fax: (812) 349-3520
Email: Public.Works@bloomington.in.gov

Street or Traffic Lane Closure Permit Application

(Applications are required at least 2 business days before work begins)

Location: S. Franklin Road McDonalds W. 3rd Street
(Street) (From) (To)

Type of Closure (check all that apply): Maintenance of Traffic (MOT) Plan Required for ALL
 Complete Street Closure One Traffic Lane 2 or more Traffic Lanes Alley
 Sidewalk/Multiuse Path/Trail Bike Lane Parking Lane

Reason for Closure: Work on Sidewalk/Multiuse Path/Trail Work in Street
 Loading and Unloading Utility Work Special Event Work on Private Property
 Other: _____

Date(s) of Closure: From 4/13/20 To 7/10/20
 > 2 weeks? Yes No

Start Time: 12 : 00 (a.m.) / p.m.
 End Time: 11 : 59 a.m. (p.m.)

Overnight Closure Required: Yes No

The applicant hereby certifies and agrees as follows:

(1) I AM AUTHORIZED TO MAKE THIS APPLICATION. (2) I HAVE READ THIS APPLICATION AND ATTEST THAT THE INFORMATION WHICH HAS BEEN FURNISHED IS CORRECT. (3) If there is any misrepresentation in this application, or any associated documents, the City of Bloomington may revoke said permit issued based upon this misinformation. (4) I agree to comply with all City of Bloomington Ordinances, permit conditions and State statutes. (5) I will abide by all City of Bloomington inspections and conditions of approval. (6) I will have the approved permit, MOT plans, and work plans (or copies) on the job site at all times. (7) I agree to indemnify and to hold the City of Bloomington or any of the City's agents or employees harmless for any and all actions, losses or claims arising from the negligent act or omission by the party requesting this permit. (8) I agree that it shall be the responsibility of the party closing a street, traffic lane, alley, parking lane, bike lane, sidewalk, multiuse path or trail to provide all necessary signage and traffic control devices and that all signage and traffic control devices must adhere to, and be placed in accordance with, the Manual of Uniform Traffic Control Devices (MUTCD) and INDOT Standards, and I agree to make all appropriate notifications to Emergency Services, and any organization designated by the City of Bloomington Public Works Department. (A notification list is available from the Public Works Department). This permit is not valid and work is not permitted until signed by the agent of the City Public Works Department.

Applicant Information:

Name or Organization: Reynolds Construction, LLC

Contact Person (Printed Name): Jason A. Davis

Contact Email: Jason.Davis@Reynoldscon.com Contact Phone No.: 812-583-1313

Signature: *Jason A. Davis* Date: 3/23/2020

For Office Use Only

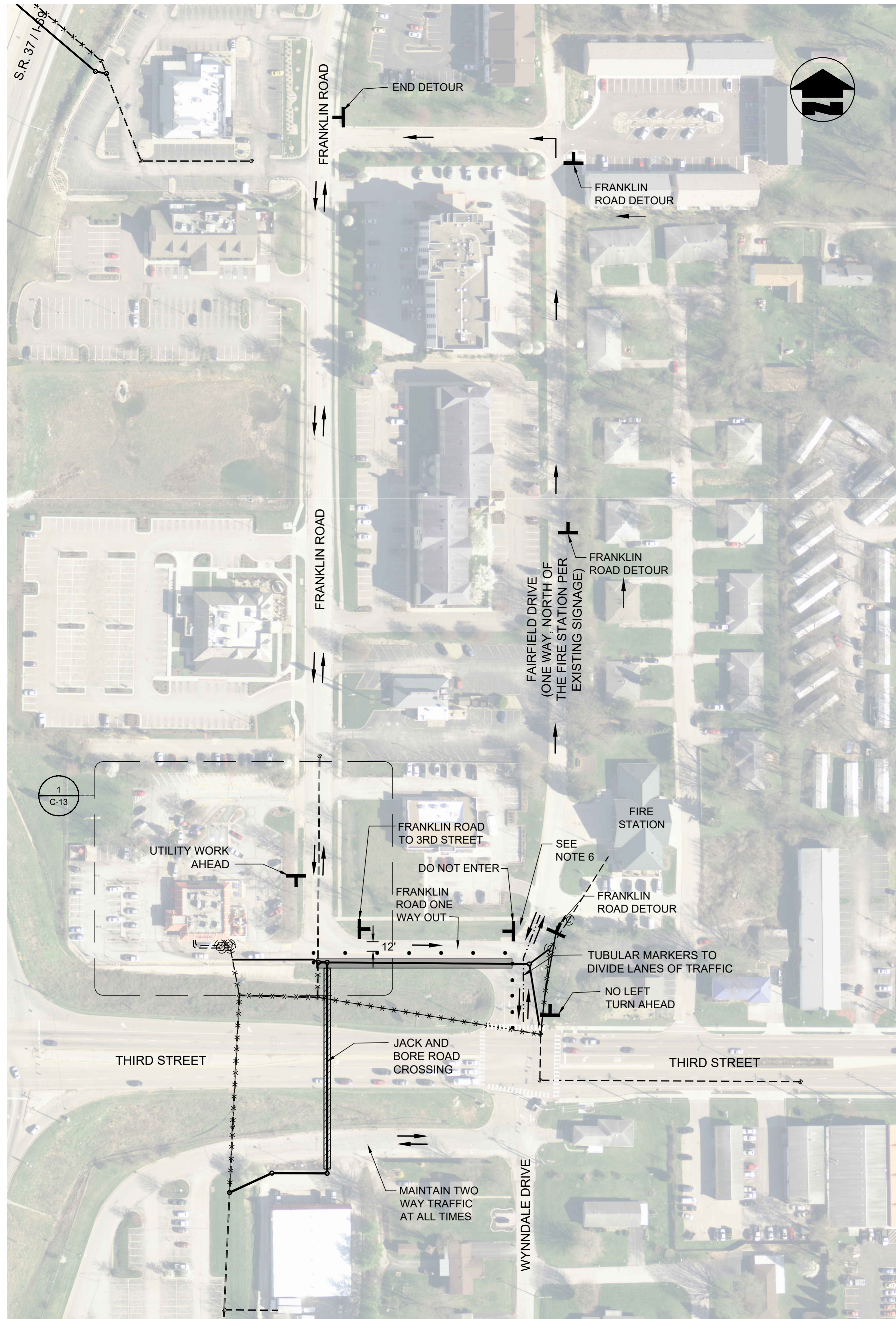
Approved By: _____ Dept.: _____ Date: _____

Approved By: _____ Dept.: _____ Date: _____

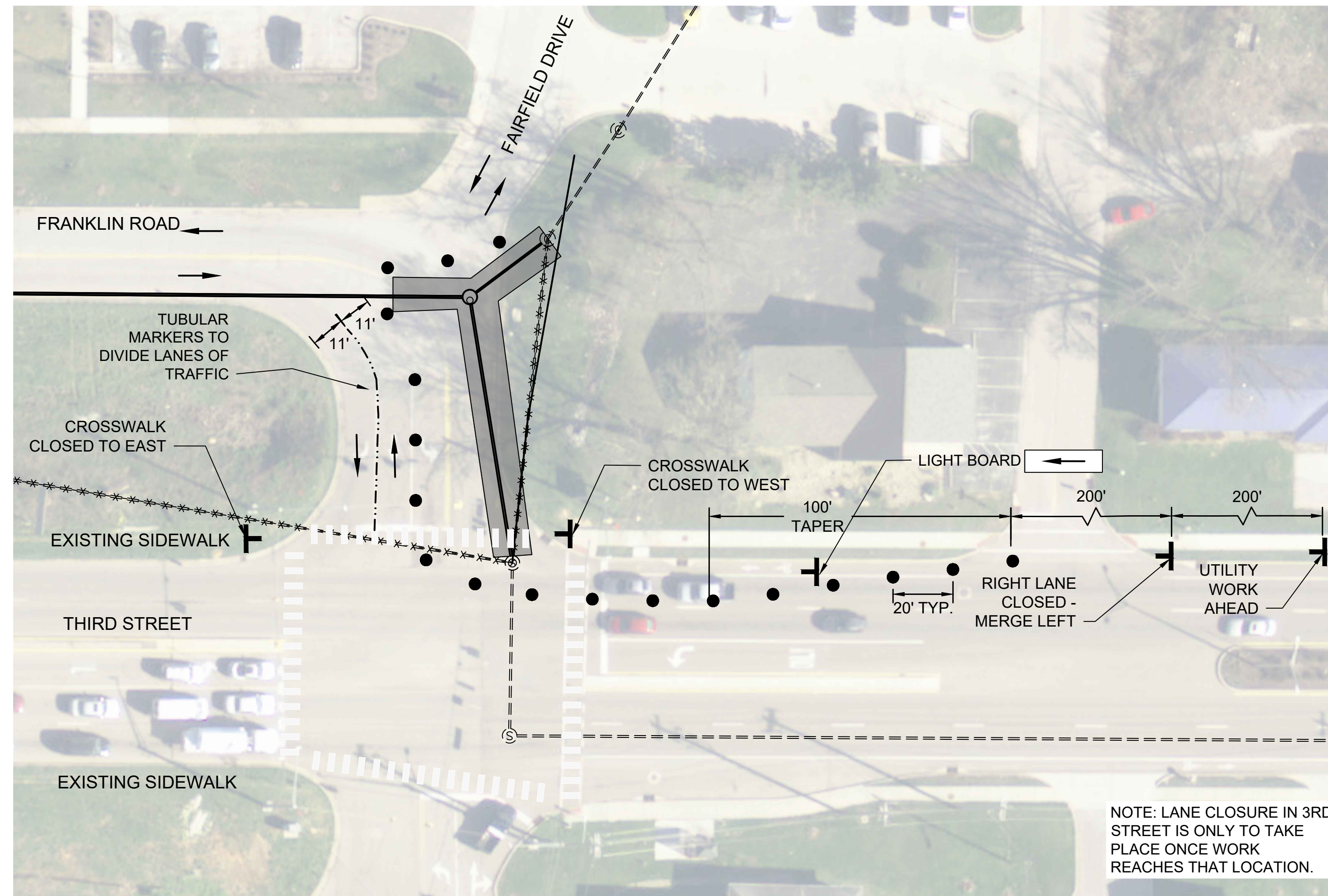
PLOTTED BY: jdm

PRINTED: 12/20/2019 @ 12:48PM

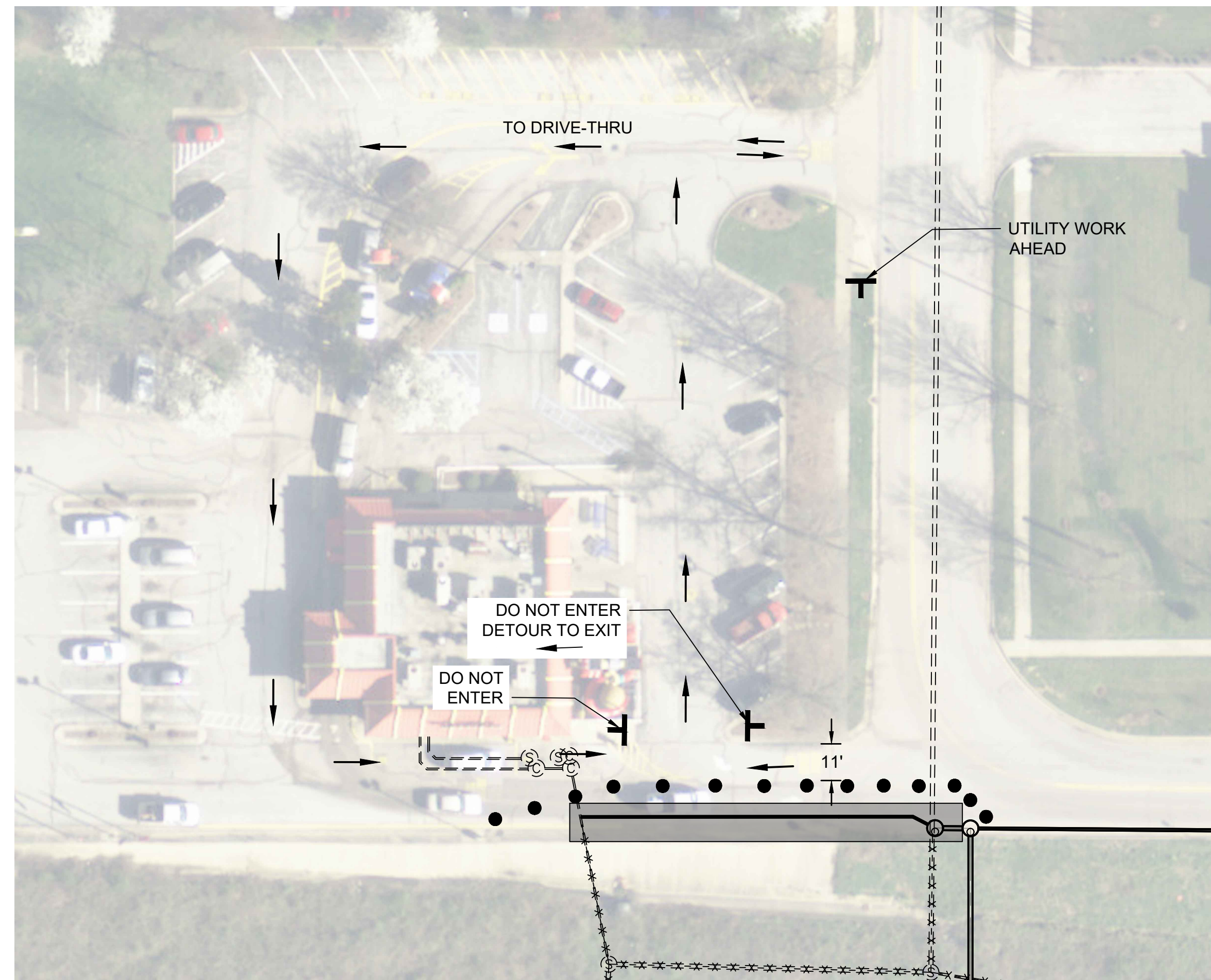
FILE NAME: G:\355-CBU\1-69 Rebase\04-Design\Working Drawings\AutoCAD\4353-C-13 MO72 Plan.dwg



FRANKLIN ROAD DETOUR PLAN - PHASE I



FRANKLIN ROAD DETOUR PLAN - PHASE II

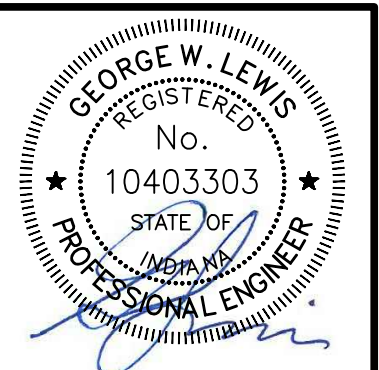
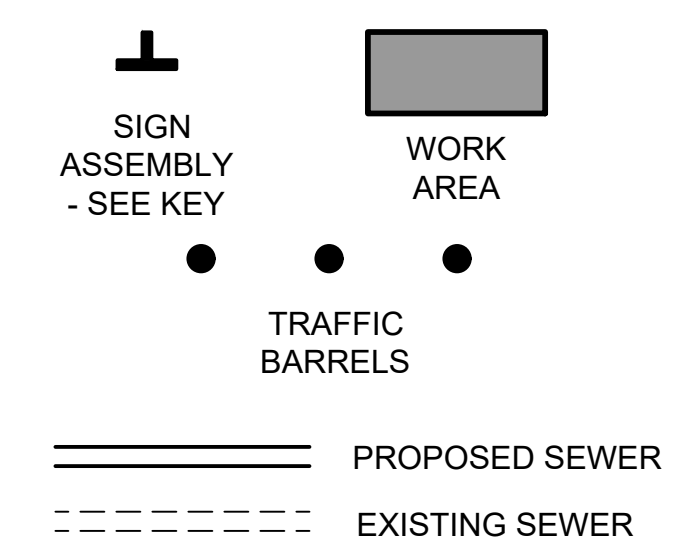


1 DETAIL - McDONALDS LATERAL
NOT TO SCALE

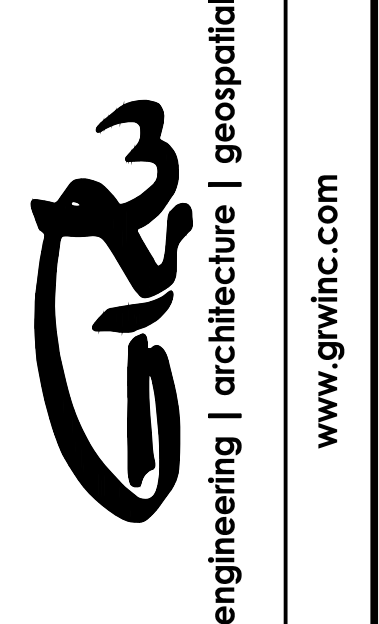
NOTES:

1. AERIAL PHOTOS USED ARE FROM 2014. EXISTING STRIPING AND SIDEWALKS VARY SLIGHTLY FROM WHAT IS SHOWN.
2. THE CONTRACTOR SHALL MAKE MODIFICATIONS AS REQUIRED DURING THE COMPLETION OF THE WORK TO MAINTAIN TRAFFIC FLOW TO THE MAXIMUM EXTENT POSSIBLE.
3. CONTRACTOR TO COMPLY WITH THE LATEST REVISION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
4. ACCESS FOR FIRE TRUCKS TO REACH 3RD STREET FROM FAIRFIELD DRIVE MUST BE MAINTAINED AT ALL TIMES.
5. COORDINATE WITH THE CITY OF BLOOMINGTON TO HAVE STOPLIGHT SENSOR PROGRAM ADJUSTED AS NEEDED DURING DETOURS
6. AN ADDITIONAL SIGN SHALL BE LOCATED IN THE NORTHWEST CORNER OF FRANKLIN AND FAIRFIELD DRIVE AND STATE "ACCESS TO BUSINESSES ON FRANKLIN ROAD. USE FAIRFIELD DRIVE" AN UP ARROW SHALL ALSO BE INCLUDED.

MAINTENANCE OF TRAFFIC SYMBOLS LEGEND
NOT TO SCALE



GRW PROJECT NO. 4353
CLIENT PROJECT NO. --
ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT SHALL BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF GEORGE W. LEWIS & ASSOCIATES, INC. WITHOUT THE WRITTEN PERMISSION.



FRANKLIN ROAD MOT PLAN
I-69 UTILITY RELOCATION PROJECT
CITY OF BLOOMINGTON, INDIANA

DESIGNED		DRAWN		REVIEWED		APPROVED	
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE

DATE: DECEMBER 2019
SCALE: N.T.S.
SHEET NO.

C-13

March 25, 2020



**SUBJECT: City of Bloomington Utilities
I-69 Utility Relocation Project
S. Franklin Road Improvements**

Dear Residents and Businesses of the Franklin Road and Fairfield Drive community:

Reynolds Construction, LLC has been contracted by the City of Bloomington Utilities to perform sewer improvements in your area. The portion of this work having the greatest effect on traffic flow extends along Franklin Road from McDonalds to 3rd Street.

Throughout the course of the work, access to and from your properties will be maintained at all times. However, there will be periods when Franklin Road will be reduced to a single lane of traffic (eastbound), and westbound traffic will be detoured north along Fairfield Drive. This detour will in essence create a one-way counterclockwise traffic flow through the area. This scenario is depicted on the attached Phase I – Maintenance of Traffic Plan. Phase II of the Maintenance of Traffic Plan (also attached) is a scenario in which traffic flow on Fairfield Drive and Franklin Rd are for the most part unaltered. It's worth pointing out that both traffic phases limit access to and from 3rd Street to just two lanes – one lane into the area and one lane out. Typically, there are three lanes exiting the area, so please use caution when passing through this area.

It is anticipated that work will begin on Franklin Road on or around 4/13/20. We expect to have all new sewers in this area completed by 6/20/20, with the site being fully restored by 7/10/20. Please note, that the work on Franklin Rd. is being performed in conjunction with other improvements being made on the south side of 3rd Street which could create periods of inactivity on Franklin Road. Until the time that all work is completed, and road surfaces repaved, portions of the driving surface will be compacted stone. This will require motorists to take it slow and use extra caution when driving through the work zone.

It is Reynolds Construction, LLC's desire to complete this project in a safe, quality, and timely manner while at the same time limiting disruption to the community to the greatest extent possible. If you have questions, or other issues throughout the course of the work, please call our project hotline at 888-240-9956 to voice those concerns. Finally, the project will be discussed at a virtual Board of Public Works meeting on 3/31/20 at 5:30 pm. If you have comments regarding the project, you may email them to the Board prior to the meeting at public.works@bloomington.in.gov.

Sincerely,

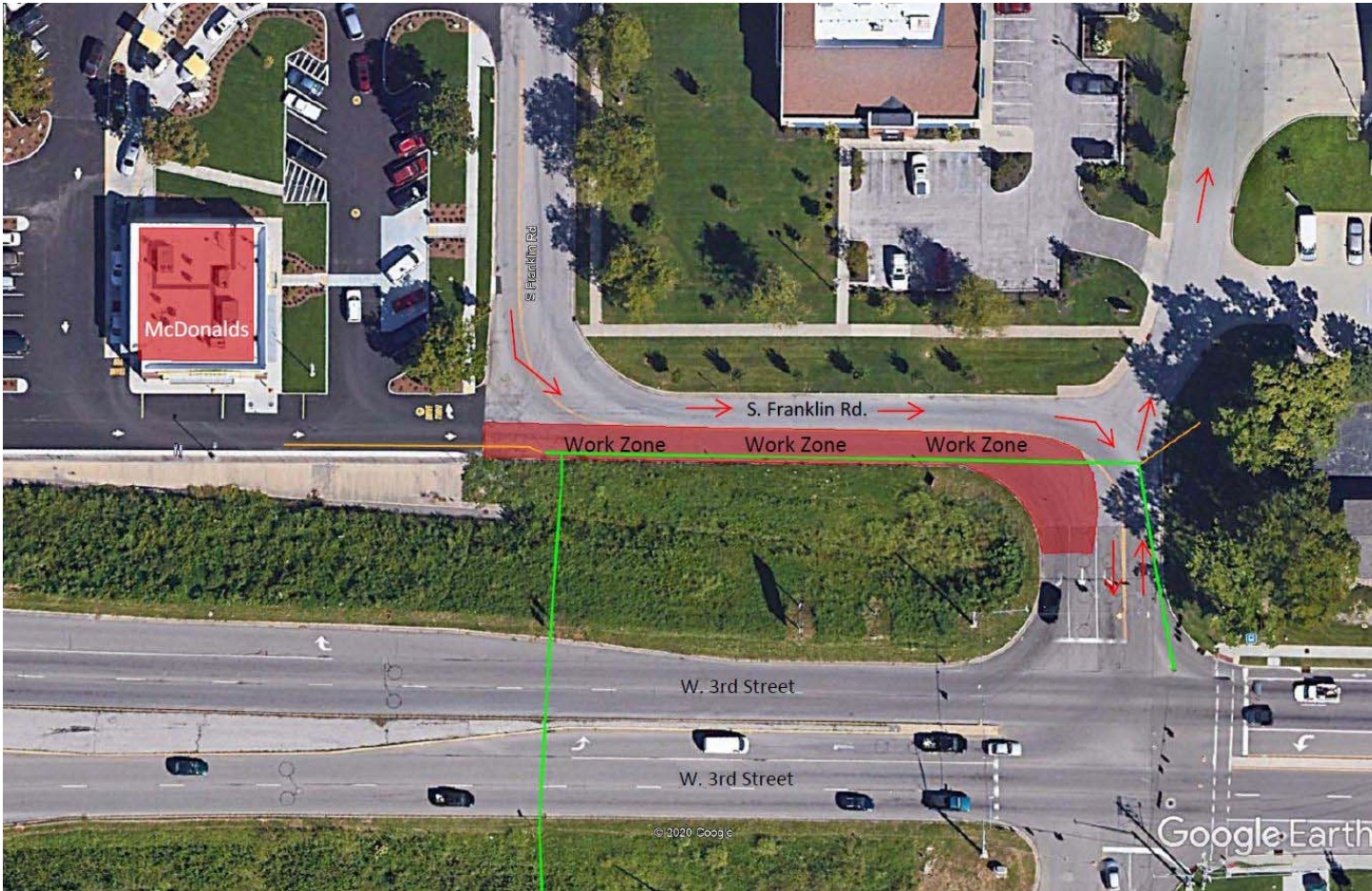
REYNOLDS CONSTRUCTION, LLC

A handwritten signature in black ink that reads 'Jason A. Davis'.

Jason A. Davis
Project Manager

Attachments

Phase I – Maintenance of Traffic Plan

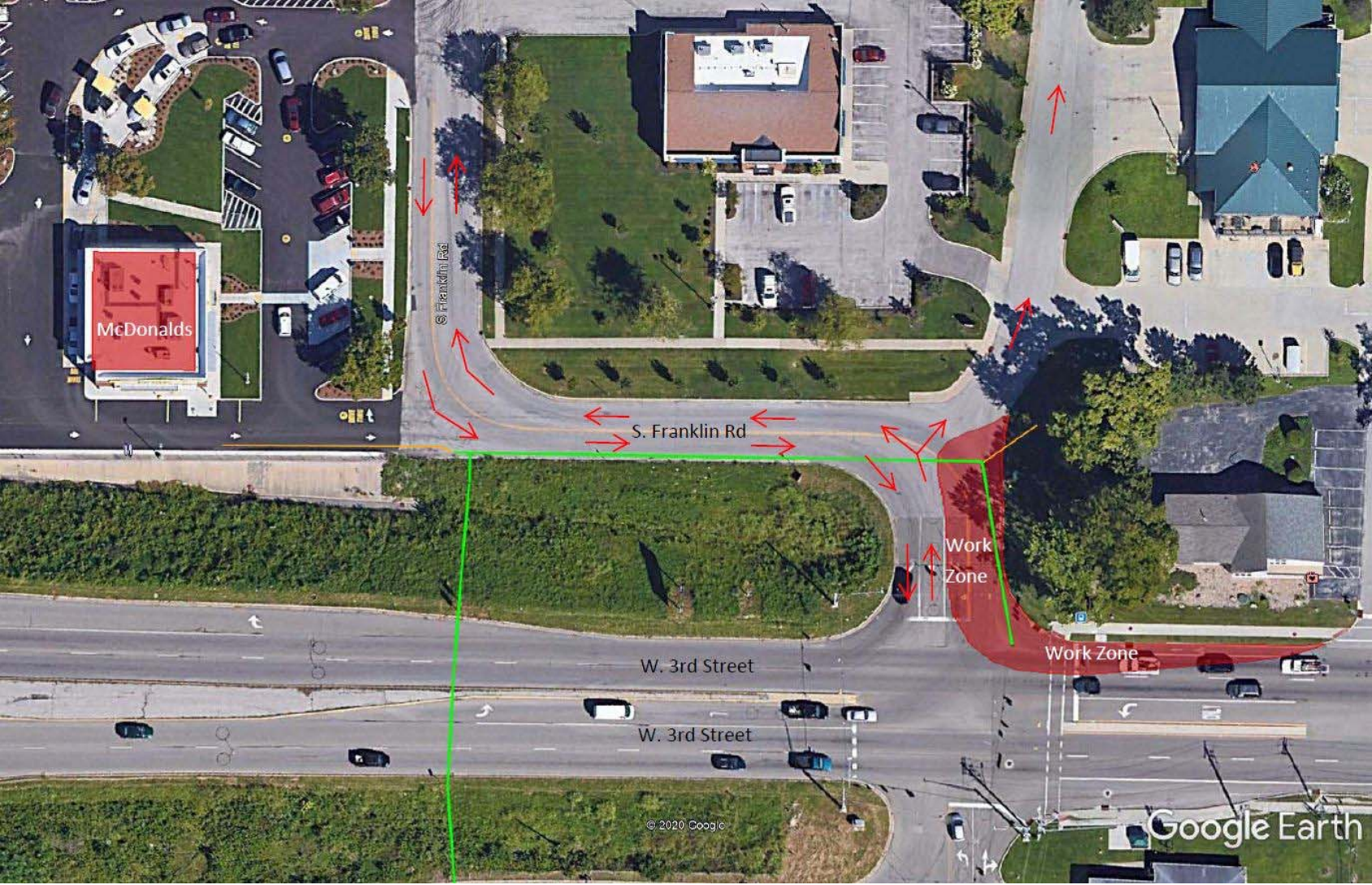


(Work Zone View)



(Detour View)

Phase II – Maintenance of Traffic Plan



CITY OF BLOOMINGTON UTILITIES I-69 UTILITY RELOCATION PROJECT

BLOOMINGTON, INDIANA

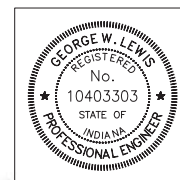


CITY OF BLOOMINGTON
utilities department



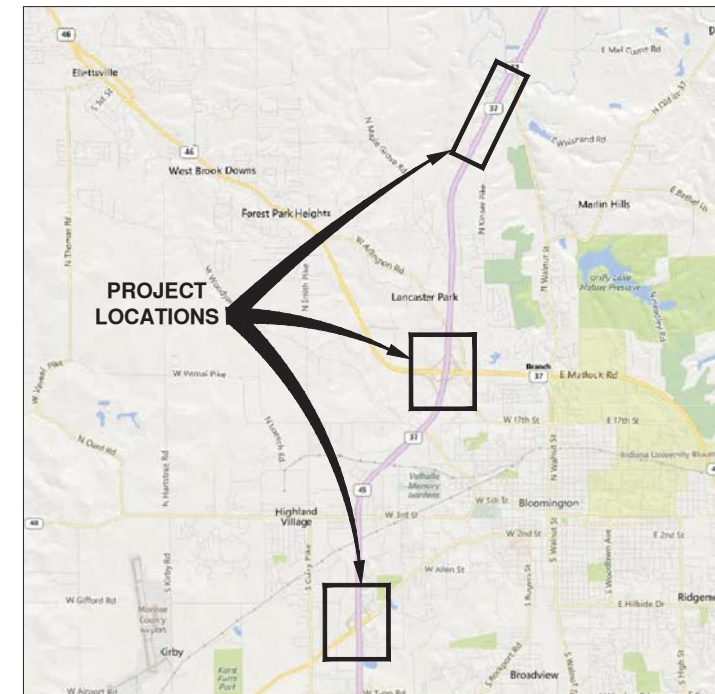
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www.grwinc.com



DATE: 12/2019

GEORGE W. LEWIS, P.E.
INDIANA REG. NO. 10403303



SCALE: 1" = 5000'

WHEN PRINTED, DRAWING SET IS FULL SCALE
ON 24"X36" AND HALF SCALE ON 12"X18"

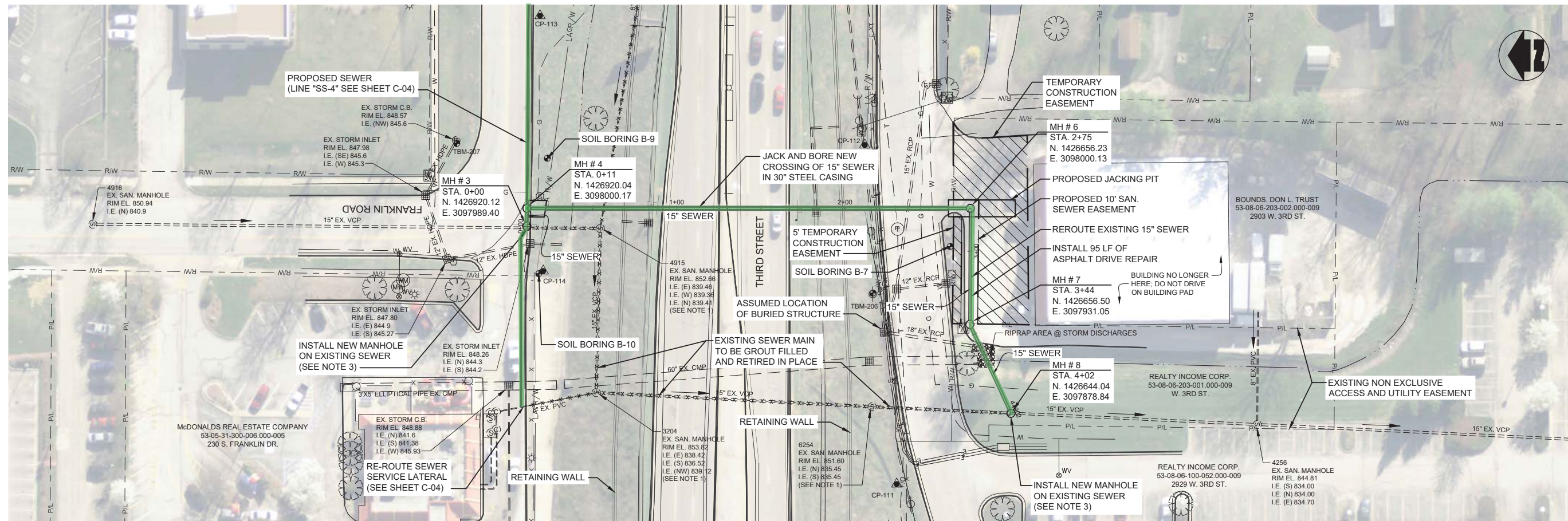
RE-BID DECEMBER 2019

GRW PROJECT NO. 4353-04

PLOTTED BY: JAWIS

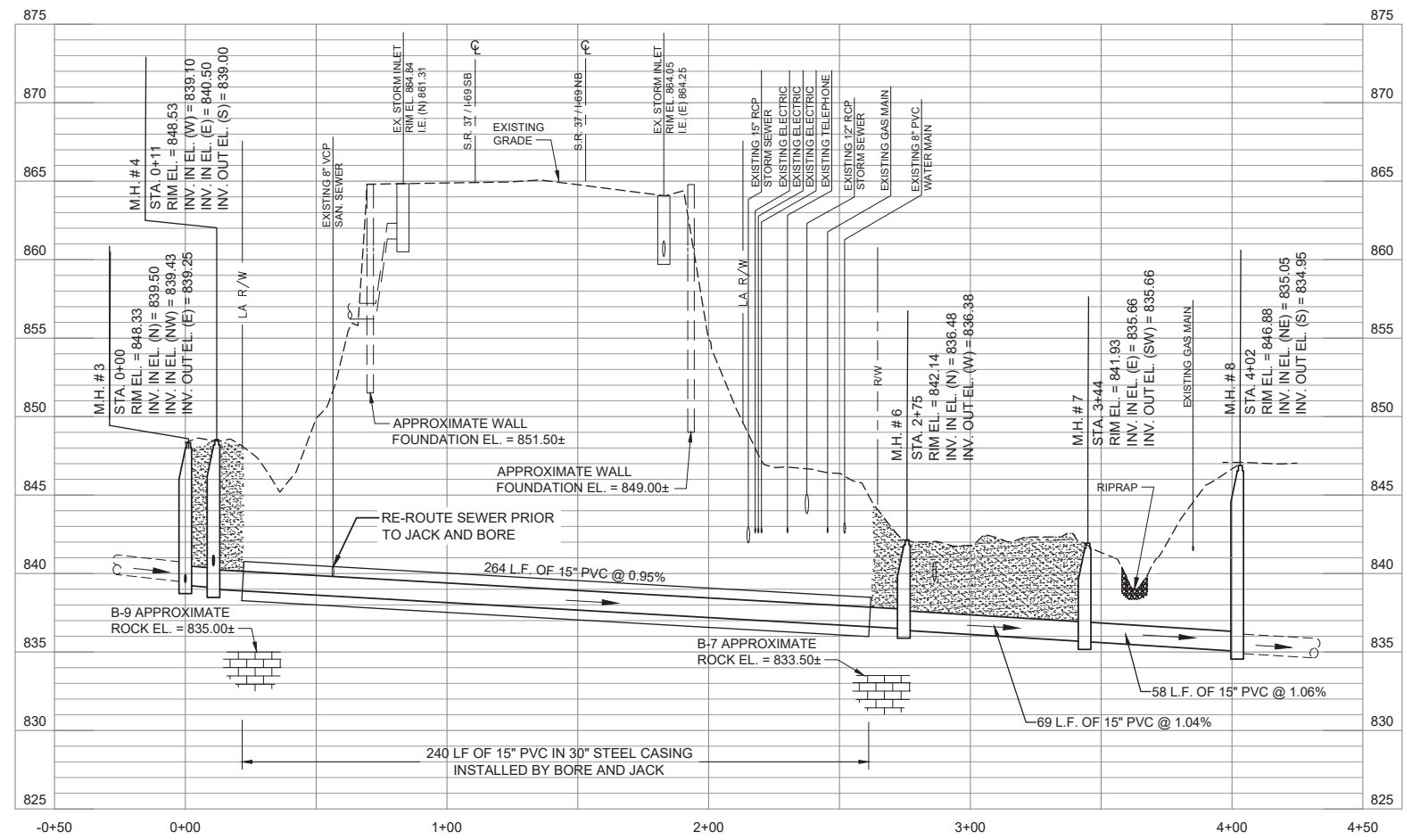
PRINTED: 12/20/2019 @ 12:37PM

FILE NAME: G:\4353-CBU-1469-Rebuild\04-Design\Working Drawings\AutoCAD\4353-C-03_Site 11.dwg



PLAN VIEW - STA. 0+00 TO STA. 3+96 LINE "SS-11"

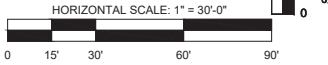
NOTE: AERIAL PHOTO FROM 2014 PRIOR TO I-69 CONSTRUCTION COMPLETION



PROFILE - STA. 0+00 TO STA. 3+96 LINE "SS-11"

* This sheet is provided as additional information detailing the corresponding work on the south side of 3rd Street (not necessarily tied to the ROW permit)

- NOTES:
1. REMOVE MANHOLES 4915, 3204, 6254 TO 4FT BELOW GRADE, FILL WITH GRANULAR MATERIAL AND RETIRE IN PLACE
 2. CONTRACTOR SHALL MAINTAIN ACCESS TO MOVIE THEATRE PARKING LOT DURING COMPLETION OF WORK
 3. FIELD VERIFY DEPTH OF EXISTING SEWERS AND ADJUST GRADES AS NEEDED TO PROVIDE POSITIVE SLOPE FOR ALL FLOW PATHS.



GRW PROJECT NO. 4353
 CLIENT PROJECT NO. -
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PLAN AND PROFILE
 WORK AREA 4 & 11
 I-69 UTILITY RELOCATION PROJECT
 CITY OF BLOOMINGTON, INDIANA

DESIGNED		BY		DATE		DESCRIPTION	
DESIGNED	GWL	BY	GRAN	DATE		DESCRIPTION	
REVIEWED	JRD	BY		DATE		DESCRIPTION	
APPROVED	GWL	BY		DATE		DESCRIPTION	

SCALE CHECK: THIS MARK SHOULD MEASURE EXACTLY WHEN PLOTTED

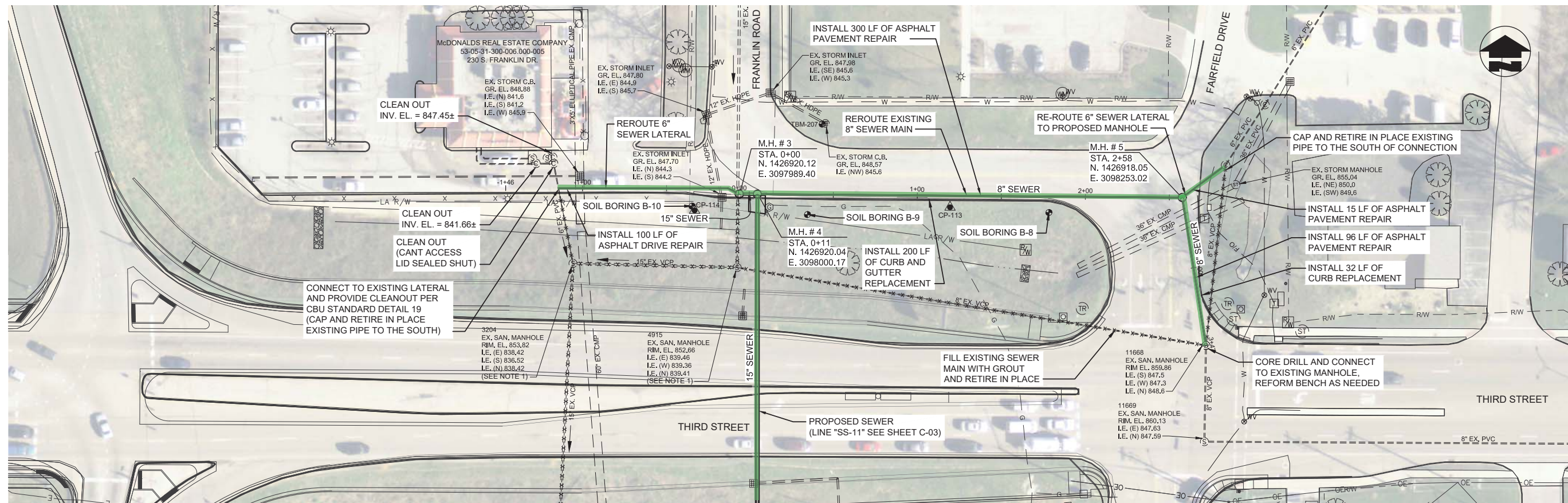
DATE: DECEMBER 2019
 SCALE: 1"=30'
 SHEET NO.:

C-03

PLOTTED BY: jhawes

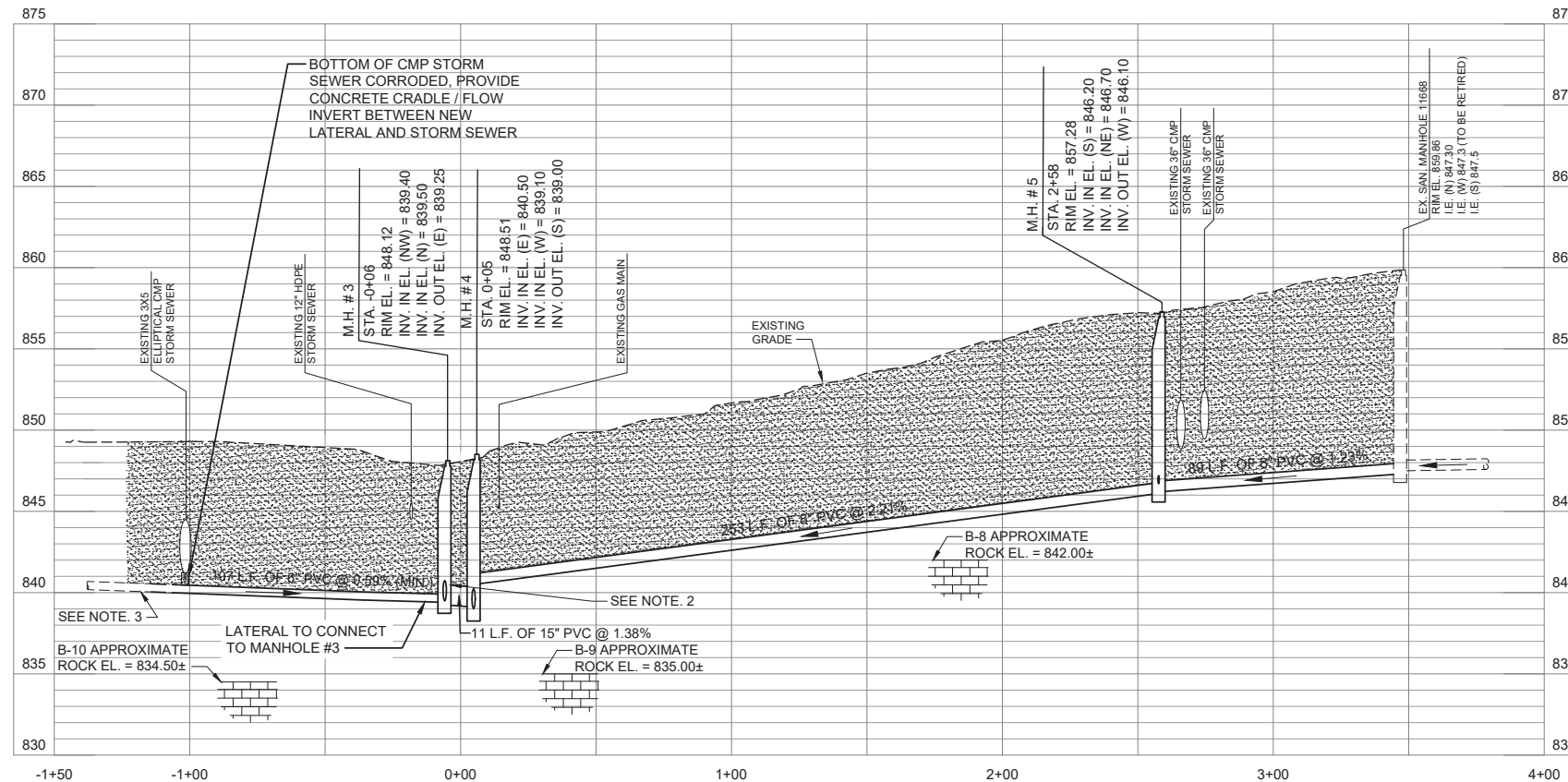
PRINTED: 12/20/2019 @ 12:38PM

FILE NAME: G:\4353-CBU-169-Reloc-04-Design\Working Drawings\AutoCAD\4353-C-04_Sheet04.dwg



PLAN VIEW - STA. 0+00 TO STA. 3+42 LINE "SS-4"

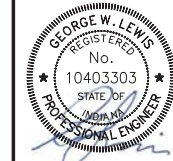
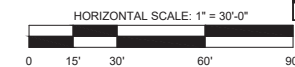
NOTE: AERIAL PHOTO FROM 2014 PRIOR TO I-69 CONSTRUCTION COMPLETION



PROFILE - STA. 0+00 TO STA. 3+42 LINE "SS-4"

Project Location:
39.164805, -86.570380

- NOTES:
1. REMOVE MANHOLES 4915, 3204, 6254 TO 4FT BELOW GRADE, FILL WITH GRANULAR MATERIAL AND RETIRE IN PLACE
 2. TEMPORARILY CONNECT NEW 8" SEWER TO EXISTING 12" SEWER AT NEW MANHOLE NO.3 SO THAT EXISTING 8" CAN BE ABANDONED PRIOR TO JACK AND BORE INSTALLATION
 3. FIELD VERIFY DEPTH OF EXISTING LATERAL AND CONSTRUCT LATERAL REROUTE TO ENSURE POSITIVE SLOPE TO NEW MANHOLE CONNECTION. THE CONTRACTOR WILL BE ALLOWED UP TO 30 MINUTES TO COMPLETE THE CHANGE-OVER TO THE NEW LATERAL IF THE WORK IS TO TAKE PLACE DURING THE REGULAR WORKDAY. IF THE CHANGE-OVER IS ANTICIPATED TO TAKE LONGER, THE CONTRACTOR SHALL COMPLETE THE WORK BETWEEN THE HOURS OF 10PM AND 5AM. THE CHANGE-OVER SHALL BE COORDINATED WITH THE ON SITE MCDONALD'S MANAGER
 4. SEE SHEET C-13 FOR FRANKLIN ROAD MAINTENANCE OF TRAFFIC (MOT) PLAN.



GRW PROJECT NO. 4353
CLIENT PROJECT NO. -

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PLAN AND PROFILE
WORK AREA 4 & 11
I-69 UTILITY RELOCATION PROJECT
CITY OF BLOOMINGTON, INDIANA

DESIGNED	GWL
DRAWN	JRD
REVIEWED	GWL
APPROVED	GWL

NO.	DATE	DESCRIPTION

DATE: DECEMBER 2019

SCALE: 1"=30'

SHEET NO. C-04



Board of Public Works Claim Register

Invoice Date Range 03/23/20 - 04/03/20

Vendor	Invoice Description	Contract #	Payment Date	Invoice Amount
Fund 101 - General Fund (S0101)				
Department 01 - Animal Shelter				
Program 010000 - Main				
Account 43430 - Animal Adoption Fees				
Nora Weber	01-refund adoption fee-feline-3/12/20		04/03/2020	55.00
	Account 43430 - Animal Adoption Fees Totals	1		<u>\$55.00</u>
Account 43442 - Equipment Deposits				
Stefanie Harley	01-trap deposit refund-3/7/2020		04/03/2020	40.00
	Account 43442 - Equipment Deposits Totals	1		<u>\$40.00</u>
Account 52110 - Office Supplies				
6530 - Office Depot, INC	01-paper, envelopes		04/03/2020	104.76
	Account 52110 - Office Supplies Totals	1		<u>\$104.76</u>
Account 52210 - Institutional Supplies				
4623 - Bayer Corporation	01-antibiotics-Claro Otis Solution-3/11/20		04/03/2020	150.59
313 - Fastenal Company	01-scrub brush-3/11/20		04/03/2020	23.02
313 - Fastenal Company	01-toilet tissue-3/11/20		04/03/2020	22.79
313 - Fastenal Company	01-towels, squeegees-3/17/20		04/03/2020	241.54
4586 - Hill's Pet Nutrition Sales, INC	01-canine/puppy/feline/kitten food-3/6/20		04/03/2020	269.58
4586 - Hill's Pet Nutrition Sales, INC	01-canine/puppy/feline/kitten food-3/13/20		04/03/2020	403.48
4633 - Midwest Veterinary Supply, INC	01-disinfecting wipes-3/9/20		04/03/2020	62.52
4633 - Midwest Veterinary Supply, INC	01-anti-parasitics, anti-fungals, supportive therapy-3/10/20		04/03/2020	539.77
4633 - Midwest Veterinary Supply, INC	01-medication bottles, antibiotics, poo bags-3/5/20		04/03/2020	375.81
4633 - Midwest Veterinary Supply, INC	01-sedatives-3/5/20		04/03/2020	82.20
4633 - Midwest Veterinary Supply, INC	01-vinyl exam gloves, food trays, syringes-3/5/20		04/03/2020	260.94
4633 - Midwest Veterinary Supply, INC	01-santizer-3/9/20		04/03/2020	1,474.34
4137 - Patterson Veterinary Supply, INC	01-antivirals-Famciclovir Tab, Pet Corrector-3/11/20		04/03/2020	13.60
4137 - Patterson Veterinary Supply, INC	01-antiviral-Famciclovir Tab-3/11/20		04/03/2020	68.00
4137 - Patterson Veterinary Supply, INC	01-pet corrector 50ML-3/11/20		04/03/2020	63.00
5819 - Synchrony Bank	01-Supplies for Labelling Shelter Items-feet tran, labels		04/03/2020	32.44
5819 - Synchrony Bank	01-Supplies for Labelling Shelter Items-heat transfers		04/03/2020	21.98



Board of Public Works Claim Register

Invoice Date Range 03/23/20 - 04/03/20

5819 - Synchrony Bank	01-Pancreatic Enzyme	04/03/2020	67.19
4666 - Zoetis, INC	01-supportive therapy medication-Apoquel 16mg-3/9/20	04/03/2020	327.10
4666 - Zoetis, INC	01-antibiotics-Cerenia, Clavamox Drops-3/10/20	04/03/2020	318.38
4666 - Zoetis, INC	01-FeLV diagnostics-3/10/20	04/03/2020	283.07
	Account 52210 - Institutional Supplies Totals	21	<u>\$5,101.34</u>
Account 52420 - Other Supplies			
53442 - Paragon Micro, INC	01-Education Room-KeyBoard & Mouse	04/03/2020	88.99
5819 - Synchrony Bank	06-Sanitizing Spray	04/03/2020	15.99
	Account 52420 - Other Supplies Totals	2	<u>\$104.98</u>
Account 53130 - Medical			
3376 - Bloomington Pets Alive, INC	01-spay/neuter surgeries-3/2-3/12/20	04/03/2020	2,276.00
54639 - Shake Veterinary Services, INC (Town & Country Vet	01-spay/neuter surgeries-3/17/20	04/03/2020	968.65
54639 - Shake Veterinary Services, INC (Town & Country Vet	01-emergency services, diagnostics-3/6-3/7/20	04/03/2020	288.36
54639 - Shake Veterinary Services, INC (Town & Country Vet	01-spay/neuter, dental, other surgeries-3/10/20	04/03/2020	1,541.01
	Account 53130 - Medical Totals	4	<u>\$5,074.02</u>
Account 53220 - Postage			
4487 - PMB East, INC (PakMail)	01-BOH shipping-3/10/20	04/03/2020	13.30
	Account 53220 - Postage Totals	1	<u>\$13.30</u>
Account 53510 - Electrical Services			
223 - Duke Energy	19-CH/off site facilities-electric summary bill-3/16/2020	03/24/2020	1,218.14
	Account 53510 - Electrical Services Totals	1	<u>\$1,218.14</u>
Account 53530 - Water and Sewer			
208 - City Of Bloomington Utilities	19-ACC-water/sewer bill February 2020	03/24/2020	497.20
	Account 53530 - Water and Sewer Totals	1	<u>\$497.20</u>
Account 53540 - Natural Gas			
222 - Vectren	19-ACC-gas bill 2/4-3/3/20	03/24/2020	437.63
	Account 53540 - Natural Gas Totals	1	<u>\$437.63</u>
Account 53610 - Building Repairs			
392 - Koorsen Fire & Security, INC	19-SA January Fire Extinguisher Service @ ACC	BC 2019-126 04/03/2020	173.95
	Account 53610 - Building Repairs Totals	1	<u>\$173.95</u>
Account 53990 - Other Services and Charges			



Board of Public Works Claim Register

Invoice Date Range 03/23/20 - 04/03/20

5465 - Emergency Radio Service LLC (ERS-OCI Wireless)

01-radio repair-2/28/20	04/03/2020	630.00
Account 53990 - Other Services and Charges Totals	1	<u>\$630.00</u>
Program 010000 - Main Totals	36	<u>\$13,450.32</u>
Department 01 - Animal Shelter Totals	36	<u>\$13,450.32</u>

Department **02 - Public Works**

Program **020000 - Main**

Account **52110 - Office Supplies**

7149 - Namify, LLC

02-PW Portion of Employee Nametags	04/03/2020	82.04
Account 52110 - Office Supplies Totals	1	<u>\$82.04</u>

Account **53170 - Mgt. Fee, Consultants, and Workshops**

5409 - VS Engineering, INC

13-Blgtn Signal Des.-Walnut & 11th & 14th-period ending 1/21/20	BC 2019-113	04/03/2020	15,200.00
Account 53170 - Mgt. Fee, Consultants, and Workshops Totals	1		<u>\$15,200.00</u>

Account **53990 - Other Services and Charges**

5819 - Synchrony Bank

02-New Docking Station	04/03/2020	149.99
Account 53990 - Other Services and Charges Totals	1	<u>\$149.99</u>
Program 020000 - Main Totals	3	<u>\$15,432.03</u>
Department 02 - Public Works Totals	3	<u>\$15,432.03</u>

Department **03 - City Clerk**

Program **030000 - Main**

Account **52110 - Office Supplies**

7149 - Namify, LLC

1	04/03/2020	35.16
Account 52110 - Office Supplies Totals	1	<u>\$35.16</u>

Account **53210 - Telephone**

13969 - AT&T Mobility II, LLC

03-cell phone charges 2/12-3/11/20	03/24/2020	41.64
Account 53210 - Telephone Totals	1	<u>\$41.64</u>
Program 030000 - Main Totals	2	<u>\$76.80</u>
Department 03 - City Clerk Totals	2	<u>\$76.80</u>

Department **04 - Economic & Sustainable Dev**

Program **040000 - Main**

Account **52110 - Office Supplies**

7149 - Namify, LLC

04 - COB name tag for Jane Kupersmith	04/03/2020	11.72
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Board of Public Works Claim Register

Invoice Date Range 03/23/20 - 04/03/20

Account 53910 - Dues and Subscriptions

53442 - Paragon Micro, INC

Account 52110 - Office Supplies Totals	1	<u>\$11.72</u>
04 - Monthly Power BI allocated subscription (ESD)	04/03/2020	18.32
Account 53910 - Dues and Subscriptions Totals	1	<u>\$18.32</u>
Program 040000 - Main Totals	2	<u>\$30.04</u>
Department 04 - Economic & Sustainable Dev Totals	2	<u>\$30.04</u>

Department 05 - Common Council

Program 050000 - Main

Account 53990 - Other Services and Charges

4123 - Central Indiana Interpreting Service

05 - Council Meeting Interpreting Service - March 4, 2020	04/03/2020	440.00
Account 53990 - Other Services and Charges Totals	1	<u>\$440.00</u>
Program 050000 - Main Totals	1	<u>\$440.00</u>
Department 05 - Common Council Totals	1	<u>\$440.00</u>

Department 06 - Controller's Office

Program 060000 - Main

Account 52110 - Office Supplies

6530 - Office Depot, INC

06-Dust Off Aerosol, note pads	04/03/2020	9.20
Account 52110 - Office Supplies Totals	1	<u>\$9.20</u>

Account 52420 - Other Supplies

5819 - Synchrony Bank

5819 - Synchrony Bank

06-hand sanitizer, gloves	04/03/2020	56.75
06-Table of J. Underwood office	04/03/2020	63.99
Account 52420 - Other Supplies Totals	2	<u>\$120.74</u>

Account 53630 - Machinery and Equipment Repairs

371 - Pitney Bowes, INC

06-Postage meter rental and maintenance 2020	04/03/2020	120.00
Account 53630 - Machinery and Equipment Repairs Totals	1	<u>\$120.00</u>

Account 53990 - Other Services and Charges

910 - BKD, LLP

06 Financial Consulting	04/03/2020	15,600.00
Account 53990 - Other Services and Charges Totals	1	<u>\$15,600.00</u>
Program 060000 - Main Totals	5	<u>\$15,849.94</u>
Department 06 - Controller's Office Totals	5	<u>\$15,849.94</u>

Department 09 - CFRD



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Program 090000 - Main

Account 52110 - Office Supplies

6530 - Office Depot, INC	09-office supplies	04/03/2020	65.76
6530 - Office Depot, INC	09-paper	04/03/2020	64.24
Account 52110 - Office Supplies Totals			2 \$130.00

Account 52420 - Other Supplies

7149 - Namify, LLC	09-4 nametags	04/03/2020	46.88
Account 52420 - Other Supplies Totals			1 \$46.88

Account 53210 - Telephone

13969 - AT&T Mobility II, LLC	09-cell phone charges-J. Whiteaker-2/12-3/11/20	03/24/2020	41.64
Account 53210 - Telephone Totals			1 \$41.64

Account 53960 - Grants

7303 - Mental Health America Monroe County	09-CFRD Gold Sponsorship of Gala and Recognition Dinner	04/03/2020	250.00
Account 53960 - Grants Totals			1 \$250.00
Program 090000 - Main Totals			5 \$468.52
Department 09 - CFRD Totals			5 \$468.52

Department 10 - Legal

Program 100000 - Main

Account 53120 - Special Legal Services

19660 - Bose McKinney & Evans, LLP	10 legal services 222 hats	04/03/2020	2,403.00
608 - Krieg Devault, LLP	10 legal services gov affairs 491210 KD	04/03/2020	2,500.00
6779 - Stewart Richardson & Associates, INC	10 transcript of deposition 234742	04/03/2020	587.51
Account 53120 - Special Legal Services Totals			3 \$5,490.51

Account 53160 - Instruction

6807 - National Employment Law Institute	10 webinar coronavirus 53803	04/03/2020	159.00
Account 53160 - Instruction Totals			1 \$159.00

Account 53990 - Other Services and Charges

12604 - Howard D Bruce (Tabor/Bruce Architecture & Design, INC)	10 legal remodel Tabor Bruce 001	04/03/2020	760.00
12604 - Howard D Bruce (Tabor/Bruce Architecture & Design, INC)	10 legal remodel Tabor Bruce 004	04/03/2020	916.00
Account 53990 - Other Services and Charges Totals			2 \$1,676.00
Program 100000 - Main Totals			6 \$7,325.51



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		Department 10 - Legal Totals	6	\$7,325.51
Department 11 - Mayor's Office				
Program 110000 - Main				
Account 52110 - Office Supplies				
6530 - Office Depot, INC	11-paper (11x17)		04/03/2020	43.05
6530 - Office Depot, INC	11-easel pads for Innovation Boot Camp		04/03/2020	56.98
Account 52110 - Office Supplies Totals			2	\$100.03
Account 52420 - Other Supplies				
50972 - CDW, LLC	11-webcam for Digital Comms		04/03/2020	85.52
6863 - Seybert Enterprises (Roly Poly)	11-Refreshments State of the City address		04/03/2020	425.16
5819 - Synchrony Bank	11-batteries for Digital Comms supplies		04/03/2020	23.18
Account 52420 - Other Supplies Totals			3	\$533.86
Account 53170 - Mgt. Fee, Consultants, and Workshops				
6428 - Kelly M Boatman (Core Projective, LLC)	11-project management OOTM February 2020		04/03/2020	1,785.00
Account 53170 - Mgt. Fee, Consultants, and Workshops Totals			1	\$1,785.00
Account 53210 - Telephone				
13969 - AT&T Mobility II, LLC	11-cell phone charges 2/12-3/11/20		03/24/2020	61.91
Account 53210 - Telephone Totals			1	\$61.91
Account 53310 - Printing				
3892 - Midwest Color Printing, INC	11-business cards for Mick		04/03/2020	41.50
Account 53310 - Printing Totals			1	\$41.50
Account 53960 - Grants				
5954 - The Greater Bloomington Chamber Of Commerce, INC	11-sponsorship package for 2020		04/03/2020	5,300.00
Account 53960 - Grants Totals			1	\$5,300.00
Account 53990 - Other Services and Charges				
2541 - South Central Indiana Interpreting	11-interpretation of State of the City address		04/03/2020	264.00
Account 53990 - Other Services and Charges Totals			1	\$264.00
Program 110000 - Main Totals			10	\$8,086.30
Department 11 - Mayor's Office Totals			10	\$8,086.30

Department **12 - Human Resources**
 Program **120000 - Main**



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Account 52110 - Office Supplies

6530 - Office Depot, INC	12-lysol wipes,	04/03/2020	42.89
6530 - Office Depot, INC	12- pens	04/03/2020	8.07
6530 - Office Depot, INC	12-pens, pencils, staples, letra tape \$100.57	04/03/2020	49.61
Account 52110 - Office Supplies Totals		3	\$100.57

Account 52420 - Other Supplies

53442 - Paragon Micro, INC	12-dell latitude 5500, dell dock WD19 docking station	04/03/2020	599.99
5819 - Synchrony Bank	12-book	04/03/2020	13.32
Account 52420 - Other Supplies Totals		2	\$613.31

Account 53210 - Telephone

13969 - AT&T Mobility II, LLC	12-cell phone charges - 2/12-3/11/20	03/24/2020	23.28
Account 53210 - Telephone Totals		1	\$23.28

Account 53990 - Other Services and Charges

6099 - Safe Hiring Solutions	12-background checks	04/03/2020	87.40
6099 - Safe Hiring Solutions	12-background checks	04/03/2020	97.40
6099 - Safe Hiring Solutions	12-background checks	04/03/2020	76.45
Account 53990 - Other Services and Charges Totals		3	\$261.25
Program 120000 - Main Totals		9	\$998.41
Department 12 - Human Resources Totals		9	\$998.41

Program 130000 - Main

Account 52110 - Office Supplies

6530 - Office Depot, INC	13 - Key tag labels	04/03/2020	21.78
6530 - Office Depot, INC	13 - Key tag labels, dry erase markers, COPY stamp	04/03/2020	21.17
Account 52110 - Office Supplies Totals		2	\$42.95

Account 52420 - Other Supplies

6530 - Office Depot, INC	13 - Paper towels	04/03/2020	8.99
6530 - Office Depot, INC	13 - Desk lamp	04/03/2020	35.99
5819 - Synchrony Bank	13-Grey, tote boxes (2) Sets_(muddy boots-site inspection)	04/03/2020	49.10
5819 - Synchrony Bank	13-Heavy Duty Boot & Shoe Scraper (Eng. site inspections)	04/03/2020	51.38
Account 52420 - Other Supplies Totals		4	\$145.46



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Account 53170 - Mgt. Fee, Consultants, and Workshops

6289 - Clarion Associates, LLC
 5409 - VS Engineering, INC

13-Addendum II to UDO update-services thru 2/29/20	04/03/2020	675.00
13 - Temporary Engineering Staff Support-period ending 2/29/2020 BC 2020-10	04/03/2020	1,644.00
Account 53170 - Mgt. Fee, Consultants, and Workshops Totals	2	\$2,319.00

Account 53210 - Telephone

13969 - AT&T Mobility II, LLC

13-cell phone charges 2/12-3/11/20	03/24/2020	404.94
Account 53210 - Telephone Totals	1	\$404.94

Account 53230 - Travel

5070 - Roy E Aten
 6655 - Elizabeth Carter
 5324 - Neil Henry Kopper
 7306 - Maria Karina Pazos

13- per diem reimb Purdue Road School-3/10-3/11/20	04/03/2020	50.00
13-Per Diem_Travel to Purdue Road School 3/10-3/11/20	04/03/2020	37.00
13-per diem reimb-Purdue Road School-3/10-3/11/20	04/03/2020	62.00
13-per diem reimb-Purdue Road School-3/10-3/11/20	04/03/2020	32.00
Account 53230 - Travel Totals	4	\$181.00

Account 53910 - Dues and Subscriptions

4442 - American Planning Association

13 - APA Membership Dues (Keegan)_4-1-2020--3-31-2021	04/03/2020	99.00
Account 53910 - Dues and Subscriptions Totals	1	\$99.00

Account 53990 - Other Services and Charges

6811 - Beam, Longest & Neff, LLC

13-Ped Bridge & Small Structure Insp-1/27-2/23/20 BC 2019-140	04/03/2020	4,720.36
Account 53990 - Other Services and Charges Totals	1	\$4,720.36
Program 130000 - Main Totals	15	\$7,912.71

Program 132000 - MPO

Account 53230 - Travel

6794 - Ryan Clemens

13-per diem reimb-Purdue Road School-3/10-3/11/20	04/03/2020	99.00
Account 53230 - Travel Totals	1	\$99.00

Program 132000 - MPO Totals	1	\$99.00
Department 13 - Planning Totals	16	\$8,011.71

Department 19 - Facilities Maintenance

Program 190000 - Main

Account 52210 - Institutional Supplies

4443 - The Sherwin Williams Company

19-BPO for paint and paint supplies for facilities	04/03/2020	846.25
Account 52210 - Institutional Supplies Totals	1	\$846.25



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Account 52310 - Building Materials and Supplies

177 - Indiana Oxygen Company, INC

19-cylinder rental, torch supplies, other		04/03/2020	34.16
Account 52310 - Building Materials and Supplies Totals		1	\$34.16

Account 53510 - Electrical Services

223 - Duke Energy

19-CH/off site facilities-electric summary bill-3/16/2020		03/24/2020	7,786.71
Account 53510 - Electrical Services Totals		1	\$7,786.71

Account 53610 - Building Repairs

321 - Harrell Fish, INC (HFI)

7402 - Nature's Way, INC

19-SA Quarterly Planned Maintenance	BC 2019-23	04/03/2020	1,968.00
19-SA Monthly Interior Billing	BC 2019-07	04/03/2020	353.43
Account 53610 - Building Repairs Totals		2	\$2,321.43

Account 53990 - Other Services and Charges

60 - Monroe County Solid Waste Management District

19-Disposal of Alkaline Batteries, Fluorescent Tubes, Ballasts		04/03/2020	78.18
Account 53990 - Other Services and Charges Totals		1	\$78.18
Program 190000 - Main Totals		6	\$11,066.73
Department 19 - Facilities Maintenance Totals		6	\$11,066.73

Department 28 - ITS

Program 280000 - Main

Account 52110 - Office Supplies

6530 - Office Depot, INC

6530 - Office Depot, INC

6530 - Office Depot, INC

6530 - Office Depot, INC

6530 - Office Depot, INC

6530 - Office Depot, INC

6530 - Office Depot, INC

28 - Hand Sanitizer		04/03/2020	3.59
28 - Thank You Cards		04/03/2020	28.98
28 - Nitrile Gloves		04/03/2020	10.49
28 - Kleenexes for Office		04/03/2020	76.49
28 - Hand Sanitizing Wipes for Tech Support Team		04/03/2020	25.14
28 - Thank You Cards		04/03/2020	11.99
28 - CREDIT Hand Sanitizing Wipes for Tech Support Team		04/03/2020	(4.19)
Account 52110 - Office Supplies Totals		7	\$152.49

Account 52420 - Other Supplies

7149 - Namify, LLC

6530 - Office Depot, INC

28 - ITS Nametags		04/03/2020	58.60
28 - Hand Sanitizer		04/03/2020	79.09
Account 52420 - Other Supplies Totals		2	\$137.69

Account 53210 - Telephone



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13969 - AT&T Mobility II, LLC

28-cell phone charges - 2/12-3/11/20	03/24/2020	394.86
Account 53210 - Telephone Totals	1	<u>\$394.86</u>

Account **53640 - Hardware and Software Maintenance**

8750 - Service Express, INC

28 - Server Maintenance - 4/1/20 - 6/30/20	04/03/2020	2,868.00
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5444 - Tyler Technologies, INC

28 - Citizen Transparency Portal - 4/1/20 - 3/31/20	04/03/2020	7,725.00
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Account 53640 - Hardware and Software Maintenance Totals	2	<u>\$10,593.00</u>
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Program 280000 - Main Totals	12	<u>\$11,278.04</u>
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Department 28 - ITS Totals	12	<u>\$11,278.04</u>
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Fund 101 - General Fund (S0101) Totals	113	<u>\$92,514.35</u>
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Fund **152 - Food & Beverage Tax(S9509)**

Department **06 - Controller's Office**

Program **060000 - Main**

Account **53170 - Mgt. Fee, Consultants, and Workshops**

50587 - Barnes & Thornburg LLP

06- Services for Convention Center	04/03/2020	475.68
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Account 53170 - Mgt. Fee, Consultants, and Workshops Totals	1	<u>\$475.68</u>
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Program 060000 - Main Totals	1	<u>\$475.68</u>
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Department 06 - Controller's Office Totals	1	<u>\$475.68</u>
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Fund 152 - Food & Beverage Tax(S9509) Totals	1	<u>\$475.68</u>
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Fund **312 - Community Services**

Department **09 - CFRD**

Program **090003 - Com Serv - Status of Women**

Account **53990 - Other Services and Charges**

1138 - BCT Management, INC

09-2020 WHM Lunch - ticketing services	04/03/2020	203.60
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Account 53990 - Other Services and Charges Totals	1	<u>\$203.60</u>
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Program 090003 - Com Serv - Status of Women Totals	1	<u>\$203.60</u>
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Program **090004 - Com Serv- Accessibility**

Account **53990 - Other Services and Charges**

7163 - Claudia Corina Valdivia

09-Ride hailing training	04/03/2020	33.86
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Account 53990 - Other Services and Charges Totals	1	<u>\$33.86</u>
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Program 090004 - Com Serv- Accessibility Totals	1	<u>\$33.86</u>
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Program **090016 - Com Serv - Safe & Civil**



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Account 52420 - Other Supplies

7281 - Justus Kelley(Creations By Justus)	09-BHM Gala decorations	04/03/2020	300.00
4549 - Kroger Limited Partnership I	09-BHM Essay Contest--refreshments	04/03/2020	27.26
4549 - Kroger Limited Partnership I	09--BHM-State of Black Community--refreshments	04/03/2020	17.86
	Account 52420 - Other Supplies Totals	3	<u>3345.12</u>

Account 53310 - Printing

2077 - JEM Printing, INC (PIP Printing & Marketing)	09-BHM Gala booklet	04/03/2020	296.00
	Account 53310 - Printing Totals	1	<u>\$296.00</u>

Account 53960 - Grants

7285 - Cidella R Crenshaw	09-BHM Essay Contest winner (Jackson Crenshaw)	04/03/2020	100.00
7286 - Robert A Crouch	09-BHM Essay Contest winner (Ridley Crouch)	04/03/2020	75.00
7280 - Evelyn Keyes	09-BHM Essay Contest Winner (Isabelle O'Sullivan)	04/03/2020	100.00
	Account 53960 - Grants Totals	3	<u>\$275.00</u>

Account 53990 - Other Services and Charges

5872 - Dennis E Laffoon (Laffoon Design & Marketing)	09-BHM Gala - booklet design	04/03/2020	600.00
4201 - One World Catering & Events (Lennie's, INC)	09-BHM Gala venue and catering	04/03/2020	9,700.35
7275 - Seth Teeters(Seth Teeters Photography)	09-BHM Gala photographer	04/03/2020	712.50
11693 - The Award Center, INC	09-5 Award plaques for BHM Gala	04/03/2020	120.00
7240 - Troy T Thomas	09-BHM Gala --entertainment	04/03/2020	1,200.00
	Account 53990 - Other Services and Charges Totals	5	<u>\$12,332.85</u>
	Program 090016 - Com Serv - Safe & Civil Totals	12	<u>\$13,248.97</u>

Program 090018 - CBVN

Account 52420 - Other Supplies

4549 - Kroger Limited Partnership I	09-CBVN Partner Gathering--refreshments	04/03/2020	23.46
	Account 52420 - Other Supplies Totals	1	<u>\$23.46</u>
	Program 090018 - CBVN Totals	1	<u>\$23.46</u>

Program G19001 - 2018 ADA Ride Hailing

Account 53170 - Mgt. Fee, Consultants, and Workshops

7163 - Claudia Corina Valdivia	09-Ride hailing training	04/03/2020	16.14
	Account 53170 - Mgt. Fee, Consultants, and Workshops Totals	1	<u>\$16.14</u>
	Program G19001 - 2018 ADA Ride Hailing Totals	1	<u>\$16.14</u>



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	Department 09 - CFRD Totals	16	<u>\$13,526.03</u>
	Fund 312 - Community Services Totals	16	<u>\$13,526.03</u>
Fund 401 - Non-Reverting Telecom (S1146)			
Department 25 - Telecommunications			
Program 254000 - Infrastructure			
Account 52420 - Other Supplies			
1019 - Graybar Electric Company, INC	25 - Network Supplies - Cat5 Cable and Panduit	04/03/2020	305.92
1019 - Graybar Electric Company, INC	25 - Network Supplies - Cat5 Cable	04/03/2020	232.32
	Account 52420 - Other Supplies Totals	2	<u>\$538.24</u>
Account 54450 - Equipment			
6222 - Apple, INC	25 - Capital Replacement - Civil City - 1 Apple iPad Pro	04/03/2020	1,099.00
6222 - Apple, INC	25 - Capital Replacement - Civil City - 1 Apple iPad Pro Access.	04/03/2020	218.00
53442 - Paragon Micro, INC	25 - Capital Replacement - Civil City - 1 Laptop	04/03/2020	1,106.99
53442 - Paragon Micro, INC	25 - Capital Replacement - Civil City - 1 Monitor	04/03/2020	149.99
	Account 54450 - Equipment Totals	4	<u>\$2,573.98</u>
	Program 254000 - Infrastructure Totals	6	<u>\$3,112.22</u>
Program 256000 - Services			
Account 53150 - Communications Contract			
4170 - Comcast Cable Communications, INC	25 - Internet - 401 N Morton - 2020	03/24/2020	149.85
	Account 53150 - Communications Contract Totals	1	<u>\$149.85</u>
Account 54420 - Purchase of Equipment			
53442 - Paragon Micro, INC	25 - Allison Conference Room Mouse and Keyboard	04/03/2020	92.98
	Account 54420 - Purchase of Equipment Totals	1	<u>\$92.98</u>
	Program 256000 - Services Totals	2	<u>\$242.83</u>
	Department 25 - Telecommunications Totals	8	<u>\$3,355.05</u>
	Fund 401 - Non-Reverting Telecom (S1146) Totals	8	<u>\$3,355.05</u>
Fund 450 - Local Road and Street(S0706)			
Department 20 - Street			
Program 200000 - Main			
Account 53520 - Street Lights / Traffic Signals			
223 - Duke Energy	19-CH/off site facilities-electric summary bill-3/16/2020	03/24/2020	87.60



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603 - Traffic Control Corporation

20 Traffic Signal Control Equipment (cabinets, peds, BIU)	04/03/2020	45,000.00
Account 53520 - Street Lights / Traffic Signals Totals	2	<u>\$45,087.60</u>
Program 200000 - Main Totals	2	<u>\$45,087.60</u>
Department 20 - Street Totals	2	<u>\$45,087.60</u>
Fund 450 - Local Road and Street(S0706) Totals	2	<u>\$45,087.60</u>

Fund 451 - Motor Vehicle Highway(S0708)

Department **20 - Street**

Program **200000 - Main**

Account **52420 - Other Supplies**

313 - Fastenal Company	20-safety supplies-safety towels, gloves-3/9/2020	04/03/2020	62.64
313 - Fastenal Company	20-safety supplies-gloves-3/6/20	04/03/2020	16.02
313 - Fastenal Company	20-safety supplies-safety glasses, gloves-3/17/20	04/03/2020	43.17
394 - Kleindorfer Hardware & Variety	20-staples	04/03/2020	11.97
	Account 52420 - Other Supplies Totals	4	<u>\$133.80</u>

Account **53510 - Electrical Services**

223 - Duke Energy	19-CH/off site facilities-electric summary bill-3/16/2020	03/24/2020	404.59
	Account 53510 - Electrical Services Totals	1	<u>\$404.59</u>

Account **53530 - Water and Sewer**

208 - City Of Bloomington Utilities	20 Water Sewer Services for Street Department	03/24/2020	266.72
208 - City Of Bloomington Utilities	20 Water Sewer Services for Street Department	03/24/2020	41.84
	Account 53530 - Water and Sewer Totals	2	<u>\$308.56</u>

Account **53920 - Laundry and Other Sanitation Services**

19171 - Aramark Uniform & Career Apparel Group, INC	20-uniform rental (minus payroll ded)-3/4/20	BC 2009-52	04/03/2020	18.21
19171 - Aramark Uniform & Career Apparel Group, INC	20-uniform rental (minus payroll ded)-3/18/20	BC 2009-52	04/03/2020	43.95
19171 - Aramark Uniform & Career Apparel Group, INC	20-mat/towel service-3/11/20		04/03/2020	34.28
19171 - Aramark Uniform & Career Apparel Group, INC	20-mat/towel service-3/18/20		04/03/2020	34.28
	Account 53920 - Laundry and Other Sanitation Services Totals	4	<u>\$130.72</u>	

Account **53990 - Other Services and Charges**

5465 - Emergency Radio Service LLC (ERS-OCI Wireless)	20 -Two Way Radio Service Contract-3/1-3/31/20		04/03/2020	2,321.25
	Account 53990 - Other Services and Charges Totals	1	<u>\$2,321.25</u>	
	Program 200000 - Main Totals	12	<u>\$3,298.92</u>	



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Fund 452 - Parking Facilities(S9502)

Department 26 - Parking

Program 260000 - Main

Account 52310 - Building Materials and Supplies

394 - Kleindorfer Hardware & Variety

394 - Kleindorfer Hardware & Variety

Account 52420 - Other Supplies

3397 - Evens Time, INC

Account 53210 - Telephone

13969 - AT&T Mobility II, LLC

Account 53510 - Electrical Services

223 - Duke Energy

Account 53610 - Building Repairs

3397 - Evens Time, INC

1420 - Richard Trinkle (Trinkle SnowPlowing LLC)

1420 - Richard Trinkle (Trinkle SnowPlowing LLC)

Account 53840 - Lease Payments

512 - 7th & Walnut , LLC

3887 - Mercury Development Group, LLC

Fund 456 - MVH Restricted

Department 20 - Street Totals	12	\$3,298.92
Fund 451 - Motor Vehicle Highway(S0708) Totals	12	\$3,298.92
26-Bleach brooms gloves clorox disinfectant for Parking Garage	04/03/2020	79.38
26-Supplies for Parking Garage	04/03/2020	48.81
Account 52310 - Building Materials and Supplies Totals	2	\$128.19
26-Repair and Verification of Certificates @ Morton Garage BC 2015-71	04/03/2020	285.00
Account 52420 - Other Supplies Totals	1	\$285.00
02-Pkg Garages-cell phone charges 2/12-3/11/20	03/24/2020	105.21
Account 53210 - Telephone Totals	1	\$105.21
19-CH/off site facilities-electric summary bill-3/16/2020	03/24/2020	2,673.56
Account 53510 - Electrical Services Totals	1	\$2,673.56
26-Integrated Video/Audio Intercom System @ Morton & Walnut BC 2020-08	04/03/2020	30,254.85
26-Snowplowed and Ice melt @ Walnut on 2/28/20	04/03/2020	280.00
26-Snowplowed and Ice melt @ Morton Garage 2/27/2020	04/03/2020	280.00
Account 53610 - Building Repairs Totals	3	\$30,814.85
26-Walnut St Garage-May 2020 garage rent	04/03/2020	18,759.98
26-Morton St Garage-May 2020 garage rent	04/03/2020	38,035.85
Account 53840 - Lease Payments Totals	2	\$56,795.83
Program 260000 - Main Totals	10	\$90,802.64
Department 26 - Parking Totals	10	\$90,802.64
Fund 452 - Parking Facilities(S9502) Totals	10	\$90,802.64



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Department **20 - Street**

Program **200000 - Main**

Account **52330 - Street , Alley, and Sewer Material**

334 - Irving Materials, INC	20-222 S. Walnut-Class A Stone Ash-15 cy-3/12/20	BC 2020-16	04/03/2020	1,522.50
334 - Irving Materials, INC	20-W. Rosewood Dr-Class A Stone Ash-2.50 cy-3/6/20	BC 2020-16	04/03/2020	293.75
334 - Irving Materials, INC	20-3140 S. Walnut-Class A Stone Ash-4 cy-3/3/20	BC 2020-16	04/03/2020	424.00
365 - Rogers Group, INC	20-#11 Stone (58.63 tons), #2 stone (52.27 tons)-3/2-3/4/20		04/03/2020	527.67
	Account 52330 - Street , Alley, and Sewer Material Totals		4	<u>\$2,767.92</u>

Account **52340 - Other Repairs and Maintenance**

5789 - ESL-Spectrum, INC (Lighting Services of Indiana)	20- LED Globe for Street Lights		04/03/2020	250.00
337 - Stansifer Radio Co, INC	20-MN21B Duracell		04/03/2020	2.56
337 - Stansifer Radio Co, INC	20 Signal parts repairs (Duracell, co-ax wire)		04/03/2020	10.50
603 - Traffic Control Corporation	20 Traffic Signal Control Equipment (cabinets, peds, BIU)		04/03/2020	19,906.00
	Account 52340 - Other Repairs and Maintenance Totals		4	<u>\$20,169.06</u>

Account **52420 - Other Supplies**

409 - Black Lumber Co. INC	20-Lower Cascades-DIB white indust striping-3/13/20		04/03/2020	34.95
409 - Black Lumber Co. INC	20-28 oz premium PL adhesive N/P-3/12/20		04/03/2020	15.98
409 - Black Lumber Co. INC	20-4lb doublee face sledge, treated lumber-3/11/20		04/03/2020	39.17
394 - Kleindorfer Hardware & Variety	20-bolt for concrete		04/03/2020	30.61
394 - Kleindorfer Hardware & Variety	20-Sidewalk supplies-concrete nails		04/03/2020	18.49
394 - Kleindorfer Hardware & Variety	20-Signals-marking stick		04/03/2020	23.49
	Account 52420 - Other Supplies Totals		6	<u>\$162.69</u>
	Program 200000 - Main Totals		14	<u>\$23,099.67</u>
	Department 20 - Street Totals		14	<u>\$23,099.67</u>
	Fund 456 - MVH Restricted Totals		14	<u>\$23,099.67</u>

Fund **601 - Cum Cap Development(S2391)**

Department **02 - Public Works**

Program **020000 - Main**

Account **52330 - Street , Alley, and Sewer Material**

19278 - Milestone Contractors, LP	20-Surface-patching-7.66 tons-3/16-3/18/20	BC 2017-16A	04/03/2020	363.85
	Account 52330 - Street , Alley, and Sewer Material Totals		1	<u>\$363.85</u>



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Department 13 - Planning

Program 130000 - Main

Account 53110 - Engineering and Architectural

10081 - Strand Associates, INC

13 - Crosswalk Improvement Project-services 11/1/19-1/31/20	BC 2019-143	04/03/2020	8,235.00
Account 53110 - Engineering and Architectural Totals			1 \$8,235.00
Program 130000 - Main Totals			1 \$8,235.00
Department 13 - Planning Totals			1 \$8,235.00
Fund 601 - Cum Cap Development(S2391) Totals			2 \$8,598.85

Fund 730 - Solid Waste (S6401)

Department 16 - Sanitation

Program 160000 - Main

Account 53210 - Telephone

13969 - AT&T Mobility II, LLC

16-tablets-phone charges 2/12-3/11/20		03/24/2020	461.92
Account 53210 - Telephone Totals			1 \$461.92

Account 53510 - Electrical Services

223 - Duke Energy

19-CH/off site facilities-electric summary bill-3/16/2020		03/24/2020	178.21
Account 53510 - Electrical Services Totals			1 \$178.21

Account 53530 - Water and Sewer

208 - City Of Bloomington Utilities

19-Sanitation-water/sewer bill-February 2020		03/24/2020	197.29
Account 53530 - Water and Sewer Totals			1 \$197.29
Program 160000 - Main Totals			3 \$837.42
Department 16 - Sanitation Totals			3 \$837.42
Fund 730 - Solid Waste (S6401) Totals			3 \$837.42

Fund 800 - Risk Management(S0203)

Department 10 - Legal

Program 100000 - Main

Account 52430 - Uniforms and Tools

1448 - Shoe Carnival, INC

10 shoe carnival 3473725 morrison		04/03/2020	100.00
Account 52430 - Uniforms and Tools Totals			1 \$100.00



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Account 53130 - Medical

6433 - Larry Dean Armes	10 CDL physical 2020 reimbursement armes	04/03/2020	100.00
	Account 53130 - Medical Totals	1	<u>\$100.00</u>

Account 53210 - Telephone

13969 - AT&T Mobility II, LLC	10-Risk Management-cell phone charges 2/12-3/11/20	03/24/2020	44.30
	Account 53210 - Telephone Totals	1	<u>\$44.30</u>

Account 53230 - Travel

18808 - Michael Rouker	10 travel for work comp case	04/03/2020	84.10
	Account 53230 - Travel Totals	1	<u>\$84.10</u>

Account 53420 - Worker's Comp & Risk

2618 - Southeastern Indiana Health Operations, INC (SIHO)	10-Siho-TTD - Sharp/Kinser -202041	03/25/2020	1,201.09
	Account 53420 - Worker's Comp & Risk Totals	1	<u>\$1,201.09</u>
	Program 100000 - Main Totals	5	<u>\$1,529.49</u>
	Department 10 - Legal Totals	5	<u>\$1,529.49</u>
	Fund 800 - Risk Management(S0203) Totals	5	<u>\$1,529.49</u>

Fund 801 - Health Insurance Trust

Department 12 - Human Resources

Program 120000 - Main

Account 53990 - Other Services and Charges

17785 - The Howard E. Nyhart Company, INC	12-Nyhart Admin Fees (FSA,HSA,GYM,Massage)	04/03/2020	1,754.98
17785 - The Howard E. Nyhart Company, INC	12-Nyhart Admin Fees (FSA,HSA,GYM,Massage)	04/03/2020	1,076.64
17785 - The Howard E. Nyhart Company, INC	12-Nyhart Admin Fees (FSA,HSA,GYM,Massage)	04/03/2020	1,119.64
	Account 53990 - Other Services and Charges Totals	3	<u>\$3,951.26</u>

Account 53990.1201 - Other Services and Charges Health Insurance

17785 - The Howard E. Nyhart Company, INC	12-GASB 75 FY2019 Interim \$1,250	04/03/2020	1,250.00
	Account 53990.1201 - Other Services and Charges Health Insurance Totals	1	<u>\$1,250.00</u>
	Program 120000 - Main Totals	4	<u>\$5,201.26</u>
	Department 12 - Human Resources Totals	4	<u>\$5,201.26</u>
	Fund 801 - Health Insurance Trust Totals	4	<u>\$5,201.26</u>

Fund 802 - Fleet Maintenance(S9500)

Department 17 - Fleet Maintenance



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Program **170000 - Main**

Account **52230 - Garage and Motor Supplies**

50605 - Bauer Built, INC	17-tires-disposal fee passenger tires-24		04/03/2020	84.00
13929 - Eckert's Tech Supply, INC	17-stock tire supplies-2/12/20		04/03/2020	69.87
4693 - Monroe County Tire & Supply, INC	17-tires-P265/70R17-4		04/03/2020	674.96
4693 - Monroe County Tire & Supply, INC	17-tires-6.00/6.90-9 Bias Industrial Tubr TR440-1		04/03/2020	15.00
	Account 52230 - Garage and Motor Supplies Totals		4	\$843.83

Account **52240 - Fuel and Oil**

4548 - Midwest Motor Supply (Kimball Midwest)	17-stock fluids-lubricant-24		04/03/2020	282.00
349 - White River Cooperative, INC	17 - Diesel fuel-PDX4 On Road B5-7,033 gallons-3/10/20	BC 2019-107	04/03/2020	13,736.15
349 - White River Cooperative, INC	17-unleaded fuel-87 Regular-8,095 gallons-3/6/20	BC 2019-107	04/03/2020	16,273.38
349 - White River Cooperative, INC	17-fuel-PDX4 on Road 85-3,014 gal./87-Regular-4,545 gal-	BC 2019-107	04/03/2020	12,309.95
	Account 52240 - Fuel and Oil Totals		4	\$42,601.48

Account **52320 - Motor Vehicle Repair**

244 - Bloomington Ford, INC	17-misc parts-sensor, TPMS sensors		04/03/2020	125.44
244 - Bloomington Ford, INC	17-shop-clutch asy-fan		04/03/2020	301.49
244 - Bloomington Ford, INC	17-misc parts-install/program s/o instrument cluster		04/03/2020	645.88
244 - Bloomington Ford, INC	17-misc parts-mirror asy-rear		04/03/2020	125.44
941 - Central Indiana Truck Equipment Corporation	17-#958 interface module		04/03/2020	2,922.18
4335 - Circle Distributing, INC	17-misc parts-rotor asy-2011 Ford Ranger V6-245		04/03/2020	143.06
4335 - Circle Distributing, INC	17-misc parts-front wall		04/03/2020	127.20
4335 - Circle Distributing, INC	17-misc parts-AA5Z6714B 1440/SK		04/03/2020	46.92
4335 - Circle Distributing, INC	17-misc parts-wheel seals		04/03/2020	24.92
4335 - Circle Distributing, INC	17-stock-connector, wrg harn		04/03/2020	105.40
4335 - Circle Distributing, INC	17-stock-misc parts-DG1Z2200B, DG1Z2001F, DG1Z2C026A		04/03/2020	1,116.54
5792 - Clark Truck Equipment Co., INC	17-stock caster wheel, nuts and bolts		04/03/2020	469.70
5896 - Hahn Automotive Warehouse, INC (Speedway AutoParts)	17-shop gloves		04/03/2020	174.60
796 - Interstate Battery System of Bloomington, INC	17-batteries-MT-26R		04/03/2020	86.43
796 - Interstate Battery System of Bloomington, INC	17-31-MHD-4 batteries		04/03/2020	398.12
11672 - Jack Doheny Companies, INC	17 leafer parts for repair & #468-impeller		04/03/2020	1,625.19
4439 - JX Enterprises, INC	17-#485 air gauge and misc. peterbilt parts		04/03/2020	331.20



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394 - Kleindorfer Hardware & Variety	17-10mm bolt		04/03/2020	4.80
5260 - M&K Holding CO. (M&K Quality Truck Sales)	17-stock sensors		04/03/2020	217.36
2974 - MacAllister Machinery Co, INC	17-#677 sensor and oring		04/03/2020	170.89
476 - Southern Indiana Parts, INC (Napa Auto Parts)	17-various parts/equip-February 2020		04/03/2020	6,844.21
6216 - Terminal Supply, INC	17-stock-drill bits		04/03/2020	51.30
582 - Town & Country Chrysler Dodge Jeep, INC	17 - #199C OSL repairs to the water pump		04/03/2020	878.21
622 - Truck Country of Indiana, INC (Stoops Freightliner)	17-misc parts-diagnose & advise condition-3/3/20		04/03/2020	197.34
2096 - West Side Tractor Sales CO.	17-misc parts-excavator-put guage back in		04/03/2020	312.10
2096 - West Side Tractor Sales CO.	17-misc parts-excavator-hard start		04/03/2020	221.50
2096 - West Side Tractor Sales CO.	17-misc parts-dozer-transmission leak		04/03/2020	1,216.20
	Account 52320 - Motor Vehicle Repair Totals		27	<u>\$18,883.62</u>
Account 52420 - Other Supplies				
409 - Black Lumber Co. INC	17-shop-electric drill pump, PVC 90deg elbow, CPVC glue &		04/03/2020	15.57
409 - Black Lumber Co. INC	17-shop-metal grind wheels, mason grind wheels-3/11/20		04/03/2020	11.96
313 - Fastenal Company	17-shop-hex nuts		04/03/2020	1.04
177 - Indiana Oxygen Company, INC	17-gas for torches-acetylene/fuel gases/mix gases/oxygen		04/03/2020	157.47
6530 - Office Depot, INC	17-lockers-2		04/03/2020	755.98
6530 - Office Depot, INC	17-credit-invoice #447126811001		04/03/2020	(76.00)
5819 - Synchrony Bank	17-credit return-Yubico Security Key (Inv. #688786936433)		04/03/2020	(20.00)
	Account 52420 - Other Supplies Totals		7	<u>\$846.02</u>
Account 53510 - Electrical Services				
223 - Duke Energy	19-CH/off site facilities-electric summary bill-3/16/2020		03/24/2020	212.24
	Account 53510 - Electrical Services Totals		1	<u>\$212.24</u>
Account 53530 - Water and Sewer				
208 - City Of Bloomington Utilities	17 - water service		03/24/2020	131.14
	Account 53530 - Water and Sewer Totals		1	<u>\$131.14</u>
Account 53610 - Building Repairs				
321 - Harrell Fish, INC (HFI)	19-SA Repaired Heater @ Fleet	BC 2019-23	04/03/2020	715.91
321 - Harrell Fish, INC (HFI)	19-SA Semi-Annual Backflow Prevention Testing @Fleet	BC 2019-24	04/03/2020	110.00
	Account 53610 - Building Repairs Totals		2	<u>\$825.91</u>
Account 53620 - Motor Repairs				



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582 - Town & Country Chrysler Dodge Jeep, INC	17 - #199C OSL repairs to the water pump		04/03/2020	1,152.80
	Account 53620 - Motor Repairs Totals		1	<u>\$1,152.80</u>
Account 53640 - Hardware and Software Maintenance				
3472 - Lucity, INC	17 Fleet Software for PW vehicle performance tracking	BC 2019-37	04/03/2020	1,680.98
	Account 53640 - Hardware and Software Maintenance Totals		1	<u>\$1,680.98</u>
Account 53920 - Laundry and Other Sanitation Services				
19171 - Aramark Uniform & Career Apparel Group, INC	17-uniform rental (minus payroll ded)-3/11/20		04/03/2020	15.94
19171 - Aramark Uniform & Career Apparel Group, INC	17-mat/towel service-3/11/20		04/03/2020	69.56
19171 - Aramark Uniform & Career Apparel Group, INC	17-uniform rental (minus payroll ded)-03/18/20		04/03/2020	15.94
19171 - Aramark Uniform & Career Apparel Group, INC	17-mat/towel service-3/18/20		04/03/2020	69.56
	Account 53920 - Laundry and Other Sanitation Services Totals		4	<u>\$171.00</u>
Account 54310 - Improvements Other Than Building				
3472 - Lucity, INC	17 Fleet Software for PW vehicle performance tracking	BC 2019-37	04/03/2020	5,148.90
	Account 54310 - Improvements Other Than Building Totals		1	<u>\$5,148.90</u>
	Program 170000 - Main Totals		53	<u>\$72,497.92</u>
	Department 17 - Fleet Maintenance Totals		53	<u>\$72,497.92</u>
	Fund 802 - Fleet Maintenance(\$9500) Totals		53	<u>\$72,497.92</u>
Fund 804 - Insurance Voluntary Trust				
Department 12 - Human Resources				
Program 120000 - Main				
Account 53990.1271 - Other Services and Charges Section 125 - URM- City				
17785 - The Howard E. Nyhart Company, INC	12-City/Util URM		03/23/2020	357.95
17785 - The Howard E. Nyhart Company, INC	12-City/Util URM		03/23/2020	291.01
17785 - The Howard E. Nyhart Company, INC	12-City/Util URM		03/23/2020	42.17
17785 - The Howard E. Nyhart Company, INC	12-City URM		03/24/2020	87.25
17785 - The Howard E. Nyhart Company, INC	12-City URM/DDC		03/24/2020	51.19
17785 - The Howard E. Nyhart Company, INC	12-City/Util URM		03/25/2020	208.08
	Account 53990.1271 - Other Services and Charges Section 125 - URM- City Totals		6	<u>\$1,037.65</u>
Account 53990.1272 - Other Services and Charges Section 125 - DDC- City				
17785 - The Howard E. Nyhart Company, INC	12-City URM/DDC		03/24/2020	895.00
	Account 53990.1272 - Other Services and Charges Section 125 - DDC- City Totals		1	<u>\$895.00</u>



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Account **53990.1281 - Other Services and Charges Section 125 - URM- Util**

17785 - The Howard E. Nyhart Company, INC	12-City/Util URM		03/23/2020	15.00
17785 - The Howard E. Nyhart Company, INC	12-City/Util URM		03/23/2020	89.25
17785 - The Howard E. Nyhart Company, INC	12-City/Util URM		03/23/2020	127.33
17785 - The Howard E. Nyhart Company, INC	12-City/Util URM		03/25/2020	97.08
Account 53990.1281 - Other Services and Charges Section 125 - URM- Util Totals			4	<u>\$328.66</u>
Program 120000 - Main Totals			11	<u>\$2,261.31</u>
Department 12 - Human Resources Totals			11	<u>\$2,261.31</u>
Fund 804 - Insurance Voluntary Trust Totals			11	<u>\$2,261.31</u>

Fund **978 - City 2016 GO Bond Proceeds**

Department **06 - Controller's Office**

Program **06016A - 2016 A Signal Modernization**

Account **54510 - Other Capital Outlays**

20 - Lochmueller Group, INC	13-17th & Dunn Intersection Imp-serv. thru 1/31/20	BC 2019-79	04/03/2020	8,257.46
Account 54510 - Other Capital Outlays Totals			1	<u>\$8,257.46</u>
Program 06016A - 2016 A Signal Modernization Totals			1	<u>\$8,257.46</u>

Program **06016B - 2016 B Ped/Signal/Intersection**

Account **54510 - Other Capital Outlays**

1959 - Clark Dietz INC	13-3rd & Indiana_Signal Proj-11/30-12/31/19	BC 2019-58	04/03/2020	17,541.00
1959 - Clark Dietz INC	13-3rd & Indiana_Signal Proj-1/1-1/31/20	BC 2019-58	04/03/2020	433.47
3663 - WSP USA, INC	13-Sare Rd. Path & Intersection Project-12/7/19-2/6/20	BC 2019-46	04/03/2020	4,855.00
Account 54510 - Other Capital Outlays Totals			3	<u>\$22,829.47</u>
Program 06016B - 2016 B Ped/Signal/Intersection Totals			3	<u>\$22,829.47</u>

Program **06016D - 2016 D Multi Use Paths**

Account **54310 - Improvements Other Than Building**

7059 - Eagle Ridge Civil Engineering Services, LLC	13-Henderson Street Sidepath-Inv. date 2/21/20	BC 2018-112	04/03/2020	1,907.00
7059 - Eagle Ridge Civil Engineering Services, LLC	13-Winslow Avenue Sidepath-Inv. date 2/21/20	BC 2018-111	04/03/2020	1,211.00
7059 - Eagle Ridge Civil Engineering Services, LLC	13-Rogers Road Sidepath-Inv. date 2/21/20	BC 2018-110	04/03/2020	1,119.00
Account 54310 - Improvements Other Than Building Totals			3	<u>\$4,237.00</u>
Program 06016D - 2016 D Multi Use Paths Totals			3	<u>\$4,237.00</u>
Department 06 - Controller's Office Totals			7	<u>\$35,323.93</u>



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Fund 978 - City 2016 GO Bond Proceeds Totals	7	<u>\$35,323.93</u>
Grand Totals	261	<u><u>\$398,410.12</u></u>

REGISTER OF CLAIMS

Board: Board of Public Works Claim Register

Date:	Type of Claim	FUND	Description	Bank Transfer	Amount
4/3/2020	Claims				398,410.12
					<u>398,410.12</u>

ALLOWANCE OF CLAIMS

We have examined the claims listed on the foregoing register of claims, consisting of claims, and except for the claims not allowed as shown on the register, such claims are hereby allowed in the total amount of \$ 398,410.12

Dated this 31st day of March year of 2020.

Kyla Cox Deckard President

Beth H. Hollingsworth Vice President

Dana Palazzo Secretary

I hereby certify that each of the above listed voucher(s) or bill(s) is (are) true and correct and I have audited same in accordance with IC 5-11-10-1.6.

Fiscal Office _____