

ENGINEERING SERVICES COMMITTEE MEETING AGENDA

Commission Chamber Tuesday, July 11, 2023 1:05 PM

ENGINEERING SERVICES

- 1. Presentation by Mr. Richard Jones regarding the train bridge over Olive Road.
- 2. Presentation by Mr. Mike Samadi regarding Solid Waste pickup issues.
- 3. Discuss and consider approving Renovatio Solution. LLC (RLS) "Consistency Letter" request for Construction & Operation of Renewable Energy (Biofuel) Facility at 1680 Dixon Airline Road, Augusta, Georgia. Also, authorize Augusta Engineering & Environmental Services Director providing requested "Consistency Letter" (draft Letter attached) to RLS. Requested by Engineering.
- 4. Approve Award of "Wheeled Cart" Contract to Otto Environmental System (OTTO), subject to receipt of signed contract and associated documents. The Contract is effective 7/1/2023 for thirty (30) months with an option to renew for two additional one-year terms. Also, approve up to \$200,000 to fund this year's purchase of Wheeled Carts. Requested by Engineering. Bid 23-165
- 5. Approve adding funds in amount of \$885,563.05 to Yancy Brothers Landfill Equipment Block Time contract for Rebuilding Compactor-836K. Bid 23-114 / Requested by Engineering
- 6. Approve entering into an agreement with Georgia Power (GP) stating that the City of Augusta will pay for the GP Facility Relocation Cost on Barton Chapel Road @ Gordon Hwy Intersection Improvements Project in accordance with the GP estimate totaling \$7,800.00. Also, approve the Utility Relocation Agreement to be executed by the Augusta, Georgia Legal Counsel and the Mayor, and approve payment as requested by Augusta Engineering.
- 7. Approve Change Order No. 1 to Beam's Contracting, Inc.'s contract to construct the Fort Gordon Cyber CoE Campus Utilities Project E.
- 8. Motion to approve the minutes of the Engineering Services Committee held on June 13, 2023.



Engineering Services Committee

July 11, 2023

Richard Jones

Department: N/A

Presenter: N/A

Caption: Presentation by Mr. Richard Jones regarding the train bridge over Olive

Road.

N/A

Background: N/A

Analysis: N/A

Financial Impact: N/A

Alternatives: N/A

Recommendation: N/A

Funds are available in N/A

the following accounts:

REVIEWED AND

APPROVED BY:

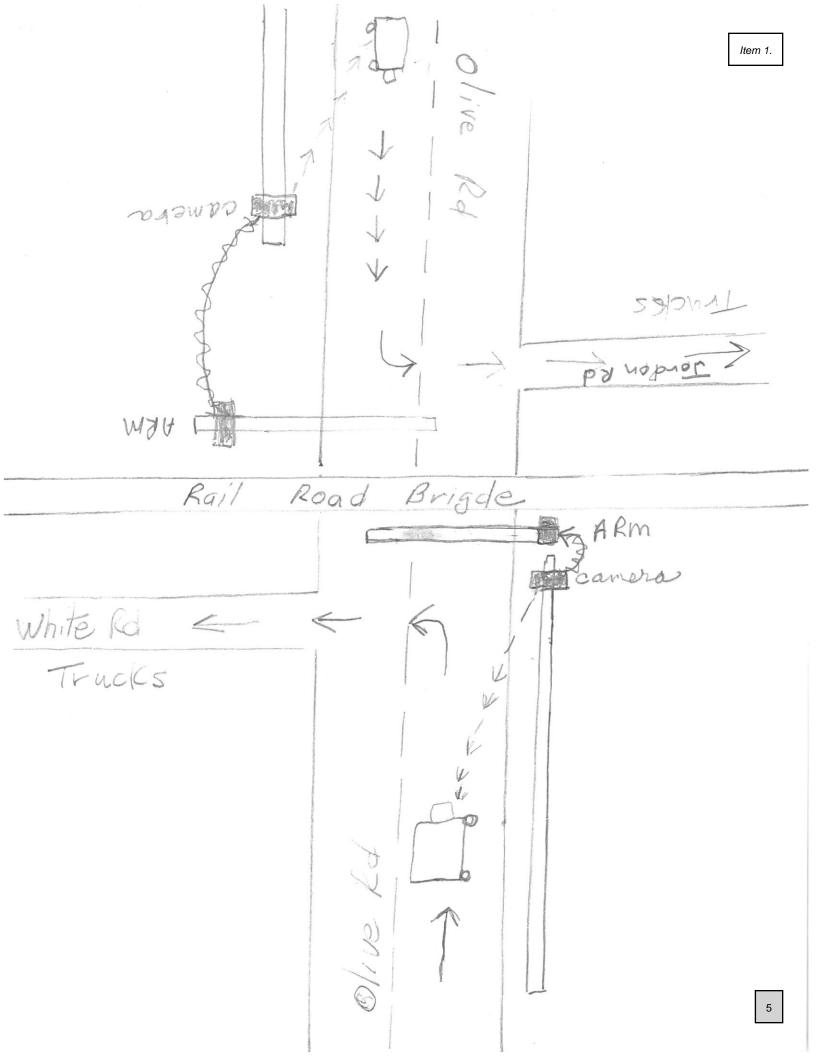
AGENDA ITEM REQUEST FORM

Commission meetings: First and third Tuesdays of each month - 2:00 p.m. Committee meetings: Second and last Tuesdays of each month – 1:00 p.m. Commission/Committee: (Please check one and insert meeting date) Commission Date of Meeting **Public Safety Committee** Date of Meeting Public Services Committee Date of Meeting Administrative Services Committee Date of Meeting **Engineering Services Committee** Date of Meeting Finance Committee Date of Meeting Contact Information for Individual/Presenter Making the Request: Telephone Number: 762-Fax Number: E-Mail Address: Caption/Topic of Discussion to be placed on the Agenda: Please send this request form to the following address: Ms. Lena J. Bonner Telephone Number: 706-821-1820 **Clerk of Commission** Fax Number: 706-821-1838 Suite 220 Municipal Building E-Mail Address: nmorawski@augustaga.gov 535 Telfair Street

Requests may be faxed, e-mailed or delivered in person and must be received in the Clerk's Office no later than 9:00 a.m. on the Thursday preceding the Commission and Committee meetings of the following week. A five-minute time limit will be allowed for presentations.

Augusta, GA 30901

8:54am 6/22/2023





Engineering Services Committee

July 11, 2023

Mike Samadi

Department: N/A

Presenter: N/A

Caption: Presentation by Mr. Mike Samadi regarding Solid Waste pickup issues.

Background: N/A

Analysis: N/A

Financial Impact: N/A

Alternatives: N/A

Recommendation: N/A

Funds are available in N/A

the following accounts:

REVIEWED AND N/A

APPROVED BY:

AGENDA ITEM REQUEST FORM

Commission meetings: First and third Tuesdays of each month -2:00 p.m. Committee meetings: Second and last Tuesdays of each month -1:00 p.m.

Committee meetings: Second and mast 2 and	
Commission/Committee: (Please check one and in	sert meeting date)
Public Safety Committee Public Services Committee Administrative Services Committee Fingineering Services Committee	Date of Meeting
Name: Mcke Samaca	
Address: 1817 Prince Ceorge Telephone Number: 706-364-0555 Fax Number: E-Mail Address: Mike Samodi	q@Cmail.Com
Caption/Topic of Discussion to be placed on the A	genda: es any festory I manaje
Summary atrash from algernation of the transfer of the same transfer of	at Picked up overy Deak Thave to 30 th on 50 4 Hall" Cally onth Time Spon lot of fruits ation
Please send this request form to the following add	ress: for an "in-Compliance pile to be Ricked
Clerk of Commission Fax Nu	mber: 706-821-1820 mber: 706-821-1838 Address: nmorawski@augustaga.gov
Then, I add to it, Then, [Want L VI NOW To
Requests may be faxed, e-mailed or delivered in p Office no later than 9:00 a.m. on the Thursday p meetings of the following week. A five-minute tin	receding the Commission and Committee Fick up

Nancy Morawski

From: Mike Samadi <mikesamadi9@gmail.com>

Sent: Friday, June 23, 2023 4:03 PM

To: Nancy Morawski Subject: [EXTERNAL]

Attachments: 2 meeting requests.pdf

Dear Ms. Morawski:

I hope this email finds you well.

It has been a LONG time since I saw you and I am happy that you are continuing very strong.

Please find the two attached requests for meetings. Since my handwriting may NOT be readable for some people, I am going to re-explain the content of each request below:

1. Request for discussion before the Engineering Services Committee:

I have had trash pick up issues for a long time. Several years ago, I came before the Commission - requested to allow me to handle my own trash collection issues and I was denied. Although from time to time trash bins at some of my properties do not get picked up every week as they are supposed to, but as soon as I place some Tree Limbs or items that do not belong to the trash bin/can (even if the item is "in-compliance" AND even after I discuss item's pick up with the 311 team), the item outside the bin(tree limbs or other larger than trash can), do not get picked up and to add insult to injury, trash bin/cans do NOT get picked up either. Then, as time goes by and NOTHING gets picked up and if I add items outside the bin, I get RED tagged that evrything is out of compliance. LOSS-LOSS situation for me. My repeated calls to the continually changing direct of solid waste directors or even environmental services; has resulted in NOTHING, ignored and received no response.

2. Request for discussing before Public Service Committee:

I have had a Personal Care Home "PCH") for years (since 1993) at the property address 2118 Sanders Rd. I appeared before the commission with my operator and the Commission approved it for Six (6) patient/client. During the past 3-4 years (unknown to me), it seems that some departments (again unknown to me); however, Fire Marshall says the Commission approved the change). State requirement for PCH is 80 Square feet /person. But, in this county (no other county that I know about), this requirement has been changed to 100Sq ft per person. This change is impacting my finances and does not seem to be based on some sufficient data. Moreover, this property has constantly been a PCH ever since 2013. Even if we consider the change to be a serious safety requirement, this property has to be grandfathered in.

Ms. Morawski

I again appreciate your assistance in directing my two (2) concerns to the appropriate team and I appreciate setting up a meeting for July 11, for both issues,

1

Thank you and have a great and safe weekend.

Mike Samadi

Attachements



Commission Meeting

Meeting Date: July 11, 2023

Renovatio Solution, LLC Consistency Letter Request

Renewable Energy Project

1680 Dixon Airline Road, Augusta, Georgia

File Reference: 23-014 (A)

Department: Engineering & Environmental Services

Presenter: Dr. Hameed Malik, Director

Caption: Discuss and consider approving Renovatio Solution. LLC (RLS)

"Consistency Letter" request for Construction & Operation of Renewable Energy (Biofuel) Facility at 1680 Dixon Airline Road, Augusta, Georgia. Also, authorize Augusta Engineering & Environmental Services Director providing requested "Consistency Letter" (draft Letter attached) to RLS.

Requested by Engineering.

Background: No solid waste handling facility or expansion to an existing facility can be

sited in Augusta, Georgia legal boundaries without a determination that the proposed facility or expansion is consistent with the Augusta, Georgia (City) current Solid Waste Management Plan (PLAN). The procedure that the City follows to demonstrate whether to issue a Consistency letter is described under PLAN Section 6.1 (Local Procedures for Demonstrating Facility

Consistency with Solid Waste Management Plan). The site meets City zoning

requirements for this specific use. Site land use rezoning and special

exception use was approved in May 2022.

Analysis: Review of information submitted by Renovatio Solution. LLC (RSL) on June

12, 2023 (Copy attached) suggests the proposed Waste to Energy (Biofuel)

production operation has the potential of improving the Augusta area

environment. In addition, submitted information indicates initial diversion of limited quantity of waste from Augusta Deans Bridge Road landfill (Augusta Facility), however, information also indicates certain waste volume will be generated as byproduct waste that will be disposed of at the Augusta Facility. In summary, submitted information indicates a proposed operation minimum

impact on the Augusta Facility. Hence, Augusta Engineering &

Environmental Services Department is not objecting to Augusta issuing

requested consistency letter.

Financial Impact: N/A

Alternatives: Do not approve

Item 3.

Recommendation: Discuss and consider approving Renovatio Solution. LLC (RLS)

"Consistency Letter" request for Construction & Operation of Renewable Energy (Biofuel) Facility at 1680 Dixon Airline Road, Augusta, Georgia. Also, authorize Augusta Engineering & Environmental Services Director providing requested "Consistency Letter" (draft Letter attached) to RLS.

Requested by Engineering.

Funds are available in the following accounts:

N/A

REVIEWED AND APPROVED BY:

HM/SR



BENJAMIN F. MCELREATH

bmcelreath@hullbarrett.com

-MEMBER OF THE STATE BAR OF GEORGIA

June 12, 2023

VIA HAND DELIVERY

Hameed Malik, Ph.D., P.E. Director of Engineering, City of Augusta 452 Walker Street, Augusta, Georgia 30901

RE: Renovatio Solutions, LLC

Dear Dr. Malik:

I am hereby submitting on behalf of Renovatio Solutions, LLC it response to questions regarding solid waste handling facilities in Augusta-Richmond County, Georgia under Chapter 6 Land Limitation Element. As you are aware, Renovatio Solutions, LLC planning to develop a renewable fuel project at 1680 Dixon Airline Road Augusta, Georgia.

Please let me know if additional information is needed.

Sincerely,

Benjamin F. McElreath

cc Mr. Wesley McLeod

INTRODUCTION:

Renovatio Solutions LLC (RSL) is a privately formed Georgia firm that is seeking to advance the USA renewable energy targets by utilizing its property at 1680 Dixon Airline Road, Augusta-Richmond County, Georgia, to develop a renewable fuel project whereby organic waste streams from MSW and biomass waste will be processed to produce renewable natural gas (RNG) or compressed natural gas (CNG) and other coproducts.

It should be noted that the Georgia legislature passed Bill 274 in 2011, amending the Georgia Code (Part 1, Article 2 of Chapter 8 of Title 12) that banned yard trimmings from MSW landfills and allowing the disposal of trimmings at lined MSW landfills with operating landfill gas collection systems. The bill states that it was designed to encourage beneficial reuse and promote bioenergy and renewable energy goals. The City of Augusta and Richmond County promote technologies that will reduce or eliminate the need to place these materials in landfills.

How the proposed facility or facility expansion will meet the specific goals and/or needs identified in the current Solid Waste Management Plan, including a description of:

The impact upon the collection capability within the planning area.

There will be no significant impact upon the collection capability within the planning area. At the time of RSL's application to the Augusta Planning and Development Department for rezoning and Special Exception Use at the property, (approved in May 2022), the proposed residential MSW collector was not depositing its collected trash at the Augusta Landfill facility.

The impact upon disposal capacity identified in the planning area,

The operation of the proposed biorefinery by RSL will have minimal impact in the planning area. The residential MSW entity that will supply RSL's biorefinery with waste is reported to be disposing approximately 2,080 TPY of waste to Augusta Landfill.

The diversion of that amount of waste to RSL's biorefinery will be negligible for the landfill as the biorefinery is expected to deliver approximately 4,896 TPY of preprocessed non-organic & non – recyclable waste each year to Augusta Landfill.

This slight increase in deposit to the landfill will represent additional revenue for the City of Augusta.

The impact to the waste reduction and recycling efforts within Augusta, specifically how the proposed facility or facility expansion will contribute toward waste reduction in the planning area.

The proposed residential waste collector currently delivers a small portion of its total waste to Augusta Landfill.

¹ https://www.google.com/search?client=firefox-b-1-d&q=augusta+solid+waste+management+plan+2022 - p. 29

By implementing its biorefinery in Augusta-Richmond County, RSL facility will serve to satisfy some sections of Augusta Solid Waste Management Plan (SWMP) goal #2 – Waste Reduction.

How the proposed facility or facility expansion and its operation will impact the community. Specifically, it will address:

The impact to vehicle traffic and public safety around the proposed facility and throughout the planning area;

RSL petition referenced Z-22-25 was approved and an Ordinance referenced 7825. Ordinance 7825, Section II (2) states that "the developer shall provide a completed Traffic Assessment Form to the Traffic Engineer of the Augusta Engineering Department to assess traffic impact study for the development depending on the information provided in the Traffic Assessment Form."

The completed Traffic Impact Worksheet study was prepared by Infrastructure Systems Management, LLC and submitted by RSL to the Augusta Engineering Department in September 2022.

The impact on natural or cultural resources within the planning area.

A Phase I ESA was performed at the project site and the findings confirmed that there are no contaminants, no historical artifacts nor any endangered species on the property.

The impact to the financial viability of the existing solid waste management system within the planning area, both public and private;

The financial viability of Augusta Landfill and other similar facilities in the planning area will not be negatively impacted. In fact, the Augusta Landfill would gain financially due to a slight net increase in waste deposit to that facility.

Other existing facilities will not be affected as RSL's residential MSW collector does not make delivery to those locations.

The impact to individual and business solid waste management rates.

There will be no impact to individual and business solid waste management rates as RSL proposed biorefinery tipping fees will be comparable those of the City of Augusta.

The impact on the current solid waste management infrastructure within the planning area, both public and private.

The impact will be negligible on the current solid waste management infrastructure within the planning area because the proposed biorefinery will be sited close to an area already approved

Thus, building the proposed \$37MM new facility will have a positive impact on the City's tax revenue inflow from a new tax payer.

Evidence that the proposed facility or facility expansion is sited in a location deemed suitable according to the criteria listed in this plan.

The proposed facility will be sited in an area that is deemed suitable according to the criteria listed in Augusta Solid Waste Management Plan (SWMP).

Item 3.

In fact, RSL proposed project site is located close to an approved construction & demolition (C & D) landfill — Dixon Airline Recycling LLC which is reported in Section 5.2 of Augusta SWMP — page 53) to be included in the current planning area for such activities.

Further, a topographic survey was commissioned by RSL for the property located at 1680 Dixon Airline Road, Augusta-Richmond County, GA 30906. The findings confirmed that the proposed project location is not located within the 100 year flood plain.

Evidence that the proposed facility or facility expansion is sited in an area deemed suitable location consistent with local zoning ordinances.

This project is being proposed for development at a property that was rezoned from Agricultural (A) to Heavy Industrial (HI) by the Augusta Planning and Development Department in May 2022. In addition, the property was approved for Special Exception Use to develop a biorefinery at 1680 Dixon Airline Road, Augusta-Richmond County, Georgia 30906.

An Ordinance, referenced 7825, signed May 17, 2022, confirms the amendment to the Comprehensive Zoning Ordinance adopted by Augusta, Georgia Commission (effective September 16, 1997) regarding the changing of the Comprehensive Zoning Map from Zone A (Agricultural) to HI (Heavy Industrial) for property located at 1680 Dixon Airline Road, GA 30906.

Evidence that the proper public notification was given, including notification of all adjacent property owners.

The Augusta Planning and Development Department published in the Augusta Chronicle April 14, 2022 edition as well as erected signage at 1680 Dixon Airline Road, GA 30906 to notify and invite feedback from the public regarding the rezoning of this property from Zone A to HI.

There was no negative feedback from the public regarding this proposed development.

Submitted this 12th day of June, 2023

Benjamin F. McElreath,

Co-Managing Member

Renovatio Solutions, LLC



Chapter 6 LAND LIMITATION ELEMENT

Georgia requires that municipalities "identify those sites which are not suitable for solid waste handling facilities based on environmental and land use factors" in their SWMP. Not all geographic locations are suitable or desirable for a waste management infrastructure, which may include disposal, composting, recycling, and material recovery facilities.

SWMPs play a key role in planning and managing the potential locations of waste management facilities. The Association of County Commissioners of Georgia has stated:

Outside of zoning and land-use (ordinances), a SWMP is the only planning document that has specific legal authorization to govern the siting and operation of a solid waste handling facility within a community. The state may not issue any permits, grants, or loans for any MSW disposal facility or any solid waste handling equipment or recycling equipment that is not consistent with a local SWMP. Counties wishing to manage solid waste facilities that are not permitted by the EPD may want to use their plan and local licensing or ordinances to enforce these provisions of their SWMPs.

The Georgia DNR has multiple rules which address siting limitations and criteria for siting, design, and operating requirements for solid waste handling facilities. In addition, DNR Rule 391-3-4-.05(1)(a) requires that the siting of solid waste handling facilities "must conform to all local zoning/land use ordinances."

6.1 LOCAL PROCEDURES FOR DEMONSTRATING FACILITY CONSISTENCY WITH SOLID WASTE MANAGEMENT PLAN

No solid waste handling facility or expansion to an existing facility can be sited in Augusta without a determination that the proposed facility or expansion is consistent with the current SWMP. The procedure that Augusta and each of the local governments follow to determine whether to issue such a letter is described below.

- 1. At least 90 days prior to filing for a solid waste handling permit, or notifying EPD in the case of a solid waste handling facility that is permitted by rule, the owner/operator will submit to the County a written statement documenting the following:
 - How the proposed facility or facility expansion will meet the specific goals and/or needs identified in the current Solid Waste Management Plan, including a description of:
 - The impact upon the collection capability within the planning area.
 - The impact upon disposal capacity identified in the planning area.
 - The impact to the waste reduction and recycling efforts within Augusta, specifically how the proposed facility or facility expansion will contribute toward waste reduction in the planning area.

Chapter 6 Land Limitation Element



- How the proposed facility or facility expansion and its operation will impact the community.
 Specifically, it will address:
 - The impact to vehicle traffic and public safety around the proposed facility and throughout the planning area;
 - The impact on natural or cultural resources within the planning area.
 - The impact to the financial viability of the existing solid waste management system within the planning area, both public and private;
 - The impact to individual and business solid waste management rates.
 - The impact on the current solid waste management infrastructure within the planning area, both public and private.
- Evidence that the proposed facility or facility expansion is sited in a location deemed suitable according to the criteria listed in this plan.
- Evidence that the proposed facility or facility expansion is sited in an area deemed suitable location consistent with local zoning ordinances.
- Evidence that the proper public notification was given, including notification of all adjacent property owners.
- 2. Within 45 days after the written statement from the owner/operator is received, Augusta Engineering Committee will make a recommendation as to whether the proposed facility or facility expansion is consistent with the SWMP. This recommendation will be documented in a letter to the governing body of the jurisdiction in which the proposed facility or facility expansion is sited. To make a determination , the Engineering Committee will conduct a process that at a minimum includes the following:
 - Determine if the operation of the proposed facility or facility expansion would be consistent with regulations established by the County for privately operated waste handling and disposal facilities as provided for in County Ordinance
 - O Determine the need for the proposed facility or facility expansion, based on projected remaining useful life of existing disposal facilities, will be the initial screen for any finding of consistency with this solid waste management plan. Need will be defined as less than 10 years of disposal capacity remaining, at the time that the request is submitted, in existing disposal facilities recognized in this solid waste management plan. Remaining disposal capacity will be calculated based on an engineering calculation of remaining capacity divided by the annual rate of disposal of in-County and contracted out-of-county waste at the time that the request is submitted given waste reduction programs and performance in place at that time;
 - Determine if the proposed facility or facility expansion is sited in an area deemed unsuitable according to development criteria;
 - Determine if the proposed facility or facility expansion is sited in a location that is consistent with all local zoning ordinances;



- Determine if the proposed facility or facility expansion may negatively impact other natural or cultural resources of the County;
- Determine if the proposed facility or facility expansion would negatively impact the County's ability to contribute to the state-wide solid waste reduction;
- Determine if proposed facility or facility expansion may negatively impact the financial viability of the County's solid waste management system
- Hold at least one public hearing on the proposed facility to gather input regarding the consistency of the facility with the SWMP. This public hearing will be advertised according to local requirements regarding public notification of public hearings;
- Determine if the proposed facility or facility expansion is properly insured so that closure and post-closure care is assured;
- Determine if the proposed facility or facility expansion has a mitigation plan above and beyond financial assurance already required;
- Evaluate the past performance of other waste handling facilities owned or operated by the applicant as a determining factor the feasibility of the new facility or facility expansion. The Committee may recommend withholding approval based on owner or operators past performance;
- Determine if the proposed facility or facility expansion is in the best interest of public health and safety;
- 3. The governing body of the jurisdiction in which the proposed facility or facility expansion is sited shall review the written documentation of consistency from the owner/operator, the recommendation of the Engineering Committee, and comments received at the public hearing to determine whether the proposed facility or facility expansion is consistent with the SWMP. Within 30 days of making their determination, the governing body shall notify the facility owner/operator whether the proposed facility or facility expansion is consistent with the Plan. If the governing body of the jurisdiction determines that the proposed facility or facility expansion is consistent with the SWMP, the governing body will issue a letter of consistency.
- 4. If the governing body of the jurisdiction determines that proposed facility or facility expansion is not consistent with the SWMP, the owner/operator may address the inconsistencies and resubmit their request for another review. This review will follow the process described above in Items 1 thorough 3.

6.2 INVENTORY AND NATURAL ENVIRONMENTAL LIMITATIONS

6.2.1 INVENTORY LAND AREAS

Augusta occupies a land area of 207,386 acres, or 324.04 square miles (sq. mi), with an additional 2,823 acres (4.41 sq. mi.) of water area. Augusta straddles the Fall Line, a geological boundary following the Appalachian mountain range from Alabama to New York. In Georgia and South Carolina, the Fall Line

Item 3.



AUGUSTA AIKEN EVANS

BENJAMIN F. MCELREATH

bmcelreath@hullbarrett.com

- MEMBER OF THE STATE BAR OF GEORGIA

April 20, 2023

VIA EMAIL hmalik@augustaga.gov

Dr. Hameed Malik Director of Solid Waste Management Augusta-Richmond County, Georgia 425 Walker Street Augusta, Georgia 30901

Dear Dr. Malik:

It was a pleasure to meet you a few weeks ago. As you and I discussed, I am involved with Renovatio Solutions LLC (RSL) that I set up with my business partner, Wesley McLeod. We are working to develop a biorefinery at our property located at 1680 Dixon Airline Road, Augusta, Georgia 30906. This property, coincidentally, is located adjacent to an existing inert landfill.

RSL property has been rezoned from Agricultural to Heavy Industrial (HI) as well as for Special Exception Use, per Ordinance referenced #7825, which was issued to our company, Renovatio Solutions LLC.

Our proposed biorefinery facility will utilize an anaerobic digestion technology to convert organic material from MSW and woody biomass to produce renewable natural gas (RNG) and digestate/soil amendment.

01842485-1

HULL BARRETT, P.C., 801 BROAD STREET, FLOOR 7, AUGUSTA, GEORGIA 30901-1231
TELEPHONE 706.722.4481 OR DIRECT 706.828.2042

WWW.HULLBARRETT.COM

We were informed by the Georgia Environmental Protection Division - Recovered Material Unit, that as a part of the support for an application for a Solid Waste Handling permit, RSL would need to first obtain a Consistency Letter from the City of Augusta or Solid Waste Management Division that oversees the Augusta-Richmond County area. This letter (Consistency Letter) should confirm that the proposed project is consistent with authorized use of the property.

RSL has received its zoning letter from the Augusta Planning Department. However, the finalization of RSL's application for a Solid Waste Handling permit is only awaiting a letter from your department confirming that our facility would fall within the Solid Waste Management Plan previously approved by Augusta, Georgia.

Therefore, could you please provide RSL with a Consistency Letter for attachment to finalize its permit application? Also, please let us know if whether there is a cost for the preparation of this letter.

Thank you in advance for your feedback.

Sincerely,

Benjamin McElreath

cc Wesley McLeod

Renovatio Solutions, LLC c/o Benjamin F. McElreath 3540 Wheeler Road, Suite 309 Augusta, GA 30909

RE: RENOVATIO SOLUTIONS, LLC

-

Sincerely,

Augusta, Georgia

Dear Mr. McElreath;

April 20, 2023, Renovatio Solutions, LLC requested a Consistency Letter (that is, a Letter of Conformity) with Augusta Solid Waste Management Plan (update 2019-2028). Local procedures for demonstrating facility consistency with Augusta Solid Waste Plan (PLAN) are described under section 6.1 of the PLAN. The PLAN section 6.1 required information was submitted on June 12, 2023.

Based on the information provided in your letter of inquiry and June 12, 2023 submittal, we have determined that the request is within the guidelines of our Solid Waste Management Plan.

Please feel free to contact us at (706) 796-5069 should you need any additional information and/or clarification.

Hameed Malik, PE., Ph.D,
Augusta Engineering & Environmental Services Director

{01851411-1}



Commission Meeting

Meeting Date: July 11, 2023

Wheeled Carts for Augusta, Georgia

Augusta Engineering and Environmental Services Department

BID Item #23-165

File Reference: 23-014 (A)

Department: Engineering & Environmental Services

Presenter: Dr. Hameed Malik, Director

Caption: Approve Award of "Wheeled Cart" Contract to Otto Environmental System

(OTTO), subject to receipt of signed contract and associated documents. The Contract is effective 7/1/2023 for thirty (30) months with an option to renew for two additional one-year terms. Also, approve up to \$200,000 to fund this year's purchase of Wheeled Carts. Requested by Engineering. Bid 23-165

Background: Residential waste collection contracts requires that Augusta, Georgia

Environmental Operations (ES) provide replacement carts upon receiving customers request. The in stock wheel carts inventory is depleted and there is continuous need to purchase additional wheel carts to maintain obligation and satisfactory level of waste collection contracted service. A Previous such

contract has expired and a new contract for wheel carts is warranted.

Analysis: Bids were received on May 16, 2023 with Otto Environmental System being

the selected firm. Received bids were evaluated on basis of unit prices and acceptance of specifications and warranty requirements. Received Unit Price

schedule summary table is attached as EXHIBIT A.

Financial Impact: Funds are available in the amount of \$200,000 in Environmental Services

Operations funds (542-044110-52.13119).

Alternatives: Do not approve and identify Wheeled Carts alternate procurement method.

Recommendation: Approve Award of "Wheeled Cart" Contract to Otto Environmental System

(OTTO), subject to receipt of signed contract and associated documents. The Contract is effective 7/1/2023 for thirty (30) moths with an option to renew for two additional one-year terms. Also, approve up to \$200,000 to fund this year's purchase of Wheeled Carts. Requested by Engineering. Bid 23-165

Funds are available in

(\$200,000) 542044110 – 52.13119 - Environmental Services Operations

the following accounts: funds

REVIEWED AND APPROVED BY:

HM/SR

EXHIBIT A - 23-165 Wheeled Carts Unit Price Schedule

23-165

Bid-Waste	Wheeled Carts	RehrigPacific CO	SCHAFER	TOTER	ОТТО
	ITEM	UNIT RATE	UNIT RATE	UNIT RATE **	UNIT RATE
	96-Gallon Cart (2023-2024)	\$56.35	\$56.01	\$59.88	\$56.00
	96-Gallon Cart (2025)	\$56.35	\$56.01	\$59.88	\$56.00
	35-Gallon Cart (2023-2024)	\$45.36	\$45.97	\$43.88	\$37.34
	35-Gallon Cart (2025)	\$45.36	\$45.97	\$43.88	\$37.34
	Wheels (per wheel by pallet or Gaylord)	\$10.00	\$5.00	\$5.00	\$6.95
Lids (each)/96-Gallon Ca	Lids (each)/96-Gallon Cart	\$19.00	\$12.00	\$18.64	\$16.50
	Lids (each)/35-Gallon Cart			\$14.46	
	Bars (each)	\$4.00	\$3.50	Not Available	\$5.74
	In-mold Label (95-Gallon cart & Lid)	\$0.35	\$1.83	\$5.81	\$2.06
In-mold Label (35-Gallon cart & Lid)		\$0.35	\$3.42	\$5.81	\$2.06
				No Price for	
	Total of all Items	\$237.12	\$229.71	one item	\$219.99

NOTE: OTTO Is recommended vendor for procuring items under Bid 23-165

Item 4.



Bid Opening Bid Item #23-165 Wheeled Carts for Augusta, GA – Augusta Engineering and Environmental Services Department Bid Date: Tuesday, May 16, 2023 @ 11:00 a.m.

Total Number Specifications Mailed Out: 7

Total Number Specifications Download (Demandstar): 179

Total Electronic Notifications (Demandstar): 13

Georgia Procuement Registry: 379 Pre-Proposal Conference Attendees: Total Packages Submitted: 4 Total Noncompliant: 0

•				
Vendors	Otto Enviromental Systems 12700 General Drive Charlotte, NC 28273	Toter, LLC 841 Meacham Road Statesville, NC 28677	Schafer Plastics North America, LLC 10301 Westlake Drive Charlotte, NC 28273	Rehrig Pacific Company 1000 Raco Court Lawrenceville, GA 30046
Attachment B	Yes	Yes	Yes	Yes
Addendum 1	Yes	Yes	Yes	Yes
E-Verify #	1521020	1435409	1805429	446759
SAVE Form	Yes	Yes	Yes	Yes
		Bid Price		
96-Gallon Cart 2023-2024	\$56.00	\$59.88	\$56.01	\$56.35
96-Gallon Cart 2025	\$56.00	\$59.88	\$56.01	\$56.35
35-Gallon Cart 2023-2024	\$37.34	\$43.88	\$45.97	\$45.36
35-Gallon Cart 2025	\$37.34	\$43.88	\$45.97 \$45.36	
		Parts and Pieces		
Wheels	\$6.95	\$5.00	\$5.00	\$10.00
Lids	\$16.50	\$14.46 - 35 Gallon \$18.64 - 96 Gallon	\$12.00	\$19.00
Bars	\$5.75	N/A	\$3.50	\$4.00
In-mold Label (95 Gal cart/lid)	\$2.06	\$5.81	\$1.83	\$0.35
In-mold Label (35 Gal cart/lid)	\$2.06	\$5.81	\$3.42	\$0.35



ENGINEERING & ENVIR. SVCS. DEPARTMENT

Hameed Malik, Ph.D., P.E., Director

TO:

Ms. Geri Sams, Director - Procurement

FROM:

Hameed Malik, Ph.D., PE, Director-Engineering

DATE:

Tuesday, May 30, 2023

SUBJECT:

Wheeled Carts

For Augusta, GA Engineering & Environmental Services Department

Project Number: N/A

Bid 23-165

File Reference: 23-014(A)

Ms. Sams, it is recommendation of Augusta Engineering & Environmental Services Department (AEESD) to award the Waste Wheeled Carts contract (Bid# 23-165) to Otto Environmental Systems. (ATTO). AEESD reviewed received all qualified bids and determined that OTTO offered bid is the highest qualified bids among all. Also, OTTO offered lowest overall unit rate and key items (Wheeled Carts) unit rate.

AEESD 23-165 award recommendation is contingent upon receipt of all necessary documents from the OTTO: Accordingly, AEESD will be preparing bid award agenda items for Augusta Commission action and approval.

Should you require additional information, please do not hesitate to contact me at (706)796-5040.

Thank you.

/hm

cc.

Darrell White & Nancy Williams, Procurement Department
Becky Padgett, Environmental Services SW Collection Contract & Event Manager
June Hamal, Augusta Engineering Associate Director Construction & Program Delivery
Program File

Planholders

Add Supplier

Export To Excel

Supplier (13)

Supplier ₹↓	Download Date	
СНА	05/01/2023	4
Duramax Holdings LLC dba: Otto Environmental Systems	03/31/2023	
Falco Industries LLC	04/24/2023	
Georgia Correctional Industries	03/31/2023	
Holzberg Communications, Inc.	04/04/2023	
IPL Inc.	04/04/2023	
JK's All Season Lawn Care LLC	04/01/2023	
JLUL LOGISTICS LLC	03/31/2023	
Method 3 lic	03/31/2023	
Onvia, Inc Content Department	03/31/2023	
Schaefer Plastics North America, LLC.	04/03/2023	
The Office Cart, LLC	04/05/2023	
TOTER LLC	03/31/2023	

Add Supplier

Supplier Details

Supplier Name CHA

Contact Name Kevin Skinner

Address 5391 White Oak Road , Appling, GA 30802

Email kskinner@chacompanies.com

Phone Number 678-457-0488

Documents

Filename Type

Action

28

••			
W W GRAINGER INC 2023-03-31	rat.duffy@grainger.com GRAINGERGOV, GRAINGERGOV		
W W GRAINGER INC 2023-03-31	richard.rodriguez@grainger.com RICHARD.RODRIGUEZ@GRAINGER.COM, RICHARD.RODRIGUEZ@GRAINGER.COM		
WASTE SERVICES OF TENNESSEE 2023-03-31	kfuquea@santekenviro.com Fuquea, Kenny	N	NOM
WASTE SERVICES OF TENNESSEE 2023-03-31	tydavis@santekenviro.com TYDAVIS, TYDAVIS		
WASTEQUIP MANUFACTURING COMPANY INC 2023-03-31	bids@wastequip.com WQBIDS, WQBIDS	N	NOM
WELLS FARGO FINANCIAL ACCEPTANCE 2023-03-31	laurel.hill@wellsfargo.com LAURELHILL, LAURELHILL	N	NOM
WELLS FARGO FINANCIAL ACCEPTANCE 2023-03-31	michael.crossley@wellsfargo.com MECROSSLEY, MECROSSLEY		
WOOD TECH LLC 2023-03-31	brandy@woodtechmulch.com Bozeman, Brandy	N	NOM
WOOD TECH LLC 2023-03-31	djackman@woodtechmulch.com Jackman, Donnie		
Wonhard Ventures, LLC 2023-03-31	Maurice.bobo@wonhardventures.com Bobo, Maurice	N	NOM
Zero Waste Solutions, Inc. 2023-03-31	bademail@doas.ga.gov Singh, Shavila	N	NOM
q 2023-03-31	jtemperilli@garner-es.com Temperilli, John	N	NOM
q 2023-03-31	striplett@garner-es.com Triplett, Sherri		

COUNT
11
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379

REHIG PACIFIC CO. 1000 RACO COURT LAWRENCEVILLE, GA 30046 CASCADE ENGINEERING 4950 – 37TH STREET SE GRAND RAPIDS, MI 49512 TOTER INC 841 MEACHAM ROAD STATESVILLE, NC 28677

OTTO ENVIRONMENTAL SYSTEMS Y 12700 GENERAL DRIVE CHARLOTTE, NC 28273 SCHAEFER SYSTEMS INTERNATIONAL, INC. P. O. BOX 7009 CHARLOTTE, NC 28241

Bid Item #23-165 Wheeled Carts for Augusta, GA – Augusta Engineering and Environmental Services Department Due Tuesday, May 16, 2023 @ 11:00 a.m.

BIDDERS LIST

BID ITEM #_	23-165	COST \$	
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#	COMPANY'S NAME & CONTACT PERSON	COMPLETE MAILING ADDRESS TELEPHONE & FAX NUMBERS	DATE	SPEC#	INITIALS	MAILED BY
1		P.O. BOX 725486 AHanta, GA 36339	4-12-23	(1	18	R
2	Stephen Edwards	4833 Snap Creek Lane Decadur GA 30035	4-13-23	11	AS	AS
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Commission Meeting

Meeting Date: July 11, 2023

Landfill Compactor Rebuild Repair

File Reference: 23-014(L)

Department: Engineering & Environmental Services

Presenter: Dr. Hameed Malik, Director

Caption: Approve adding funds in amount of \$885,563.05 to Yancy Brothers Landfill

Equipment Block Time contract for Rebuilding Compactor-836K. Bid 23-

114 / Requested by Engineering

Background: In December 2022, Caterpillar Compactor 836K caught fire at active phase

of the landfill. Damage to equipment was significant making and requiring a damage & rebuild assessment. Yancy Brothers (Yancy) is under contract for landfill equipment repairs and maintenance and was tasked to check out the damaged machine and compile the machine rebuild cost. The Compactor is one of the most critical equipment in landfill operations for achieving placed waste maximum compaction and optimized airspace utilization. Airspace directly correlates to landfill operational cost. Without the operating compactor, the landfill operation compliance becomes difficult and valuable

airspace is lost. DBRLF operation is a daily eleven-hour waste intake operation and getting the damaged compactor repaired and back in operation

is the fastest and cost-effective alternative.

Analysis: Yancy (CAT) is under contract for landfill equipment repairs and having

Yancy (CAT) perform a certified rebuild will restore the unit to like a new status and include a 1-year warranty on the overall but also includes a

5year/10,000-hour power train warranty. In addition, there is around eighteen (18) months period to purchase new machine and cost is around \$1.8 million, hence rebuild damaged machine was cost effective and least wait option to

get compactor back on working phase compacting waste.

Financial Impact: Funds in amount of \$885,563.05 are available in Environmental Services

Operation FY2023 budget (541044210/5422510).

Alternatives: Not recommended.

Recommendation: Approve adding funds in amount of \$885,563.05 to Yancy Brothers Landfill

Equipment Block Time contract for Rebuilding Compactor-836K. Bid 23-

114 / Requested by Engineering

Funds are available in

(\$885,563.05) 541044210-54.22510 - Solid Waste Funds

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Item 5.

REVIEWED AND HM/SR **APPROVED BY:**





Estimate No:107464 - 2

AUGUSTA, GEORGIA 530 GREENE ST PURCHASING DEPT ROOM 105 AUGUSTA 30911-4406

ESTIMATE NO.	DATE	CONTACT
107464	2/6/2022	
FAX NO.		EMAIL
MAK	E	SERIAL NO.
AA		0TWZ00712
HOURS	WO NO.	P.O. NO.
7027	0D32101	
1	CC	CR
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SEGMENT: 00

CLEAN MACHINE

Part Number

Description

Qty

Ext Price

8T-MISC

HARDWARE

20

500.00

Total Estimated Parts:

Segment 00 Total:

500.00 3,980.00

SEGMENT: 01

REMOVE & INSTALL RADIATOR & GUARD

Part Number	Description	Qty	Ext Price
2388649	CAT ELC	4	342.80
2388648	CAT ELC	9	157.77
5P7483	M-SEAL STK	1	22.67
3737132	WASHER-HARD	18	187.74
1P4278	CLAMP.	2	4.00
6V3250	SEAL-O-RING	2 2	2.54
5416637	CLIP-LOOP	2	68.78
6032195	HOSE AS.	1	78.18
1P3709	SEAL	1	4.78
3649893	ELBOW ⁻	1	120.81
4868459	HOSE	1	365.05
2087448	CLAMP-T'BOLT	6	59.70
2965807	CLAMP, T BOLT	2 2 4	25.30
7E8630	HOSE	2	240.16
2162211	CLAMP T BOLT	4	39.96
4615747	ELBOW	2	376.94
3718949	CM HOSE BULK	50	73.00
2446626	HOSE	2	43.58
3783651	HOSE AS.	1	72.46
4528551	HOSE AS.	1	68.64
2094580	CLAMP-T'BOLT	4	39.52
3S8665	CLIP	2	14.52
2006345	MOUNT-SWIVEL	1	6.44
2042281	TIE-WRAP	10	20.80
3402752	BAND AS	2	170.16
4784904	HOSE	1	331.03
4784905	HOSE	1	285.12

					_	
2126934	CLAMP-T'BOLT		2		19.18	Item 5.
3B4619	PIN		4		0.84_	nom o.
4H2266	PIN		4		110.88	
3695859	HOSE AS.		1		51.30	
7T8331	MOUNTING		4		163.36	
5126417	HOSE AS.		1		56.34	
5383024	HOSE AS.		1		44.40	
2899139	CLAMP-BAND		4		22.28	
3E6909	CLIP		1		7.56	
4D7388	CLIP		3		25.41	
4D9517	CLIP		2		17.10	
5P9297	CLIP		11		68.97	
5368769	HOSE AS.		1		53.10	
3496239	CM BULK HOSE		63		33.39	
3027411	HOSE (BULK)		67		17.42	
7Y1976	CM HOSE STK		110		24.20	
4J5477	SEAL-O-RING	**	4		4.92	
213-5007	BOLT-HEX HD		18		178.20	
1305300	CLIP		3		49.92	
2094573	CLAMP-T'BOLT		-6,		58.92	
7K1181	STRAP-CABLE	. : : : :	24		11.28	
8T4121	WASHER		33	:	20.46	
			Total Estimated Parts:		4 264 00	
			Segment 01 Total:		4,261.88 6,799.38	
SEGMENT: 02	DISASSEMBLE & ASSEMBLE	DADIATOR & CHARD			.,	
SEGMENT. UZ	DISASSENIBLE & ASSENIBLE	RADIATOR & GUARD				
Boot Month on	December 1			\$\pi^{\infty}		
Part Number	Description		Qty		Ext Price	
3532833	LAMP GP		2		81.56	
3532834	LAMP GP-FLOO		2		81.56	
4E9924	COVER		1		23.44	
4E9925	COVER		1		23.44	
3348049	LAMP GP-SIGN		2		276.74	
1160118	CLIP		2		9.60	
8T4205	WASHER		2		0.70	
8T6411 8Y5743	SCREW LATCH		4		3.80 34.62	
3053155	PAWL		2 2		72.06	
3260610	LATCH AS		2		305.48	
5P4115	WASHER		2		0.90	
1213307	MOUNT AS		4		138.88	
8T4226	WASHER		8		23.36	
3178141	MOUNT		4	•	49.20	
8C0572	WASHER		4		2.12	
3614742	ISOLATOR		4		49.20	
2431277	WASHER-HARD		4		8.52	
5594206	SHROUD AS		2		3,245.32	
5P4116	WASHER		8		4.64	
3126458	TAPE-REFLECT		40		13.60	
4M7470	GROMMET		3		19.95	
8T4159	BUMPER-STOP		4		57.04	
6V5839	WASHER-HARD		2		1.04	
3389239	PAWL		1		57.92	
3401299	LATCH AS		2		950.80	
1313543	LATCH AS BOLT		6		7.08	
1313543 6V7687	LATCH AS BOLT LOCKNUT		6 1		7.08 2.40	
1313543 6V7687 6V7744	LATCH AS BOLT LOCKNUT LOCKNUT		6 1 4		7.08 2.40 6.36	
1313543 6V7687 6V7744 8T4222	LATCH AS BOLT LOCKNUT LOCKNUT WASHER		6 1 4 1		7.08 2.40 6.36 1.37	
1313543 6V7687 6V7744 8T4222 9X2651	LATCH AS BOLT LOCKNUT LOCKNUT WASHER BOLT ROUND		6 1 4 1 12		7.08 2.40 6.36 1.37 24.24	
1313543 6V7687 6V7744 8T4222	LATCH AS BOLT LOCKNUT LOCKNUT WASHER		6 1 4 1		7.08 2.40 6.36 1.37	

AUGUSTA, GEORGIA 107464 - 2 Page 2

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2492519	CLAMP AS.	2	524.91 Item 5
5C9119	WASHER	2 6	174.1 Item 5.
4392467	HOSE AS.	1	144.98
6V9746	SEAL O RING	13	19.37
3739245	HOSE AS.	1	81.14
3739246	HOSE AS.	1	199.99
3739247	HOSE AS.	i	212.54
3739249	HOSE AS.	i	115.34
3739250	HOSE AS.	i	112.15
4392464	HOSE AS.	i	102.54
3751447	HOSE AS.	1	78.00
1P3703	SEAL	2	5.44
2P1293	LOCKNUT	3	54.84
7J9108	SEAL	1	1.41
6V3251	SEAL-O-RING	i	1.49
8C3451	DUST CAP/HYD	1	5.29
5K9090	SEAL-O-RING	2	3.28
7M8485	SEAL	5	10.85
3J7354	SEAL-O-RING	1	1.16
8C3446	VALVE	1	26.60
4392466	HOSE AS.	1	128.33
4591718	VALVE GP-BYP	1	200.43
4P8134	CLIP	1	
1945337	SWIVEL AS.		5.30
3496097	SWITCH AS	3	412.38
6V5048	SEAL-O-RING	1	186.75
		2	8.62
0951671	O-RING	1	4.90
3891088	ELEMENT AS	1	69.09
1P4278	CLAMP	20	40.00
1064572	HOSE	9	70.65
3519047	CM HOSE BULK	320	28.80
5P7648	GROMMET	2	17.12
6D3479	CLIP MOTOR OR BUE	1	6.85
20R8520	MOTOR GP-PLF	1	3,779.82
1984781	WASHER-HARD	2	11.12
3E5169	GUARD FILM INST	1	17.73
1090361		1	5.56
2502298 2537801	LAMP-AMBER	1	10.46
3012979	FILM SWITCH AS-TO	1	18.98
		1 1	68.48
3401113	FILM FILM	· ·	10.74
3401114 3404392	LAMP AS-IND	1 1	10.74
3534515	SWITCH AS-TO	1	86.16
4250507	HARNESS AS	1	63.80
1325789	CLIP	1	464.12
3824475	SWITCH AS-RO	1	7.44
1028802	RECPTACLE KI	2 1	537.08
612431	SEAL	10	5.10
612435	SPACER	10	646.60
2085021	LAMP GP-SIGN		186.40
9X7344	GROMMET	1 2	129.82
3608170	HARNESS AS-R	1	14.24
2213525	GROMMET	· · · · · · · · · · · · · · · · · · ·	803.08
4S1962	CLIP	6	89.28
5P9085	CLIP	6 1	52.56
7X4780	GROMMET	2	4.68
9X7345	GROMMET	1	15.40
9X7345 3P5414	GROMMET	2	6.77
2D0388	GROMMET	1	14.90
3366684	CAMERA GP	1	7.79
2518248	CABLE AS	1	679.36
6V3965	NIPPLE A	1	249.67
0 4 0 300	NII I LL A	ı	26.72

AUGUSTA, GEORGIA 107464 - 2 Page 3

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1P3709	SEAL	1	4.78 Item 5
4J0527	SEAL-O-RING	1	3.81
6V0852	CAP	1	5.29
6V8398	SEAL O RING	1	1.34
5P0765	CM-HOSE STK	25	3.75
8M7066	GASKET	1	3.10
2S3440	CLAMP-HOSE	1	3.16
0R8411	CORE AS	1	3,369.89
1058901	GASKET	2	13.24
9Y9236	BODY AS	1	48.44
6V8400	SEAL-O-RING	1	1.82
6L8617	CAP-EXPANSIO	1	26.07
1214345	SEAL-O-RING	2	2.36
6V8397	SEAL	1	1.31
1046216 6V5064	PLUG SEAL O RING	2	7.46
3B4611	COTTER PIN	1 1	2.14
2139100	ALARM AS-BAC	·	0.12
106-4175	BOLT	1 2	204.36
8T-MISC	HARDWARE	4	14.90
1305300	CLIP	9	100.00
1808424	SEAL-O-RING	5	149.76 6.15
2042281	TIE-WRAP	22	45.76
2048000	MOUNT-TIE WR	13	97.63
2147568	SEAL-O RING	2	10.12
2M9780	SEAL-O-RING	2	3.18
2\$4078	SEAL-O-RING	2 3 3	7.59
2V3726	BUMPER	3	19.59
3J1907	SEAL	6	7.74
4P7581	CLIP	2	10.16
5P7211	M-SEAL STK	- 6	251.88
5P7483	M-SEAL STK	12	272.04
6V3250	SEAL-O-RING	6	7.62
6V6609	SEAL	2	2.82
7K1181	STRAP-CABLE	100	47.00
7X0632	WASHER	8	28.64
8 T 4121	WASHER	118	73.16
9X8256	WASHER	9	3.15
		Total Estimated Parts: Segment 02 Total:	21,717.99
		Segment 02 Total.	27,517.99
SEGMENT: 03	CLEAN, FLUSH, TEST RADIATOR, OIL COOLER&	RE	
Part Number	Description	Qty	Ext Price
	•		
6V9746	SEAL ORING	3	4.47
3D2824 7M8485	SEAL-O-RING	1	2.00
2287092	SEAL SEAL-O-RING	1	2.17
2385081	SEAL-O-RING SEAL-O-RING	1	6.24 13.36
2287093	SEAL-O-RING SEAL-O-RING	2 2	13.54
8T-MISC	HARDWARE	1	25.00
01 111100		•	23.00
		Total Estimated Parts:	66.78
		Segment 03 Total:	3,401.78
SEGMENT: 04	REMV RECONDITION & INSTL CLEAN EMISSIONS	S MODULE	
	The contract of the cont		

Qty

Ext Price

37

Part Number

Description

1W8620	VALVE A	1	219.88 _{Item 5.}
5152591	HOSE	1	641.4(
1W4724	CLAMP	4	16.72
5P1471	CM HOSE		71.38
5688174	CLAMP-BAND		
		1	13.38
2934653	HOSE-HUMP	1	77.85
5P0600	CLAMP HOSE	2	23.54
1550576	MOUNT	8	21.04
3203063	SENSOR GP-PR	1	207.96
3483646	HARNESS AS.	1	24.54
3941204	BRACKET	1	47.89
4250512	HARNESS AS	1	175.59
4458629	HARNESS AS	1	138.81
4522530	HARNESS AS	1	2,141.47
1305300	CLIP	4	
			66.56
3320011	CLIP-LOOP	2	25.42
3388439	CLIP-LOOP	2	44.02
3422134	CLIP-LOOP	2	46.10
3422135	CLIP-LOOP	7	181.51
3422136	CLIP-LOOP	1	15.43
3523966	CLIP-LADDER	1	24.52
3812621	MOUNT-AXIAL	1	7.61
4P7581	CLIP	4	20.32
4P8134	CLIP	3	15.90
6V7359	GROMMET	3	
		3	86.46
6V9028	SEAL	1/2	1.21
8T4192	BOLT	1	1.09
8T4223	WASHER	1	0.94
8W8909	SLEEVE	2	32.04
9N0869	WASHER	4	2.80
1325789	CLIP	1	7.44
2566453	SENSOR GP-TE	1	54.39
20R8220	CONT GP -E	1	1,862.98
2M9780	SEAL-O-RING		3.18
6V8398	SEAL O RING	2 3	4.02
3J1907	SEAL	1	1.29
3710715	HOSE AS	1	
		1	102.90
3778490	HOSE AS	1	71.81
3778493	STRAP AS	1	82.20
3778504	DUCT AS	1	282.88
2658970	INSERT-B	3	101.37
0961357	CLIP	2	11.88
2154011	CLAMP-T'BOLT	1	12.14
1243243	CM SEAL	100	20.00
2705155	CLAMP	2	37.30
3718949	CM HOSE BULK	32	46.72
1243647	SPACER	8	163.52
1438431	BOLT-HEX HD	8	458.00
1303282	PRECLEANER	1	777.72
3710681	TUBE	1	319.65
2338356	CLAMP-T BOLT	•	
		1	19.77
2894013	CLAMP TBOLT	1	50.22
1456669	SCREW-SELF T	6	3.00
2085837	PRESCREEN	1	647.94
3758268	TUBE	1	311.58
2190313	CLAMP-T'BOLT	1	10.46
2190314	CLAMP-T'BOLT	1	10.23
2D0388	GROMMET	2	15.58
6D7128	SEAL O RING	2	2.12
3778520	WASHER-RUBBE	14	29.12
3808250	WASHER-RUBBE	14	46.90
5P7211	M-SEAL STK	1	41.98
8T4226	WASHER	34	99.28
017220	WAOHLIN	34	33.20

			F	
9X8250	CLIP	1	5.03	Item 5.
9X8699	CM SEAL STK	79	25.28	nom o.
3778488	HOSE	1	151.16	
3778503	COVER	1	825.39	
1V6688	GROMMET	1	15.09	
3337828	MOTOR GP-PSF	1		
2K4821	NUT-LOCK	1	564.27	
		1	2.53	
4211795	FAN AS-BLOWE	1	636.88	
8T7547	BOLT	8	4.64	
4609962	SHIELD AS	1	466.33	
3793172	PLENUM-ACL	1	282.79	
3K0360	SEAL-O-RING	1	1.46	
5P4116	WASHER	8	4.64	
1165763	SPRING CLIP	20	65.20	
3331189	ELEMENT	1	73.61	
3496268	COVER AS	1	96.94	
3611255	GASKET-ACL	<u>i</u>	51.48	
4903649	ELEMENT-ACL	i	206.99	
3439010	BELLOWS AS	1		
3460334	CLAMP-BAND	1	1,067.96	
		1	26.51	
2147567	SEAL-O-RING	2	9.44	
2842728	SENSOR GP-PR	1	207.96	
2986488	SENSOR GP	1	207.96	
3319208	VALVE GP-SOL	2 1	553.86	
2287088	SEAL-O-RING	1	4.80	
2967724	COIL AS.	1	182.11	
5746790	RELAY AS-SS	1	111.80	
3576062	SHIELD AS	1	526.56	
3717982	BELLOWS AS	1	1,313.43	
2901993	STRAP-CABLE	30	36.00	
2956244	WIRE AS	1	146.56	
3189355	CLIP-CABLE T	1		
5P5677		1	1.65	
	M-WIRE STK	1	1.41	
8T8729	PIN	6	7.32	
2818812	RECEPTACLE A	1	6.59	
3524756	WIRE AS-HEAT	1	104.52	
3735283	SENSOR GP-TE	1	418.05	
3744768	SENSOR GP-TE	1	418.05	
4882652	SLEEVE	10	30.20	
3803896	HARNESS AS-W	1	92.01	
3688614	HARNESS AS-W	1	721.08	
3709171	BELLOWS AS	1	1,812.25	
3712052	STRAP AS	4	1,942.44	
3457738	PIN-CLEVIS	12	121.32	
3759516	PIN	12	5.64	
8T6703	CLAMP	4	70.44	
3279287	HOSE-AIR	2	109.68	
3296729	GASKET	1	4.41	
1898772	SPACER	1		
7L6326	CLIP	1	25.91	
		!	11.11	
2953099	PLUG-SPARK	1	16.89	
3421490	PLATE-INFO	1	3.57	
3483392	BODY AS	1	1,224.65	
20R8575	HEAD AS-COMB	1	1,909.30	
3483425	GASKET	2	13.90	
2915204	LOCKNUT HEX	6	13.86	
2934967	STUD-TAPERLO	6	83.88	
2K3219	SCREW-DRIVE	2	0.42	
3118193	BOLT-HEX HEA	6	9.18	
4478145	CATALYST AS-	1	6,991.47	
3711871	CLAMP	2	512.02	
20R8032	KIT-FILTER	1	4,307.33	
4182073	GASKET AS	1	4.89	
		,	7.00	

4859752	INJECTOR AS-	1	397.43 _{/tom.5}
7W3556	WASHER	2	2.64 Item 5.
2946118	SENSOR GP-PR	1	207.96
2964285	SCREW-PAN HE	6	8.46
3306719	SENSOR GP-PR	1	207.96
2287100	SEAL-O RING	1	4.78
3653006	ACTUATOR GP-	1	588.68
3203062	SENSOR GP-PR	1	203.70
2287101	SEAL-O-RING	1	5.15
2888580	CLAMP-CRS	16	119.68
3727077	LINE AS HYBR	1	125.63
3727078	LINE AS-HYBR	1	136.68
3727079	LINE AS-HYBR	1	147.86
4288808	CLAMP-HOSE	4	8.12
3519211	CLIP LOOP	1	6.71
2486816	MOUNT	4	134.16
3S2093	TIE	12	3.12
4F-8711	PLUG	1	2.79
582-7235	SHIELD	1	665.02
330-8196	SEAL-O-RING	2	10.30
8T-MISC	HARDWARE	4	100.00
539-0117	SENSOR AS-NO	1	957.43
418-2065	HOSE BULK	71	10.65
565-2488	PLATE	2	149.24
5C-2890	NUT	4	0.80
127-1960	SCREW	4	12.84
2287089	SEAL-O-RING	3	15.03
1246258	CLAMP-HOSE	2	4.40
1246275	CLAMP-HOSE	6	6.36
2042281	TIE-WRAP	50	104.00
2048000	MOUNT-TIE WR	25	187.75
2147568	SEAL-O RING	8	40.48
2385080	SEAL-O-RING	2	11.88
3460335	CLAMP-BAND	5	159.40
4152415	HOSE-AIR	3	34.74
6V9027	SEAL-O-RING	8	8.88
7K1181	STRAP-CABLE	100	47.00
8T-4121	WASHER	110	68.20
8T-4224	WASHER	85	37.40
9X-8256	WASHER	43	15.05
3731872	SHIELD AS	1	474.74
539-0118	SENSOR AS-NO	1	957.43

Total Estimated Parts:	45,363.58
Segment 04 Total:	50.583.58

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SEGMENT: 05 REMV RECONDITION & INSTL DIESEL EXHAUST FLUID TANK

Part Number	Description	Qty	Ext Price
KLF002	KLEEN DEF 2.5 GAL	3	32.97
4250499	HARNESS AS	1	424.67
2042281	TIE-WRAP	12	24.96
2048000	MOUNT-TIE WR	7	52.57
4P7581	CLIP	2	10.16
4P8134	CLIP	2	10.60
1305300	CLIP	2	33.28
5154643	HARNESS AS	1	50.65
1566175	CLIP	2	14.66
4159975	PLATE AS	1	94.04
8T0328	WASHER	2	0.52

			_	
4164609	STRAP AS	2	200.50	Item 5.
4461344	HOSE	1	31.80	nem 5.
4461345	SCREEN	1	48.99	
4461349	SEAL	1	83.90	
4461347	CAP-TANK	1	177.00	
4493392	BREATHER	1	135.97	
2J6540	CLAMP	2	11.00	
9X2133	CM HOSE STK	111	12.21	
2006345	MOUNT-SWIVEL	1	6.44	
3159970	LATCH	i	14.68	
3159971	KEEPER	i	45.96	
5P9915	RIVET	4	7.28	
9U7072	CAP PLUG	1		
2066876	CAP-TUBE		0.09	
3E5239		1	0.21	
	RELAY A	2	70.80	
3966500	CONT GP	1	217.37	
4336972	VALVE GP-SOL	1	185.48	
5605034	CONTROL GP-D	1	863.75	
5245527	HARNESS AS-W	1	1,314.75	
3915262	GASKET	1	12.29	
4846703	SCREW-TRUSS	6	6.66	
5065818	FILTER AS-DE	1	22.71	
584-8135	FILTER-DEF	1	44.29	
20R9603	PUMP GP-DEF	1	1,290.72	
124-6257	CLAMP HOSE	2	4.26	
8T-MISC	HARDWARE	2	50.00	
3K0360	SEAL-O-RING	2	2.92	
7K1181	STRAP-CABLE	78	36.66	
8T4121	WASHER	18	11.16	
9X8256	WASHER	13	4.55	
			1.00	
		Total Estimated Parts:	5,663.48	
		Segment 05 Total:	7,403.48	
		-	,	
SEGMENT: 06	REMOVE & INSTALL ENGINE, TORQUE CONV	ERTER		
Part Number	Description	Qty	Ext Price	
			EXTRICE	
2V2043	LOCKNUT	1	7.44	
0673045	CLAMP	1	5.03	
2287092	SEAL-O-RING	2	12.48	
2176284	CORD AS-HEAT	1	108.75	
1152422	BATTERY	4	956.52	
1182079	ROD	4	204.96	
5C2890	NUT	8	1.60	
5P4115	WASHER	8	3.60	
8T4223	WASHER	1	0.94	
7X0605	WASHER	1	1.16	
3375175	STRAP AS.	1	96.20	
2771873	CLIP-LADDER	1	27.85	
7K1181	STRAP-CABLE	10	4.70	
4S1962	CLIP	1	8.76	
6V0826	GROMMET	1	17.78	
3270282	SEAL-INTEGRA	1	11.63	
3270283	SEAL-INTEGRA	1	11.66	
9X2488	CLAMP	2	23.80	
2006345	MOUNT-SWIVEL	1	6.44	
2042281	TIE-WRAP	10	20.80	
2829866	FITTING CONT	10	45.65	
3427673	HOSE AS	1	81.94	
9W9930	MOUNT ASSY	2	129.44	
6V3823	BOLT	4	6.68	
	DOLI	→	80.0	
583-5104	RECEIVER AS			
583-5104	RECEIVER AS	1	250.91	

2385084	SEAL-O-RING	1	9.5\$ Item 5.
8T4121	WASHER	15	9.30 <i>nem 3.</i>
8T4192	BOLT	2	2.18
602-7858	STRAP AS	1	86.76
8T-4136	BOLT	3	2.22
352-3966	CLIP-LADDER	2	49.04
352-3964	CLIP-LADDER	1	23.87
6G2256	CLAMP	1	23.32
3289944	BOOT- JCT BL	1	3.01
3723030	CABLE AS	1	111.72
3S2093	TIE	5	1.30
7F0560	WASHER	2	3.58
8T4896	WASHER	2	0.90
8X5489	SLEEVE	4	52.88
		Total Father deal Books	0.400.00
		Total Estimated Parts: Segment 06 Total:	2,426.39 13,011.39
		Segment of rotal.	13,011.39
SEGMENT: 07	DISASSEMBLE & ASSEMBLE ENGINE		
Part Number	Description	Qty	Ext Price
5153957			
3767035	CAT DEO 15W40 BULK HOSE AS.	16	256.00
2287092	SEAL-O-RING	1	114.82
	SPACER	2	12.48
9N6108 1852192		4	46.52
5M2894	PANEL AS WASHER	1 10	1,251.69
2516723	ELEMENT AS-J		4.40
3746428	CABLE AS	1 1	153.05
8X5489	SLEEVE	7	159.39
8T4222	WASHER	2	92.54
3064129	STRAP AS.	1	2.74 111.85
4166999	SENSOR GP-PR	1	201.86
2168579	SEAL	1	1.35
6V5063	SEAL O RING	1	1.90
3K0360	SEAL-O-RING	1	1.46
9N3666	VALVE A	2	41.14
1270929	CLAMP	1	47.75
2840671	CLAMP-V-BAND	1	36.56
3J7354	SEAL-O-RING	1	1.16
8C3089	SEAL FACE	1	17.61
1808424	SEAL-O-RING	2	2.46
2147568	SEAL-O RING	1	5.06
4331422	HOSE AS	1	187.30
8F8513	CLIP	1	8.55
3748475	BELT	1	55.70
7X0578	WASHER	8	9.44
9X6772	STRAP	6	7.86
3201291	COMRPESSOR G	1	972.12
8T4224	WASHER	3	1.32
6D4246	CLIP	1	6.16
9M2904	CLAMP	1	4.21
1337442	CM HOSE	106	20.14
3341073	CLAMP-WORM D	1	0.74
2S4078	SEAL-O-RING	2	5.06
6V8400	SEAL-O-RING	1	1.82
3399660	ELBOW-90	1	97.88
8T4896	WASHER	2	0.90
2164983	CLAMP-T'BOLT	2	19.26
1H8720	SEAL-O-RING	2	7.92
2681565	FLBOW	1	16 35

1

16.35

60.11

42

2681565

2738710

ELBOW

ATOMIZER AS

20R1312	MOTOR G ELEC	1	892.1
5P9297	CLIP	4	25.0 Item 5.
3S2093	TIE	6	1.56
2287089	SEAL-O-RING	2	10.02
9Y6089	GASKET	1	5.28
20R-0053	ALTERNATOR G	1	885.73
456-8513	HOSE BK	46	26.22
2287093	SEAL-O-RING	5	33.85
2385084	SEAL-O-RING	7	67.13
4P8134	CLIP	4	21.20
6D7128	SEAL O RING	3	3.18
6N8744		5	
	GROMMET		167.55
6V3250	SEAL-O-RING	4	5.08
6V6609	SEAL	5	7.05
8T4121	WASHER	19	11.78
2287094	SEAL-O-RING	3	22.86
2287096	SEAL-O-RING	5	56.50
3J1907	SEAL	1	1.29
8C3446	VALVE		
		1	26.60
8C3445	DUST CAP/ENG	1	5.29
4718500	FILM-FILTER	1	12.07
5000483	ELEMENT-LUBE	1	38.79
3629689	SCREW-BLEED	1	29.39
3929208	PLUNGER-RELI	1	27.26
4N8150	SPRING	1	10.98
2147566	SEAL-O-RING	1	4.53
		•	
574-2750	HOSE AS.	1	161.42
5E-9684	ADAPTER	1	60.03
574-2755	HOSE AS.	1	161.74
		Total Estimated Parts: Segment 07 Total:	6,828.25 9,148.25
SEGMENT: 00	PECONDITION/ PERI III D ENGINE		0,110.20
SEGMENT: 08	RECONDITION/ REBUILD ENGINE		5,116.25
SEGMENT: 08 Part Number	RECONDITION/ REBUILD ENGINE Description	Qty	Ext Price
	Description	Qty	Ext Price
Part Number 3929208	Description PLUNGER-RELI	Qty 1	Ext Price 27.94
Part Number 3929208 4N8150	Description PLUNGER-RELI SPRING	Qty 1 1	Ext Price 27.94 11.21
Part Number 3929208 4N8150 1653925	Description PLUNGER-RELI SPRING BOLT-HEX HEA	Qty 1 1 1	Ext Price 27.94 11.21 2.95
Part Number 3929208 4N8150 1653925 8T9655	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT	Qty 1 1 1 1 8	Ext Price 27.94 11.21 2.95 22.56
Part Number 3929208 4N8150 1653925 8T9655 20R1834	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP	Qty 1 1 1 8 1	Ext Price 27.94 11.21 2.95 22.56 1,872.14
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD	Qty 1 1 1 8 1	Ext Price 27.94 11.21 2.95 22.56 1,872.14 45.84
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813 0314155	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD NUT-HEX LOCK	Qty 1 1 1 8 1 12 2	Ext Price 27.94 11.21 2.95 22.56 1,872.14 45.84 1.06
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813 0314155 2133199	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD NUT-HEX LOCK DAMPER AS	Qty 1 1 1 8 1 12 2	Ext Price 27.94 11.21 2.95 22.56 1,872.14 45.84 1.06 1,992.83
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813 0314155 2133199 1B3867	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD NUT-HEX LOCK DAMPER AS BEARING	Qty 1 1 1 8 1 12 2	Ext Price 27.94 11.21 2.95 22.56 1,872.14 45.84 1.06 1,992.83 62.12
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813 0314155 2133199 1B3867 1H8647	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD NUT-HEX LOCK DAMPER AS BEARING RING	Qty 1 1 1 8 1 12 2	Ext Price 27.94 11.21 2.95 22.56 1,872.14 45.84 1.06 1,992.83
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813 0314155 2133199 1B3867	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD NUT-HEX LOCK DAMPER AS BEARING	Qty 1 1 1 8 1 12 2 1	Ext Price 27.94 11.21 2.95 22.56 1,872.14 45.84 1.06 1,992.83 62.12
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813 0314155 2133199 1B3867 1H8647	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD NUT-HEX LOCK DAMPER AS BEARING RING	Qty 1 1 1 8 1 12 2 1	27.94 11.21 2.95 22.56 1,872.14 45.84 1.06 1,992.83 62.12 1.64 12.62
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813 0314155 2133199 1B3867 1H8647 3407220 5S0385	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD NUT-HEX LOCK DAMPER AS BEARING RING RING-WAVE PLUG	Qty 1 1 1 8 1 12 2 1 2 1 1	27.94 11.21 2.95 22.56 1,872.14 45.84 1.06 1,992.83 62.12 1.64 12.62 10.28
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813 0314155 2133199 1B3867 1H8647 3407220 5S0385 3851450	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD NUT-HEX LOCK DAMPER AS BEARING RING RING-WAVE PLUG CAP AS	Qty 1 1 1 8 1 12 2 1 2 1 1 1	27.94 11.21 2.95 22.56 1,872.14 45.84 1.06 1,992.83 62.12 1.64 12.62 10.28 44.68
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813 0314155 2133199 1B3867 1H8647 3407220 5S0385 3851450 4675344	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD NUT-HEX LOCK DAMPER AS BEARING RING RING RING-WAVE PLUG CAP AS MOUNT	Qty 1 1 1 8 1 12 2 1 1 2 1 1 1 1 1	27.94 11.21 2.95 22.56 1,872.14 45.84 1.06 1,992.83 62.12 1.64 12.62 10.28 44.68 23.40
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813 0314155 2133199 1B3867 1H8647 3407220 5S0385 3851450 4675344 3628205	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD NUT-HEX LOCK DAMPER AS BEARING RING RING-WAVE PLUG CAP AS MOUNT SCREW BLEED	Qty 1 1 1 8 1 12 2 1 1 2 1 1 1 1 1 1 1	27.94 11.21 2.95 22.56 1,872.14 45.84 1.06 1,992.83 62.12 1.64 12.62 10.28 44.68 23.40 45.55
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813 0314155 2133199 1B3867 1H8647 3407220 5S0385 3851450 4675344 3628205 2147567	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD NUT-HEX LOCK DAMPER AS BEARING RING RING-WAVE PLUG CAP AS MOUNT SCREW BLEED SEAL-O-RING	Qty 1 1 1 8 1 12 2 1 1 2 1 1 1 1 1 1 1 1 1	27.94 11.21 2.95 22.56 1,872.14 45.84 1.06 1,992.83 62.12 1.64 12.62 10.28 44.68 23.40 45.55 4.83
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813 0314155 2133199 1B3867 1H8647 3407220 5S0385 3851450 4675344 3628205 2147567 5000480	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD NUT-HEX LOCK DAMPER AS BEARING RING RING RING-WAVE PLUG CAP AS MOUNT SCREW BLEED SEAL-O-RING ELEMENT-FUEL	Qty 1 1 1 8 1 12 2 1 1 2 1 1 1 1 1 1 1 1	27.94 11.21 2.95 22.56 1,872.14 45.84 1.06 1,992.83 62.12 1.64 12.62 10.28 44.68 23.40 45.55 4.83 49.60
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813 0314155 2133199 1B3867 1H8647 3407220 5S0385 3851450 4675344 3628205 2147567 5000480 6V3965	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD NUT-HEX LOCK DAMPER AS BEARING RING RING-WAVE PLUG CAP AS MOUNT SCREW BLEED SEAL-O-RING ELEMENT-FUEL NIPPLE A	Qty 1 1 1 8 1 12 2 1 1 2 1 1 1 1 1 1 2 1 1	27.94 11.21 2.95 22.56 1,872.14 45.84 1.06 1,992.83 62.12 1.64 12.62 10.28 44.68 23.40 45.55 4.83 49.60 27.25
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813 0314155 2133199 1B3867 1H8647 3407220 5S0385 3851450 4675344 3628205 2147567 5000480 6V3965 6V0852	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD NUT-HEX LOCK DAMPER AS BEARING RING RING RING-WAVE PLUG CAP AS MOUNT SCREW BLEED SEAL-O-RING ELEMENT-FUEL NIPPLE A CAP	Qty 1 1 1 8 1 12 2 1 1 1 1 1 1 1 1 1 1 1 1	27.94 11.21 2.95 22.56 1,872.14 45.84 1.06 1,992.83 62.12 1.64 12.62 10.28 44.68 23.40 45.55 4.83 49.60 27.25 5.40
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813 0314155 2133199 1B3867 1H8647 3407220 5S0385 3851450 4675344 3628205 2147567 5000480 6V3965 6V0852 3203060	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD NUT-HEX LOCK DAMPER AS BEARING RING RING-WAVE PLUG CAP AS MOUNT SCREW BLEED SEAL-O-RING ELEMENT-FUEL NIPPLE A CAP SENSOR GP	Qty 1 1 1 8 1 12 2 1 1 2 1 1 1 1 1 1 2 1 1	27.94 11.21 2.95 22.56 1,872.14 45.84 1.06 1,992.83 62.12 1.64 12.62 10.28 44.68 23.40 45.55 4.83 49.60 27.25 5.40 215.30
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813 0314155 2133199 1B3867 1H8647 3407220 5S0385 3851450 4675344 3628205 2147567 5000480 6V3965 6V0852 3203060 4367074	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD NUT-HEX LOCK DAMPER AS BEARING RING RING-WAVE PLUG CAP AS MOUNT SCREW BLEED SEAL-O-RING ELEMENT-FUEL NIPPLE A CAP SENSOR GP BASE AS-PUMP	Qty 1 1 1 8 1 12 2 1 1 1 1 1 1 1 1 1 1 1 1	27.94 11.21 2.95 22.56 1,872.14 45.84 1.06 1,992.83 62.12 1.64 12.62 10.28 44.68 23.40 45.55 4.83 49.60 27.25 5.40
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813 0314155 2133199 1B3867 1H8647 3407220 5S0385 3851450 4675344 3628205 2147567 5000480 6V3965 6V0852 3203060	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD NUT-HEX LOCK DAMPER AS BEARING RING RING-WAVE PLUG CAP AS MOUNT SCREW BLEED SEAL-O-RING ELEMENT-FUEL NIPPLE A CAP SENSOR GP	Qty 1 1 1 1 8 1 12 2 1 1 2 1 1 1 1 1 1 1 1	27.94 11.21 2.95 22.56 1,872.14 45.84 1.06 1,992.83 62.12 1.64 12.62 10.28 44.68 23.40 45.55 4.83 49.60 27.25 5.40 215.30
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813 0314155 2133199 1B3867 1H8647 3407220 5S0385 3851450 4675344 3628205 2147567 5000480 6V3965 6V0852 3203060 4367074	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD NUT-HEX LOCK DAMPER AS BEARING RING RING-WAVE PLUG CAP AS MOUNT SCREW BLEED SEAL-O-RING ELEMENT-FUEL NIPPLE A CAP SENSOR GP BASE AS-PUMP	Qty 1 1 1 1 8 1 12 2 1 1 1 1 1 1 1 1 1 1 1	27.94 11.21 2.95 22.56 1,872.14 45.84 1.06 1,992.83 62.12 1.64 12.62 10.28 44.68 23.40 45.55 4.83 49.60 27.25 5.40 215.30 1,040.56
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813 0314155 2133199 1B3867 1H8647 3407220 5S0385 3851450 4675344 3628205 2147567 5000480 6V3965 6V0852 3203060 4367074 4367077	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD NUT-HEX LOCK DAMPER AS BEARING RING RING-WAVE PLUG CAP AS MOUNT SCREW BLEED SEAL-O-RING ELEMENT-FUEL NIPPLE A CAP SENSOR GP BASE AS-PUMP ELEMENT FUEL	Qty 1 1 1 1 8 1 12 2 1 1 1 1 1 1 1 1 1 1 1	27.94 11.21 2.95 22.56 1,872.14 45.84 1.06 1,992.83 62.12 1.64 12.62 10.28 44.68 23.40 45.55 4.83 49.60 27.25 5.40 215.30 1,040.56 45.59 6.36
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813 0314155 2133199 1B3867 1H8647 3407220 5S0385 3851450 4675344 3628205 2147567 5000480 6V3965 6V0852 3203060 4367074 4367077 2287092 9M0164	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD NUT-HEX LOCK DAMPER AS BEARING RING RING-WAVE PLUG CAP AS MOUNT SCREW BLEED SEAL-O-RING ELEMENT-FUEL NIPPLE A CAP SENSOR GP BASE AS-PUMP ELEMENT FUEL SEAL-O-RING CLAMP	Qty 1 1 1 1 8 1 12 2 1 1 1 1 1 1 1 1 1 1 1	27.94 11.21 2.95 22.56 1,872.14 45.84 1.06 1,992.83 62.12 1.64 12.62 10.28 44.68 23.40 45.55 4.83 49.60 27.25 5.40 215.30 1,040.56 45.59 6.36 5.24
Part Number 3929208 4N8150 1653925 8T9655 20R1834 2971813 0314155 2133199 1B3867 1H8647 3407220 5S0385 3851450 4675344 3628205 2147567 5000480 6V3965 6V0852 3203060 4367074 4367077 2287092	Description PLUNGER-RELI SPRING BOLT-HEX HEA MOUNT CONTROL GP SCREW-HEAD NUT-HEX LOCK DAMPER AS BEARING RING RING RING-WAVE PLUG CAP AS MOUNT SCREW BLEED SEAL-O-RING ELEMENT-FUEL NIPPLE A CAP SENSOR GP BASE AS-PUMP ELEMENT FUEL SEAL-O-RING	Qty 1 1 1 1 8 1 12 2 1 1 1 1 1 1 1 1 1 1 1	Ext Price 27.94 11.21 2.95 22.56 1,872.14 45.84 1.06 1,992.83 62.12 1.64 12.62 10.28 44.68 23.40 45.55 4.83 49.60 27.25 5.40 215.30 1,040.56 45.59 6.36

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5L4504	CLIP	1	17.78	Item 5.
3773151	GAUGE AS-O L	1	83.6 (
3537957	GROMMET	1	12.74	
5P4255	BOLT	8	4.96	
3346832	STUD-BRAKE	2	13.72	
0S1595	CAP SCREW	4	4.32	
5P8245	WASHER HARD	4	3.28	
0S1594	BOLT	8	4.16	
1090072	SEAL O RING	1	8.59	
1090078	SEAL O RING	1	7.71	
2K4973	NUT-LOCK	2		
5J4715			1.42	
	WASHER LINE AS-HYBR	1	1.35	
4204543		1	182.68	
4204544	LINE AS-HYBR	1	144.35	
5M5687	CLAMP	2	15.70	
1W5455	CLAMP	1	64.85	
3307736	HOSE AS.	1	58.91	
3307738	HOSE AS-FUEL	1	63.62	
4525746	HOSE AS-FUEL	1	116.09	
3307740	HOSE AS-FUEL	1	72.37	
2385081	SEAL-O-RING	4	27.20	
2385080	SEAL-O-RING	3	18.12	
4525859	GROMMET	1	20.16	
2147568	SEAL-O RING	5	25.80	
3537953	GROMMET	2	20.10	
3270377	VALVE-CHECK	1	53.52	
3316882	REGULATOR GP	î	70.12	
2901993	STRAP-CABLE	6	7.26	
3177012	CLAMP-SPR BA	2	1.90	
3374178	CM HOSE BULK	20	3.80	
3304374	SLEEVE	17	11.90	
3829022	LINE AS-HYBR	1	63.56	
5D6523	CLIP	1	6.32	
4916358	LINE AS-HYBR	1	105.12	
2918145	SEAL-O-RING-	1	2.11	
6V5063	SEAL O RING	2	3.86	
0R5513	CORE AS-OIL	1		
6V9027	SEAL-O-RING		1,615.32	
2485513		1	1.13	
	REGULATOR-TE STUD TAPER	2	125.28	
1061792		12	184.80	
3249290	BELLOWS AS	1	195.87	
2N2766	LOCK NUT	12	89.04	
3298797	TENSIONER-BE	1	226.61	
1018917	STUD	1	9.29	
4N4169	STUD	2	13.76	
1325789	CLIP	1	7.58	
3535065	GASKET-OIL P	2	186.84	
3749900	PANEL ASSO	1	562.28	
6V6609	SEAL	2	2.92	
1907615	RECEPTACLE	1	20.45	
2312300	RECEPTACLE A	1	18.18	
2397353	RECEPTACLE A	1	4.07	
20R1528	PUMP GP F	1	252.58	
20R1528	CORE	1	94.45	
20R3876	TURBO GP-BAS	1	3,623.19	
5490534	VALVE GP-AIR	1	181.11	
2061346	STRAP-CABLE	10	11.40	
2042281	TIE-WRAP	10	21.30	
5685663	HARNESS AS-E	1	2,054.28	
2848381	SWITCH AS-TO	1	65.59	
3053684	PLATE-FUEL P	1	5.57	
3352252	MOUNT-FIR TR	1	2.02	
3654312	HARNESS AS-W	1	67.42	

3669693	HARNESS AS-W	1	176.5 Item 5.
3094314	CLIP-LADDER	1	26.1
3523964	CLIP-LADDER	1	24.35
4P8134	CLIP	1	5.42
8T0328	WASHER	2	0.52
5145319	HARNESS AS-E	1	378.08
1665396	SCREW-WASHER	8	8.88
3594892	RING-RETAINI	1	2.17
3594893	RING-RETAINI	1	3.39
9L8925	BOLT	12	3.24
4493065	COOLER AS-NR	1	3,042.58
5103002	CLAMP AS	4	171.68
3178766 4N0684	BEARING - MA PIN	7	506.66
2531752	PLATE-THRUST	1	6.41
2M6471	PLUG-CORE	2 2	98.76 19.22
5H1504	WASHER	26	44.46
1241855	BOLT 12PT	16	352.96
1241854	BOLT 12PT	10	242.80
20R2647	HEAD GP CYL	10	5,274.45
4504141	BOLT-HEX HEA	2	2.16
613624	PLATE THRUST	2	55.14
1025861	PLATE THRUST	1	62.82
5763697	BOLT-HEX HEA	3	12.93
1129217	PLATE THRUST	1	42.60
1261756	LOCKING BOLT	10	4.50
1B8705	KEY	2	1.70
2J3118	BOLT-SELF-	5	3.85
20R3323	ARM A UI ROC	6	1,452.12
20R3317	ARM A V ROCK	12	1,920.84
1515925	BOLT-OIL JET	6	12.78
2613450	BEARING-ROD	6	273.66
20R0928	CYL PACK AS	6	5,296.44
0R9449	PUMP GP OIL	1	846.55
20R3454	INJ GP FUEL	6	5,247.60
20R2814	PUMP G WTR	1	980.70
2935535	SENSOR GP-PR	1	246.52
4743231	SENSOR AS-TE	1	98.91
3851173	SENSOR GP-PR	1	205.91
2799828	SENSOR GP	1	163.39
2799829 3203063	SENSOR GP-SP SENSOR GP-PR	1	190.37
2287100	SEAL-O RING	1	215.30
3257472	SENSOR GP-PR	1	4.89 215.30
3203061	SENSOR GP	1	215.30
3377323	VALVE GP-EXH	1	2,218.74
4718498	FILM-FILTER	<u>i</u>	10.57
4198867	PLATE-CAT (P	i	21.80
3500684	FILM	i	9.90
2939659	FILM-WARN UN	2	19.10
2958454	FILM-WARN HA	2	19.12
5425376	KIT GASKET	1	570.87
4919629	KIT GASKET	1	455.21
4220925	KIT GASKET	1	178.79
5927297	GASKET KT	1	1,509.08
4950267	KIT GASKET	1	259.89
4N2514	GEAR	1	470.60
1028803	RECPTACLE KI	1	6.43
6K0806	STRAP-CABLE	6	2.70
2147566	SEAL-O-RING	1	4.63
2M-4779	STUD-TAPER	1	7.35
571-3086 8T-MISC	HARNESS AS-W HARDWARE	1 10	44.09
OT-IVIIOC	HANDWAIL	10	0.00

2431159	FASTENER	18	176.22 Item 5.
3S2093	TIE	60	
165-3929	BOLT-HEX HEA	5	4.10
1781781	CLIP	2	39.10
2566453	SENSOR GP-TE	3	168.99
2771873	CLIP-LADDER	2	56.78
3147599	CLAMP-BAND	4	31.80
3169351	MOUNT-FIR TR	8	7.76
3287546	HOSE	2	72.84
3E4352	WASHER	3	1.59
4589944	FILM-FILTER	4	42.28
4P7581	CLIP	4	20.72
5M2894	WASHER	150	67.50
5P0537	WASHER	4	1.40
6V5839	WASHER-HARD	2	1.06
7K1181	STRAP-CABLE	30	14.70
8S9191	BOLT	8	14.72
8T4224	WASHER	7	3.15
8T4896	WASHER	3	1.41
8T8737	PLUG	29	13.92
9M1974	WASHER	40	14.80
9N0869	WASHER	14	9.94
9N5085	CLAMP	4	223.00
9X2038	WASHER	6	2.94
572-7174	TUBE AS-COOL		255.92
372-7174	TOBE AS-COOL	ı	255.92
		Total Estimated Parts:	51,905.99
		Segment 08 Total:	65,970.99
SEGMENT: 09	REPLACE WITH NEW HYDRAULIC FAN PUMP		
Part Number	Description	Qty	Ext Price
3803474	HOSE AS	1	216.52
4J0527	SEAL-O-RING	1	3.82
8T4984	CLAMP	2	35.22
6V3965	NIPPLE A	1	26.72
2147568	SEAL-O RING	1	5.06
2M9780	SEAL-O-RING		1.59
6V9746	SEAL O RING	4	5.96
3J1907	SEAL	1	1.29
3D2824	SEAL-O-RING	1	2.00
1017404	HEX BOLT	4	18.64
1P3703	SEAL	1	2.72
6V0852	CAP	1	5.29
3333805	PUMP-GP-PS-7		4,473.51
8T4944 2711919	BOLT	2	19.18
1357935	WASHER	2	2.68
	SEAL-O-RING	1	7.91
		Total Estimated Parts: Segment 09 Total:	4,828.11 5,263.11
SEGMENT: 10	REPLACE HYDRAULIC HOSES/LINES		0,200.11
Part Number	Description	Qty	Ext Price
5288954 5288947	HOSE AS. HOSE AS.	1	185.41
5P8112	GROMMET	1	154.98 29.97
3785850	HOSE AS.	1	94.93

	,		
4322694	HOSE AS.	1	131.10 Item 5.
4322695	HOSE AS.	1	126.76
4322696	HOSE AS.	1	79.61
2006345	MOUNT-SWIVEL	3	19.32
2042281	TIE-WRAP	10	20.80
2S7010	CLIP	1	26.87
3107300	CLIP-LOOP DU CLIP	1	8.30
6D1641 6V1249	GROMMET	1 2	8.27 44.52
6V8398	SEAL O RING	4	5.36
7J9108	SEAL	1	1.41
8M2770	CLIP	6	32.34
8M2773	CLIP	1	8.35
8T4121	WASHER	25	15.50
3785852	HOSE AS.	1	135.94
3785853	HOSE AS.	1	132.98
3785854	HOSE AS.	1	114.54
3785864	HOSE AS.	1	89.87
3785865	HOSE AS.	1	152.78
3785866	HOSE AS.	1	117.19
6V8397	SEAL	3	3.93
1P3706	SEAL ORING	1	3.98
4J0522 5P9297	SEAL-O-RING CLIP	1	2.75
6V9746	SEAL O RING	2 7	12.54
8T5360	WASHER	4	10.43 2.32
9X8250	CLIP	1	5.03
37.0200	CEII	1	5.05
		Total Estimated Parts:	1,778.08
		Segment 10 Total:	4,098.08
OF OHENE 44	DELIVEDE CONDITION A MICT. EASI DE VEDOUS		
SEGMENT: 11	REMV RECONDITION & INSTL FAN REVERSING	VALVE	
SEGMENT: 11		VALVE	
SEGMENT: 11 Part Number	REMV RECONDITION & INSTL FAN REVERSING Description	VALVE Qty	Ext Price
			Ext Price 53.67
Part Number 3746447 1305300	Description HARNESS AS CLIP	Qty 1 2	
Part Number 3746447 1305300 2042281	Description HARNESS AS CLIP TIE-WRAP	Qty 1	53.67
Part Number 3746447 1305300 2042281 2048000	Description HARNESS AS CLIP TIE-WRAP MOUNT-TIE WR	Qty 1 2	53.67 33.28 10.40 7.51
Part Number 3746447 1305300 2042281 2048000 3812621	Description HARNESS AS CLIP TIE-WRAP MOUNT-TIE WR MOUNT-AXIAL	Qty 1 2 5 1	53.67 33.28 10.40 7.51 7.61
Part Number 3746447 1305300 2042281 2048000 3812621 5K9090	Description HARNESS AS CLIP TIE-WRAP MOUNT-TIE WR MOUNT-AXIAL SEAL-O-RING	Qty 1 2 5 1 1	53.67 33.28 10.40 7.51 7.61 1.64
Part Number 3746447 1305300 2042281 2048000 3812621 5K9090 7J9108	Description HARNESS AS CLIP TIE-WRAP MOUNT-TIE WR MOUNT-AXIAL SEAL-O-RING SEAL	Qty 1 2 5 1 1 1 5	53.67 33.28 10.40 7.51 7.61 1.64 7.05
Part Number 3746447 1305300 2042281 2048000 3812621 5K9090 7J9108 1111460	Description HARNESS AS CLIP TIE-WRAP MOUNT-TIE WR MOUNT-AXIAL SEAL-O-RING SEAL VALVE CHECK	Qty 1 2 5 1 1 1 5	53.67 33.28 10.40 7.51 7.61 1.64 7.05 217.63
Part Number 3746447 1305300 2042281 2048000 3812621 5K9090 7J9108 1111460 7M8485	Description HARNESS AS CLIP TIE-WRAP MOUNT-TIE WR MOUNT-AXIAL SEAL-O-RING SEAL VALVE CHECK SEAL	Qty 1 2 5 1 1 1 1 3	53.67 33.28 10.40 7.51 7.61 1.64 7.05 217.63 6.51
Part Number 3746447 1305300 2042281 2048000 3812621 5K9090 7J9108 1111460 7M8485 3799629	Description HARNESS AS CLIP TIE-WRAP MOUNT-TIE WR MOUNT-AXIAL SEAL-O-RING SEAL VALVE CHECK SEAL VALVE GP-D R	Qty 1 2 5 1 1 1 1 3 2	53.67 33.28 10.40 7.51 7.61 1.64 7.05 217.63 6.51 477.70
Part Number 3746447 1305300 2042281 2048000 3812621 5K9090 7J9108 1111460 7M8485 3799629 3770034	Description HARNESS AS CLIP TIE-WRAP MOUNT-TIE WR MOUNT-AXIAL SEAL-O-RING SEAL VALVE CHECK SEAL VALVE GP-D R VALVE GP-SOL	Qty 1 2 5 1 1 1 1 3 2 1	53.67 33.28 10.40 7.51 7.61 1.64 7.05 217.63 6.51 477.70
Part Number 3746447 1305300 2042281 2048000 3812621 5K9090 7J9108 1111460 7M8485 3799629	Description HARNESS AS CLIP TIE-WRAP MOUNT-TIE WR MOUNT-AXIAL SEAL-O-RING SEAL VALVE CHECK SEAL VALVE GP-D R VALVE GP-SOL VALVE GP-SOL	Qty 1 2 5 1 1 1 5 1 3 2 1	53.67 33.28 10.40 7.51 7.61 1.64 7.05 217.63 6.51 477.70 305.74 202.77
Part Number 3746447 1305300 2042281 2048000 3812621 5K9090 7J9108 1111460 7M8485 3799629 3770034 3149274	Description HARNESS AS CLIP TIE-WRAP MOUNT-TIE WR MOUNT-AXIAL SEAL-O-RING SEAL VALVE CHECK SEAL VALVE GP-D R VALVE GP-SOL	Qty 1 2 5 1 1 1 3 2 1 1 6	53.67 33.28 10.40 7.51 7.61 1.64 7.05 217.63 6.51 477.70
Part Number 3746447 1305300 2042281 2048000 3812621 5K9090 7J9108 1111460 7M8485 3799629 3770034 3149274 4J7533	Description HARNESS AS CLIP TIE-WRAP MOUNT-TIE WR MOUNT-AXIAL SEAL-O-RING SEAL VALVE CHECK SEAL VALVE GP-D R VALVE GP-SOL VALVE GP-SOL SEAL-O-RING SEAL-O-RING SEAL-O-RING KIT-SEAL	Qty 1 2 5 1 1 1 3 2 1 1 6 3 2	53.67 33.28 10.40 7.51 7.61 1.64 7.05 217.63 6.51 477.70 305.74 202.77 6.30
Part Number 3746447 1305300 2042281 2048000 3812621 5K9090 7J9108 1111460 7M8485 3799629 3770034 3149274 4J7533 2M9780 4214297 3799630	Description HARNESS AS CLIP TIE-WRAP MOUNT-TIE WR MOUNT-AXIAL SEAL-O-RING SEAL VALVE CHECK SEAL VALVE GP-D R VALVE GP-SOL VALVE GP-SOL SEAL-O-RING SEAL-O-RING SEAL-O-RING KIT-SEAL KIT-SEAL	Qty 1 2 5 1 1 1 5 1 3 2 1 1 6 3 2 1	53.67 33.28 10.40 7.51 7.61 1.64 7.05 217.63 6.51 477.70 305.74 202.77 6.30 4.77 58.76 125.65
Part Number 3746447 1305300 2042281 2048000 3812621 5K9090 7J9108 1111460 7M8485 3799629 3770034 3149274 4J7533 2M9780 4214297 3799630 3J1907	Description HARNESS AS CLIP TIE-WRAP MOUNT-TIE WR MOUNT-AXIAL SEAL-O-RING SEAL VALVE CHECK SEAL VALVE GP-D R VALVE GP-SOL VALVE GP-SOL SEAL-O-RING SEAL-O-RING SEAL-O-RING KIT-SEAL KIT-SEAL SEAL	Qty 1 2 5 1 1 1 5 1 3 2 1 1 6 3 2 1 3	53.67 33.28 10.40 7.51 7.61 1.64 7.05 217.63 6.51 477.70 305.74 202.77 6.30 4.77 58.76 125.65 3.87
Part Number 3746447 1305300 2042281 2048000 3812621 5K9090 7J9108 1111460 7M8485 3799629 3770034 3149274 4J7533 2M9780 4214297 3799630 3J1907 3K0360	Description HARNESS AS CLIP TIE-WRAP MOUNT-TIE WR MOUNT-AXIAL SEAL-O-RING SEAL VALVE CHECK SEAL VALVE GP-D R VALVE GP-SOL VALVE GP-SOL SEAL-O-RING SEAL-O-RING SEAL-O-RING KIT-SEAL KIT-SEAL SEAL-O-RING	Qty 1 2 5 1 1 1 5 1 3 2 1 1 6 3 2 1 3	53.67 33.28 10.40 7.51 7.61 1.64 7.05 217.63 6.51 477.70 305.74 202.77 6.30 4.77 58.76 125.65 3.87 2.92
Part Number 3746447 1305300 2042281 2048000 3812621 5K9090 7J9108 1111460 7M8485 3799629 3770034 3149274 4J7533 2M9780 4214297 3799630 3J1907 3K0360 6V8398	Description HARNESS AS CLIP TIE-WRAP MOUNT-TIE WR MOUNT-AXIAL SEAL-O-RING SEAL VALVE CHECK SEAL VALVE GP-D R VALVE GP-SOL VALVE GP-SOL SEAL-O-RING SEAL-O-RING SEAL-O-RING SEAL-O-RING KIT-SEAL KIT-SEAL SEAL SEAL SEALO-RING	Qty 1 2 5 1 1 1 5 1 3 2 1 1 6 3 2 1 3 2 3	53.67 33.28 10.40 7.51 7.61 1.64 7.05 217.63 6.51 477.70 305.74 202.77 6.30 4.77 58.76 125.65 3.87 2.92 4.02
Part Number 3746447 1305300 2042281 2048000 3812621 5K9090 7J9108 1111460 7M8485 3799629 3770034 3149274 4J7533 2M9780 4214297 3799630 3J1907 3K0360	Description HARNESS AS CLIP TIE-WRAP MOUNT-TIE WR MOUNT-AXIAL SEAL-O-RING SEAL VALVE CHECK SEAL VALVE GP-D R VALVE GP-SOL VALVE GP-SOL SEAL-O-RING SEAL-O-RING SEAL-O-RING KIT-SEAL KIT-SEAL SEAL-O-RING	Qty 1 2 5 1 1 1 5 1 3 2 1 1 6 3 2 1 3	53.67 33.28 10.40 7.51 7.61 1.64 7.05 217.63 6.51 477.70 305.74 202.77 6.30 4.77 58.76 125.65 3.87 2.92
Part Number 3746447 1305300 2042281 2048000 3812621 5K9090 7J9108 1111460 7M8485 3799629 3770034 3149274 4J7533 2M9780 4214297 3799630 3J1907 3K0360 6V8398	Description HARNESS AS CLIP TIE-WRAP MOUNT-TIE WR MOUNT-AXIAL SEAL-O-RING SEAL VALVE CHECK SEAL VALVE GP-D R VALVE GP-SOL VALVE GP-SOL SEAL-O-RING SEAL-O-RING SEAL-O-RING SEAL-O-RING KIT-SEAL KIT-SEAL SEAL SEAL SEALO-RING	Qty 1 2 5 1 1 1 1 5 1 3 2 1 1 6 3 2 1 3 2 1 4 Total Estimated Parts:	53.67 33.28 10.40 7.51 7.61 1.64 7.05 217.63 6.51 477.70 305.74 202.77 6.30 4.77 58.76 125.65 3.87 2.92 4.02 5.96
Part Number 3746447 1305300 2042281 2048000 3812621 5K9090 7J9108 1111460 7M8485 3799629 3770034 3149274 4J7533 2M9780 4214297 3799630 3J1907 3K0360 6V8398	Description HARNESS AS CLIP TIE-WRAP MOUNT-TIE WR MOUNT-AXIAL SEAL-O-RING SEAL VALVE CHECK SEAL VALVE GP-D R VALVE GP-SOL VALVE GP-SOL SEAL-O-RING SEAL-O-RING SEAL-O-RING SEAL-O-RING KIT-SEAL KIT-SEAL SEAL SEAL SEALO-RING	Qty 1 2 5 1 1 1 5 1 3 2 1 1 6 3 2 1 3 2 3 4	53.67 33.28 10.40 7.51 7.61 1.64 7.05 217.63 6.51 477.70 305.74 202.77 6.30 4.77 58.76 125.65 3.87 2.92 4.02 5.96
Part Number 3746447 1305300 2042281 2048000 3812621 5K9090 7J9108 1111460 7M8485 3799629 3770034 3149274 4J7533 2M9780 4214297 3799630 3J1907 3K0360 6V8398	Description HARNESS AS CLIP TIE-WRAP MOUNT-TIE WR MOUNT-AXIAL SEAL-O-RING SEAL VALVE CHECK SEAL VALVE GP-D R VALVE GP-SOL VALVE GP-SOL SEAL-O-RING SEAL-O-RING SEAL-O-RING SEAL-O-RING KIT-SEAL KIT-SEAL SEAL SEAL SEALO-RING	Qty 1 2 5 1 1 1 1 5 1 3 2 1 1 6 3 2 1 3 2 1 4 Total Estimated Parts:	53.67 33.28 10.40 7.51 7.61 1.64 7.05 217.63 6.51 477.70 305.74 202.77 6.30 4.77 58.76 125.65 3.87 2.92 4.02 5.96
Part Number 3746447 1305300 2042281 2048000 3812621 5K9090 7J9108 1111460 7M8485 3799629 3770034 3149274 4J7533 2M9780 4214297 3799630 3J1907 3K0360 6V8398 6V9746 SEGMENT: 12	Description HARNESS AS CLIP TIE-WRAP MOUNT-TIE WR MOUNT-AXIAL SEAL-O-RING SEAL VALVE CHECK SEAL VALVE GP-D R VALVE GP-SOL VALVE GP-SOL SEAL-O-RING SEAL-O-RING KIT-SEAL KIT-SEAL SEAL SEAL O RING SEAL O RING SEAL O RING	Qty 1 2 5 1 1 1 1 5 1 3 2 1 1 6 3 2 1 3 2 1 Segment 11 Total:	53.67 33.28 10.40 7.51 7.61 1.64 7.05 217.63 6.51 477.70 305.74 202.77 6.30 4.77 58.76 125.65 3.87 2.92 4.02 5.96 1,543.76 2,123.76
Part Number 3746447 1305300 2042281 2048000 3812621 5K9090 7J9108 1111460 7M8485 3799629 3770034 3149274 4J7533 2M9780 4214297 3799630 3J1907 3K0360 6V8398 6V9746	Description HARNESS AS CLIP TIE-WRAP MOUNT-TIE WR MOUNT-AXIAL SEAL-O-RING SEAL VALVE CHECK SEAL VALVE GP-D R VALVE GP-SOL VALVE GP-SOL SEAL-O-RING SEAL-O-RING KIT-SEAL KIT-SEAL SEAL SEAL O RING SEAL O RING SEAL O RING	Qty 1 2 5 1 1 1 1 5 1 3 2 1 1 6 3 2 1 3 2 1 4 Total Estimated Parts:	53.67 33.28 10.40 7.51 7.61 1.64 7.05 217.63 6.51 477.70 305.74 202.77 6.30 4.77 58.76 125.65 3.87 2.92 4.02 5.96

4232100	HOSE AS.	1	167.2 Item 5
4920262	HOSE AS.	1	174.5
4232112	HOSE AS.	1	121.72
2385084	SEAL-O-RING	4	38.36
3892659 3650162	HOSE AS CONNECTOR-SP	1	368.90
3652226	HOSE AS	2 1	26.10
3899429	HOSE AS	1	407.23 440.32
3993183	CLAMP	2	61.52
5086175	HOSE	1	31.30
5086176	HOSE	i	33.10
1\$0994	CLIP	4	23.60
1S1015	CLIP	2	17.34
2D0388	GROMMET	2 2	15.58
4D6434	CLIP	1	18.99
5P0537	WASHER	2 2	0.70
5P4295	CLIP	2	18.96
8M2773	CLIP	2	16.70
6V8523	CM HOSE STK	350	31.50
4251511	HOSE AS.	1	67.26
4251512	HOSE AS.	1	75.49
4251516	HOSE AS.	1	66.96
2006345 3S8664	MOUNT-SWIVEL	1	6.44
7K1181	CLIP STRAP-CABLE	5 6	35.95
4339527	HOSE AS.	1	2.82 182.53
5P7703	GROMMET	1	24.93
4339526	HOSE AS.	1	185.56
4339528	HOSE AS.	2	348.40
5458355	HOSE AS.	1	95.14
4S1962	CLIP	16	140.16
7C4354	CLIP	2	14.70
7G3832	GROMMET	2	112.16
9D1829	CLIP	1	19.13
124-6257	CLAMP HOSE	8	17.04
2042281	TIE-WRAP	15	31.20
2287093	SEAL-O-RING	17	115.09
8T4121	WASHER	37	22.94
		Total Estimated Parts:	3,694.31
		Segment 12 Total:	7,174.31
SEGMENT: 13	SEPARATE & CONNECT ENGINE, TORQUE CONV	ERTER	
Part Number	Description	Ohr	Ev4 Deina
	•	Qty	Ext Price
9X8257	WASHER	11	14.41
4H6730	SEAL-O-RING	1	17.28
6Y2090 1T1639	MOUNT AS RING	2 1	806.80
154-1578	BOLT-HEX	11	79.21 39.38
104-1070	BOLTHIEX	11	39.36
		Total Estimated Parts:	957.08
		Segment 13 Total:	1,464.58
SEGMENT: 14	RECONDITION/ REBUILD TORQUE CONVERTER		
Part Number	Description	Qty	Ext Price
2042281 2048000	TIE-WRAP MOUNT-TIE WR	10 3	20.80
2566453	SENSOR GP-TE	3 1	22.53 54.39
3447389	SENSOR GP-PR	1	415.93
311.000	or to or or the	ı	710,30

3608198	HARNESS AS	1	301.72 Item 5.
1325789	CLIP	3	22.31
2385080	SEAL-O-RING	1	5.94
3523964	CLIP-LADDER	1	23.87
4P7429	CLIP	1	7.45
4P7581	CLIP	1	5.08
4S1962	CLIP	1	8.76
6V0826	GROMMET	, <u>1</u>	17.78
7K1181	STRAP-CABLE	20	9.40
8T5360	WASHER	2	1.16
5K9065	RING-RETAINI	1	18.93
6D7889	SEAL	2	27.96
6V0852	CAP	3	15.87
6V7423	BEARING A	1	245.40
8T8737	PLUG CORENAC	5	2.30
9P0217	SCREEN AS	1_	20.74
9X6772 2056051	STRAP SEAL-O-RING	5 2	6.55
2165342	VALVE GP-MDL	1	34.34
1305300	CLIP	1	291.46
1324458	SHIM PACK	2	16.64
1552260	PLUG KIT-CON	1	428.72 5.28
1552270	PLUG KIT-CON PLUG KIT	1	5.20
6V3965	NIPPLE A	1	26.72
3J7354	SEAL-O-RING	1	1.16
1D4327	SEAL-LIP TYP	2	27.52
2385084	SEAL-O-RING	2	19.18
4J0524	SEAL-O-RING SEAL-O-RING	1	3.32
5D5957	SEAL-O-RING	1	25.63
5P4116	WASHER	2	1.16
6V3935	RING	1	4.13
7D1979	SEAL	4	65.16
7L9061	SEAL-O-RING	5	32.50
8H3981	RING-SNAP	1	2.14
8M4443	SEAL O RIN	i	6.06
8T4224	WASHER	6	2.64
9M9936	SEAL	1	11.22
1T0786	BEARING-ROLL	3	427.56
1844271	SPRING-FREEW	13	89.18
1T0795	RING-RETAINI	3	57.90
1T0847	PIN	1	4.77
1T0895	RING-RETAINI	1	11.67
1T0896	RING-RETAINI	1	72.65
1T1356	RING-SEAL	1	57.79
1T1401	RING	1	27.10
1T1410	ROLLER	13	117.00
1T1423	CAM FREEWHEE	1	1,232.87
1T1910	PLATE	2	542.72
3T6246	RING-SEAL	4	150.96
9U9100	RACE	1	581.42
9X4605	SEAL	1	41.36
1324452	GASKET	1	6.35
1324463	SLEEVE	1	221.11
8E2882	GEAR	1	61.40
3098477	BEARING-SPL	1	242.72
3154128	DISC-FRICTIO	2	257.84
2864365	DISC FRICTIO	3	577.89
1337133	RACE-ROLLER	1	106.62
1337134	BEARING-RACE	1	222.46
1T1616	WASHER-SPRIN	1	36.20
2R0239	SEAL O RING	1	8.79
3S1284 6H6043	RING-SEAL RING-RETAINI	1 1	39.57
0110043	MING-INC FAIRI	ı	19.46

6V5839 6V9176 7G0141 8M4989 8S3371 9S4368 4J5477 5P2503 5P2504 1T0807 468-3266 8T-MISC 2147568 3J1907 8J6815 8T4121 5K9090 7M8485 7J9108 1P3706	WASHER-HARD BEARING RING-SEAL SEAL O RING RING-SEAL RING-RETAINI SEAL-O-RING CUP CONE RACE-THRUST VALVE GP HARDWARE SEAL-O RING SEAL PLUG WASHER SEAL-O-RING SEAL SEAL SEAL	36 1 2 1 1 2 4 4 4 4 5 3 17 1 1	18.7 341.0 77.50 11.42 33.96 25.30 4.92 186.76 421.64 215.72 481.05 100.00 20.24 6.45 42.54 10.54 1.64 2.17 1.41 3.98
		Total Estimated Parts: Segment 14 Total:	9,487.54 13,257.54
SEGMENT: 15	REMOVE & INSTALL TRANS& TRANSFER GEARS	Segment 14 Total.	13,237.34
Part Number	Description	Qty	Ext Price
1556213 9W9930 7K4942 4H6112 2350923 2486406 1326277 1391398 1P3705 2042281 5P0597 5P8444 6V8397 8T4121 8T0281 6V3823 541-7168 1305300	CAT TDTO 30WT BULK MOUNT ASSY SCREW-BLEEDE BREATHER HOSE AS. HOSE AS. GAGE-LIQ LEV CLIP SEAL TIE-WRAP CLAMP-HOSE GROMMET SEAL WASHER BOLT BOLT HOSE BK CLIP	22 6 1 1 1 1 1 1 1 5 2 1 2 1 8 4 31 2 Total Estimated Parts: Segment 15 Total:	364.54 388.32 7.12 14.85 61.99 64.45 268.18 11.11 3.58 10.40 12.24 45.82 2.62 0.62 30.96 6.68 49.60 33.28 1,376.36 7,176.36
SEGMENT: 16	RECONDITION/ REBUILD TRANS& TRANSFER GEARS	_	
Part Number 3J7354 5K9090 4J0522 7K4942 5330811 1771483 2368675 1706712 1711391	Description SEAL-O-RING SEAL-O-RING SEAL-O-RING SEAL-O-RING SCREW-BLEEDE SPRING SEAL-LIP TYP DISC FRICTIO RING-BACKUP SEAL-BRAKE	Qty 1 5 1 1 9 1 4 3	1.16 8.20 2.75 7.12 363.96 126.99 967.60 78.51 74.10

2H2665	SEAL	1	5.69 Item 5.
2M0849	WASHER	24	28.32
3K2518	BEARING	1	66.73
3K2556	RING-RETAINI	1	23.83
7K9204	SEAL LIP TYP	3	35.97
8H8257	SEAL-O-RING	1	13.86
1334767	SEAL-0-RING	1	16.20
1P0014 3P3321	RING SEAL RING	1	4.74
6B6863	PIN-SPRING	2 1	161.64
3P4050	SPACER	1	1.23
5M6187	RING	1	3.43
6F0156	RING-SEAL	1	16.41 15.18
6V0836	RING	3	60.72
2825042	DISC-THRUST	16	414.08
8E8304	DISC	18	147.78
8E8316	DISC	8	93.52
8P4617	SEAL	1	57.87
8T1141	RING	2	39.08
9F3788	RING	1	12.97
9M1503	RING-SEAL	i	23.08
9M4355	DAMPER	19	89.11
8M4390	SEAL O RING	4	29.68
1082735	LOCK RING	1	49.47
1082736	LOCK RING	2	105.76
1124511	SPRING	4	5.40
1364839	LOCK	5	16.95
1364841	GASKET	1	45.73
1376224	SPACER	1	76.51
9S1343	PLUG-METAL C	1	5.45
2339748	DISC-FRICTIO	6	739.86
1332904	RING-RETAIN	1	13.77
1N5410	RING	1	22.79
1P9261	RING SEAL	1	45.46
1S9989	PIN	6	108.96
2D8363	SEAL-O-RING	1	19.14
3756965	SPRING	24	269.76
3870101	SPRING	12	242.64
3P2792	SEAL PINC	1	57.04
3P2793 3P2794	SEAL RING SEAL INTERNA	4 4	299.52
3P3743	RING	1	273.16
3736708	SPRING-DISC	3	10.92 167.79
3S2708	PIN-SPRING	13	71.50
5M7925	BEARING A	8	291.52
6S1753	RING	1	7.26
8S9104	RING	2	35.22
9M2095	RING	1	16.81
4S8598	SCREEN-SUCTI	1	15.44
6Y6328	SHIM	Ĩ	154.44
7B3039	SPRING	1	8.67
8J8783	VALVE	1	3.03
8T3298	SEAL	1	4.08
1334292	SEAL	2	130.88
1784640	CONE	2	399.58
1784641	CUP	2	150.06
2669266	RETAINER	2	110.64
3346034	BEARING AS-R	2	967.80
8T5414	STUD	4	32.24
2H3933	SEAL-O-RING	2	11.58
2K4472	O RING	1	6.74
5J1086	SEAL-O-RING	T 4	9.59
5M2057	SEAL-O-RING	1	2.13

5P2587	SEAL O RING	1	19.66 Item 5.
5P8286	SEAL-O RING	1	27.48 <i>nem 5.</i>
5P7818	SEAL	1	28.12
7L2181	SEAL-O-RING	1	9.53
6V6640	SEALANT	4	68.56
3571126	SHIM PACK	2	295.84
8H2768	PLUG	1	9.35
3J0634	SEAL-O-RING	1	7.35
9X7743	SEAL	1	70.02
4F4097	SEAL-O-RING	1	4.45
6D7889	SEAL	6	83.88
1481928	VALRELIEF	1	102.80
5895633	VALVE GP-MT	5	1,572.30
1305300	CLIP	3	49.92
1M3466	CLIP	1	13.30
2042281	TIE-WRAP	5	10.40
2048000	MOUNT-TIE WR	1	7.51
2697852	SEAL-O-RING	5	28.40
3523968	CLIP-LADDER	1	23.76
2287093	SEAL-O-RING	2	13.54
2385084	SEAL-O-RING	2	19.18
4523974	HARNESS AS -	1	505.30
3930721	GASKET	5	48.20
7K1181	STRAP-CABLE	15	
8L2777			7.05
3747463	SEAL-O-RING	5	25.90
	CAP-SEAL	1	1.50
9X4609	SEAL O RING	1	3.29
2S4663	SEAL-O-RING	1	2.13
2M9780	SEAL-O-RING	1	1.59
2385078	SEAL-O-RING	3	12.24
3D8317	RING	1	0.45
4B9880	BALL-STEEL	1	0.36
4M2381	SPRING	1	4.18
1M9351	SPRING	1	68.30
8M5253	SEAL O RING	1	2.87
2566453	SENSOR GP-TE	1	54.39
4J5477	SEAL-O-RING	5	6.15
5M2054	BEARING AR	10	161.70
5M6126	BEARING	4	81.76
6Y5793	RING SEAL	2	192.30
9W9856	DISC A	10	3,445.50
5P0403	BEARING NEED	1	26.30
2346707	DISC-FRICTIO	5	397.50
1067798	BEARING	2	130.22
1P3958	ROLLER A	4	211.52
6Y3484	BEARING	3	418.71
1240501	CONE-SPL	2	678.94
1240502	CUP-SPL-TAP	2	178.32
2H6489	RACE-ROLLER	1	96.17
2H6490	ROLLER A.	1	132.02
3L9409	CUP-TAPER	2	81.58
3L9410	CONE	2	141.38
7D8636	CONE	1	61.19
7D8637	CUP	1	39.80
9\$7949	CUP TAPERED	1	35.37
9\$7950	CONE TAPERED	1_	54.14
3S2093	TIE	5	1.30
368-5063	TUBE ASMAG	1	87.25
269-7885	SEAL-O-RING	1	27.28
175-7895	SEAL-O-RING	1	4.68
8T-MISC	HARDWARE	10	250.00
1325789	CLIP	6	44.64
2147568	SEAL-O RING	7	35.42

2385080 2385082 3181179 3398928 3D2824 3J1907 3K0360 5M2894 6V0852 6V0973 6V3965 6V5839 6V8397 8T0722 9M1974	SEAL-O-RING SEAL-O-RING SENSOR GP-SP PLUG-ORIFICE SEAL-O-RING SEAL SEAL-O-RING WASHER CAP SEAL NIPPLE A WASHER-HARD SEAL BOLT WASHER	2 3 3 2 4 19 3 29 8 2 3 42 8 28 18	11.8
		Total Estimated Parts: Segment 16 Total:	19,114.44 29,264.44
SEGMENT: 17	REPLACE WITH NEW TRANSMISSION OIL PUMP	•	
Part Number	Description	Qty	Ext Price
5K9090	SEAL-O-RING	4	6.56
7M8485	SEAL	3	6.51
1H6227	SEAL-O-RING	1	5.80
4251283 8T4223	PUMP GP-GR 3	1	3,884.59
362-1320	WASHER BOLT-HEX HEA	2 2	1.88 3.28
002 1020	BOLIFIEXTIEX	2	3.20
		Total Estimated Parts: Segment 17 Total:	3,908.62 4,198.62
SEGMENT: 18	REMV RECONDITION & INSTL TRANSMISSION OIL	FILTER	
Part Number	Description	Qty	Ext Price
4250510	HARNESS AS	1	
1305300		·	119.64
	CLIP	2	33.28
2042281	TIE-WRAP	2 5	33.28 10.40
2048000	TIE-WRAP MOUNT-TIE WR	2 5 3	33.28 10.40 22.53
2048000 4D7794	TIE-WRAP MOUNT-TIE WR CLIP	2 5 3 2	33.28 10.40 22.53 9.08
2048000	TIE-WRAP MOUNT-TIE WR	2 5 3	33.28 10.40 22.53 9.08 1.16
2048000 4D7794 3J7354 8C3446 6V3965	TIE-WRAP MOUNT-TIE WR CLIP SEAL-O-RING VALVE NIPPLE A	2 5 3 2	33.28 10.40 22.53 9.08
2048000 4D7794 3J7354 8C3446 6V3965 2147568	TIE-WRAP MOUNT-TIE WR CLIP SEAL-O-RING VALVE NIPPLE A SEAL-O RING	2 5 3 2	33.28 10.40 22.53 9.08 1.16 26.60 26.72 5.06
2048000 4D7794 3J7354 8C3446 6V3965 2147568 6V6609	TIE-WRAP MOUNT-TIE WR CLIP SEAL-O-RING VALVE NIPPLE A SEAL-O RING SEAL	2 5 3 2	33.28 10.40 22.53 9.08 1.16 26.60 26.72 5.06 1.41
2048000 4D7794 3J7354 8C3446 6V3965 2147568 6V6609 3J1907	TIE-WRAP MOUNT-TIE WR CLIP SEAL-O-RING VALVE NIPPLE A SEAL-O RING SEAL SEAL	2 5 3 2 1 1 1 1 1	33.28 10.40 22.53 9.08 1.16 26.60 26.72 5.06 1.41 1.29
2048000 4D7794 3J7354 8C3446 6V3965 2147568 6V6609 3J1907 2431277	TIE-WRAP MOUNT-TIE WR CLIP SEAL-O-RING VALVE NIPPLE A SEAL-O RING SEAL SEAL WASHER-HARD	2 5 3 2 1 1 1 1 1 1 1 8	33.28 10.40 22.53 9.08 1.16 26.60 26.72 5.06 1.41 1.29 17.04
2048000 4D7794 3J7354 8C3446 6V3965 2147568 6V6609 3J1907	TIE-WRAP MOUNT-TIE WR CLIP SEAL-O-RING VALVE NIPPLE A SEAL-O RING SEAL SEAL	2 5 3 2 1 1 1 1 1	33.28 10.40 22.53 9.08 1.16 26.60 26.72 5.06 1.41 1.29 17.04 10.38
2048000 4D7794 3J7354 8C3446 6V3965 2147568 6V6609 3J1907 2431277 3E9411 6V0852 7X2553	TIE-WRAP MOUNT-TIE WR CLIP SEAL-O-RING VALVE NIPPLE A SEAL-O RING SEAL SEAL WASHER-HARD WASHER CAP BOLT	2 5 3 2 1 1 1 1 1 1 8 3	33.28 10.40 22.53 9.08 1.16 26.60 26.72 5.06 1.41 1.29 17.04
2048000 4D7794 3J7354 8C3446 6V3965 2147568 6V6609 3J1907 2431277 3E9411 6V0852 7X2553 8C3447	TIE-WRAP MOUNT-TIE WR CLIP SEAL-O-RING VALVE NIPPLE A SEAL-O RING SEAL SEAL WASHER-HARD WASHER CAP BOLT DUST CAP	2 5 3 2 1 1 1 1 1 1 8 3 1 3	33.28 10.40 22.53 9.08 1.16 26.60 26.72 5.06 1.41 1.29 17.04 10.38 5.29 8.28 5.29
2048000 4D7794 3J7354 8C3446 6V3965 2147568 6V6609 3J1907 2431277 3E9411 6V0852 7X2553 8C3447 8T4121	TIE-WRAP MOUNT-TIE WR CLIP SEAL-O-RING VALVE NIPPLE A SEAL-O RING SEAL SEAL WASHER-HARD WASHER CAP BOLT DUST CAP WASHER	2 5 3 2 1 1 1 1 1 1 8 3 1 3 1 4	33.28 10.40 22.53 9.08 1.16 26.60 26.72 5.06 1.41 1.29 17.04 10.38 5.29 8.28 5.29 2.48
2048000 4D7794 3J7354 8C3446 6V3965 2147568 6V6609 3J1907 2431277 3E9411 6V0852 7X2553 8C3447 8T4121 4400257	TIE-WRAP MOUNT-TIE WR CLIP SEAL-O-RING VALVE NIPPLE A SEAL-O RING SEAL SEAL WASHER-HARD WASHER CAP BOLT DUST CAP WASHER SWITCH AS-PR	2 5 3 2 1 1 1 1 1 8 3 1 3 1 4 1	33.28 10.40 22.53 9.08 1.16 26.60 26.72 5.06 1.41 1.29 17.04 10.38 5.29 8.28 5.29 2.48 186.75
2048000 4D7794 3J7354 8C3446 6V3965 2147568 6V6609 3J1907 2431277 3E9411 6V0852 7X2553 8C3447 8T4121 4400257 5P7701	TIE-WRAP MOUNT-TIE WR CLIP SEAL-O-RING VALVE NIPPLE A SEAL-O RING SEAL SEAL WASHER-HARD WASHER CAP BOLT DUST CAP WASHER SWITCH AS-PR SEAL	2 5 3 2 1 1 1 1 1 1 8 3 1 3 1 4 1 2	33.28 10.40 22.53 9.08 1.16 26.60 26.72 5.06 1.41 1.29 17.04 10.38 5.29 8.28 5.29 2.48 186.75 18.28
2048000 4D7794 3J7354 8C3446 6V3965 2147568 6V6609 3J1907 2431277 3E9411 6V0852 7X2553 8C3447 8T4121 4400257 5P7701 8L2786	TIE-WRAP MOUNT-TIE WR CLIP SEAL-O-RING VALVE NIPPLE A SEAL-O RING SEAL SEAL WASHER-HARD WASHER CAP BOLT DUST CAP WASHER SWITCH AS-PR SEAL SEAL SEAL SEAL	2 5 3 2 1 1 1 1 1 8 3 1 3 1 4 1 2 3	33.28 10.40 22.53 9.08 1.16 26.60 26.72 5.06 1.41 1.29 17.04 10.38 5.29 8.28 5.29 2.48 186.75 18.28 17.82
2048000 4D7794 3J7354 8C3446 6V3965 2147568 6V6609 3J1907 2431277 3E9411 6V0852 7X2553 8C3447 8T4121 4400257 5P7701	TIE-WRAP MOUNT-TIE WR CLIP SEAL-O-RING VALVE NIPPLE A SEAL-O RING SEAL SEAL WASHER-HARD WASHER CAP BOLT DUST CAP WASHER SWITCH AS-PR SEAL	2 5 3 2 1 1 1 1 1 8 3 1 3 1 4 1 2 3 1	33.28 10.40 22.53 9.08 1.16 26.60 26.72 5.06 1.41 1.29 17.04 10.38 5.29 8.28 5.29 2.48 186.75 18.28 17.82 42.06
2048000 4D7794 3J7354 8C3446 6V3965 2147568 6V6609 3J1907 2431277 3E9411 6V0852 7X2553 8C3447 8T4121 4400257 5P7701 8L2786 3477407	TIE-WRAP MOUNT-TIE WR CLIP SEAL-O-RING VALVE NIPPLE A SEAL-O RING SEAL SEAL WASHER-HARD WASHER CAP BOLT DUST CAP WASHER SWITCH AS-PR SEAL SEAL SEAL SEAL SEAL TOUST CAP SEAL SEAL SEAL SEAL SEAL SEAL SEAL SEAL	2 5 3 2 1 1 1 1 1 8 3 1 3 1 4 1 2 3	33.28 10.40 22.53 9.08 1.16 26.60 26.72 5.06 1.41 1.29 17.04 10.38 5.29 8.28 5.29 2.48 186.75 18.28 17.82

		Total Estimated Parts: Segment 18 Total:	795.1; Item 5.
FGMENT: 19	REPLACE TRANSMISSION LINES/HOSES		

SEGWENT: 19	REPLACE TRANSMISSION LINES/HOSES		
Part Number	Description	Qty	Ext Price
2048000	MOUNT-TIE WR	1	7.51
3D2824	SEAL-O-RING	1	2.00
7J9108	SEAL	1	1.41
2965780	GROMMET	1	203.40
3722504	HOSE AS	1	98.74
3722505	HOSE AS	1	98.06
3722506	HOSE AS	1	103.55
3722507	HOSE AS	1	100.15
2751741	GROMMET	2	44.12
3722508	HOSE AS	1	143.00
3722509	HOSE AS	1	128.91
3722510 3722512	HOSE AS HOSE AS	1	136.06
3722512	HOSE AS	1	138.22 138.05
5P8444	GROMMET	1	45.82
6V4349	GROMMET	1	21.17
9K0700	GROMMET	1	7.79
7 1024	CM GUARD	150	28.50
3787071	HOSE AS.	1	55.72
3787072	HOSE AS.	1	91.14
3787073	HOSE AS.	1	245.45
3787074	HOSE AS.	1	315.49
3787075	HOSE AS.	1	442.97
3792210	HOSE AS.	1	327.42
3792211	HOSE AS.	1	481.20
3792214	HOSE AS.	1	193.31
4221999	HOSE AS.	1	247.33
4222003	HOSE AS.	1	308.20
4222004	HOSE AS.	1	256.84
3J1907	SEAL	1	1.29
6V8397	SEAL	1	1.31
1P3704	SEAL	1	3.16
4J0520	SEAL-O-RING	2	4.98
4J0522	SEAL-O-RING	3	8.25
4J0524	SEAL-O-RING	5	16.60
4J0527	SEAL-O-RING	2	7.64
5K9090	SEAL-O-RING	1	1.64
5P7703 5P8112	GROMMET GROMMET	1	24.93
6J2680	SEAL-O-RING	1	29.97
6V7359	GROMMET	2 2	8.84 57.64
7G3415	GROMMET	2	196.86
7G5986	GROMMET	1	72.91
4J5477	SEAL-O-RING	9	11.07
2006345	MOUNT-SWIVEL	5	32.20
2042281	TIE-WRAP	25	52.00
2147568	SEAL-O RING	9	45.54
2P1279	LOCKNUT 37 D	9	20.61
6V0852	CAP	9	47.61
6V3965	NIPPLE A	9	240.48
8T4121	WASHER	24	14.88
		Total Estimated Parts:	5,311.94
		Segment 19 Total:	8,791.94
CEOMENT: 00	DEMOVE A MOTALL BRIVE OUAET		

SEGMENT: 20 REMOVE & INSTALL DRIVE SHAFT

Part Number	Description	Qty	Item 5
3B8489	FITTING	3	6.69
2H3933	SEAL-O-RING	1	5.79
5P8245 6V8149	WASHER HARD NUT	12 6	9.72 3.12
8T0281	BOLT	4	15.48
9J4782	PROTECTOR	3	2.19
8C8771	FITTING	1	1.39
482-3555	BOLT-HEX HEA CAT PRIME APPL GRS	6 3	22.68
4526006	CAT PRIME APPL GRS	3	11.46
		Total Estimated Parts: Segment 20 Total:	78.52 731.02
SEGMENT: 21	RECONDITION/ REBUILD DRIVE SHAFT		
Part Number	Description	Qty	Ext Price
135355	LOCTITE 242 REMOVA	1	36.07
2D8540	SEAL-LIP TYP	2	65.92
8T0281 1060933	BOLT SPIDER G	20 5	77.40 4,354.40
1593945	BEARING	1	589.18
1H8278	SEAL-O-RING	1	7.45
6V1820	BOLT	2	1.24
6V5839 2T3013	WASHER-HARD SPIDER G	2 2	1.04 334.98
6V3823	BOLT	8	13.36
4526006	CAT PRIME APPL GRS	3	11.46
		Total Estimated Parts: Segment 21 Total:	5,492.50 6,942.50
SEGMENT: 23	REPLACE WITH CAT REMAN DRIVE TRAIN ELEC C	CONTROL	
Part Number	Description	Qty	Ext Price
8T9655	MOUNT	8	22.24
7K1181	STRAP-CABLE WASHER	12	5.64
9N0869 20R7217	CONT GP-E	4 1	2.80 2,159.36
	3 3	·	Δ, , σσ.σσ
		Total Estimated Parts: Segment 23 Total:	2,190.04 2,625.04
SEGMENT: 36	REPLACE COMPACTOR WHEEL		
Part Number	Description	Qty	Ext Price
8T-MISC	HARDWARE	10	250.00
		Total Estimated Parts: Segment 36 Total:	250.00 60,690.00
SEGMENT: 37	REMOVE & INSTALL AXLE ARRANGEMENT		
Part Number	Description	Qty	Ext Price
8T9576	CAT TDTO 50WT 5GA	10	957.10
4627709 8T4121	CAT TDTO 50 2.5 G	1	54.76
8T4121	WASHER	16	9.92

5B0935 5P5461 5P5463 7X0492 9J4782 8T0281 4J5477 4526006	FITTING NUT ADAPTER ELBOW-90 PROTECTOR BOLT SEAL-O-RING CAT PRIME APPL GRS	2 2 2 2 2 4 2 2 Total Estimated Parts:	4.52 Item 5. 2.92 11.16 15.08 1.46 15.48 2.46 7.64 1,082.50
SEGMENT: 38	RECONDITION/ REBUILD AXLE ARRANGEMENT	Segment 37 Total:	3,402.50
Part Number	Description	Qty	Ext Price
8T-MISC 1K6853 1T0479 8T0336 1644175 2206043 1608510 2D6533 3K0360 5P4484 7M8485 5S0085 8T0441 4636062 8T4121 9M6097 1378856 1547997 1649326 1211257 3979376 1782991 1924744 7D4721 7D4719 8M3837 1752853 1S3889 8C8992 2591012 2552448 555354	HARDWARE FITTING RING-RETAINI FITTING PLATE-THRUST BEARING-SLEE BOLT SEAL-O-RING SEAL-O-RING SEAL BEARING-THRU BOLT BOLT-HEX HEA WASHER RING PIN SHIM PACK SHIM-PACK RING BOLTHEX HEAD BOLT-HEX HEA BOLT RETAINER SPRING PLUG SHIM-PACK WASHER SPRING PLUG SHIM-PACK WASHER SPRING PLUG SHIM-PACK WASHER-PLUG BOLT KIT-DT BEARI KIT-DT BEARI KIT-DT BEARI	10 2 2 1 1 2 78 1 2 1 5 2 12 50 20 3 1 1 1 1 1 16 29 2 2 2 2 2 2 2 2 2 1 2 1 4	250.00 5.28 23.54 2.51 822.78 1,284.38 529.62 9.27 2.92 57.84 10.85 483.32 19.92 800.00 12.40 57.30 83.20 37.07 272.78 6.06 194.24 387.44 1.12 326.42 298.62 104.84 191.14 43.08 25.44 9,170.74 3,789.23 78.96
SEGMENT: 41	REMOVE & INSTALL AXLE ARRANGEMENT	Total Estimated Parts: Segment 38 Total:	19,382.31 31,344.81
		-	_
Part Number 8T9576 8T0281	Description CAT TDTO 50WT 5GA BOLT	Qty 10 4	Ext Price 957.10 15.48
		Total Estimated Parts: Segment 41 Total:	972.58 3,292.58
SEGMENT: 42	RECONDITION/ REBUILD AXLE ARRANGEMENT		

Part Number	Description	Qty	Ext Price	Item 5.
1T0479	RING-RETAINI	2	23.54	
8T0336	FITTING	1	23.54	
5P4484	PLUG	1	57.84	
4636062	BOLT-HEX HEA	50	800.00	
5244100	SEAL-D RING	2	39.72	
9F2167	SCREW	2	11.58	
3K0360	SEAL-O-RING	2	2.92	
5244099	SEAL-D-RING	2 2	33.32	
7V8346	GUIDE-SPRING	8	164.00	
8V3609	SPRING	8	156.96	
2010737	DISC-FRICTIO	8	1,893.20	
1628284	BOLT	6	18.78	
9M2076 9J4782	RING PROTECTOR	2	51.16	
1378856	PIN	2 1	1.46 83.20	
1547997	SHIM PACK	1	83.20 37.07	
1649326	SHIM-PACK	1	272.78	
1211257	RING	1	6.06	
3979376	BOLTHEX HEAD	16	194.24	
1782991	BOLT-HEX HEA	29	387.44	
1608510	BOLT	24	162.96	
1924744	BOLT	2	1.12	
7D4721	RETAINER	2	326.42	
7D4719	SPRING	2 2	298.62	
1250965	RING	2	0.68	
1H8171	SEAL-O-RING	2	3.80	
8M3837	PLUG	2 2	104.84	
1752853	SHIM-PACK	2 2	191.14	
1S3889 8C8992	WASHER-PLUG BOLT	2 16	43.08	
3112166	HOSE AS.	1	25.44 98.46	
6V8398	SEAL O RING	5	6.70	
2591012	KIT-DT BEARI	2	9,170.74	
2552448	KIT-DT BEARI	<u>-</u>	3,789.23	
555354	LOCTITE HI FL GM F	4	78.96	
8T-MISC	HARDWARE	10	250.00	
5P8119	SEAL	4	29.28	
7M8485	SEAL	4	8.68	
8T4121	WASHER	9	5.58	
		Total Estimated Parts:	18,833.51	
		Segment 42 Total:	31,376.01	
SEGMENT: 43	REPLACE WITH NEW PRECLEANER			
Part Number	Description	Ohy	Ext Price	
	·	Qty		
5869369	BAFFLE	1	82.97	
3800663 8T4222	BAFFLE WASHER	1	56.21	
1303281	PRECLEANER	7 1	9.59	
2085837	PRESCREEN	1	683.35 647.94	
1456669	SCREW-SELF T	6	3.00	
	00,000	v	5.00	
		Total Estimated Parts:	1,483.06	
		Segment 43 Total:	1,628.06	

SEGMENT: 44 REPLACE WITH NEW EXHAUST HEAT SHIELD

Part Number	Description	Qty	Ext Price
		·	ltem 5.
3771062 3771063	SHIELD AS SHIELD AS.	1 1	278.5(L 337.07
5178195	SHIELD AS-HE	1	667.33
5178196	SHIELD AS-HE	1	645.26
5178197	SHIELD AS-HE	1	742.24
3806885	SHIELD AS-HE	1	529.53
3806886 3806887	SHIELD AS-HE SHIELD AS-HE	1	1,081.39
5532071	SHIELD AS-HE	1	478.12 381.31
5532072	SHIELD AS-HE	1	633.35
4492534	SHIELD AS-HE	1	622.16
5532070	SHIELD AS-HE	1	671.78
8T-MISC	HARDWARE	2	0.00
		Total Estimated Parts:	7,068.04
		Segment 44 Total:	7,648.04
SEGMENT: 46	TEST/CHECK& ADJUST MACHINE		
Part Number	Description	Qty	Ext Price
YANOIL	OIL SOS KIT	9	184.50
YANOILPROBE	OIL SAMPLE KIT	1	21.50
YANCOOL2	LEVEL 2 GREEN CAP	1	33.00
8T-MISC	HARDWARE	2	50.00
2956257 3891088	ELEMENT AS ELEMENT AS	1 1	65.50 69.09
2226713	FILTER AS-SC	2	269.46
5000483	ELEMENT-LUBE	1	38.79
5000480	ELEMENT-FUEL	2	48.62
4367077	ELEMENT FUEL	1	44.70
571-5253	ELEMENT AS-X	1	85.29
		Total Estimated Parts: Segment 46 Total:	910.45 4,390.45
SEGMENT: 48	INSTALL PRODUCT LINK SYSTEM	•	·
Part Number	Description	Qty	Ext Price
1715349	STRAP	12	5.64
5362641	RETAINER AS	1	259.90
8T8737	PLUG	4	1.84
9X3402 8T-MISC	SOCKET HARDWARE	12 2	25.08
1552255	PLUG KIT-CON	1	50.00 19.18
5818919	INSTL GP-FIE	1	553.79
		Total Estimated Parts:	915.43
		Segment 48 Total:	1,962.43
SEGMENT: 49	TRANSPORT COMPONENT(S)		
Part Number	Description	Qty	Ext Price
8T-MISC	HARDWARE	4	100.00
		Total Estimated Parts: Segment 49 Total:	100.00 1,890.00
SEGMENT: 52	REMOVE & INSTALL HYDRAULIC TANK		

			Γ	
Part Number	Description	Qty	Ext Pric	Item 5.
3145168	CAT HYDO ADV BULK	47	856.81	
1305300	CLIP	1	16.64	
8T4121	WASHER	1	0.62	
2042281	TIE-WRAP	5	10.40	
3D2824	SEAL-O-RING	1	2.00	
1P3706	SEAL	3	11.94	
4J0522	SEAL-O-RING	1	2.75	
0908865 8T4132	SPACER	4	30.00	
8T4167	NUT WASHER	2 4	3.28	
8T7338	BOLT	6	10.40 18.96	
9X8257	WASHER	4	5.24	
610-5988	BOLT-HEX HEA	4	42.76	
4J0527	SEAL-O-RING	1	3.82	
6J2680	SEAL-O-RING	2	8.84	
		Total Estimated Parts:	1,024.46	
		Segment 52 Total:	2,909.46	
SEGMENT: 53	RECONDITION/ REBUILD HYDRAULIC TANK			
Part Number	Description	Qty	Ext Price	
6V8397	SEAL	2	2.62	
6V3965	NIPPLE A	2	53.44	
6V0852	CAP	2	10.58	
2222367	VALVE GP	<u>-</u> 1	75.13	
1J9671	SEAL-O-RING	1	1.21	
2410037	FILM	1	11.58	
2240672	FILM	1	10.45	
1700493	SEAL KIT	1	208.98	
2956257	ELEMENT AS	1	65.50	
4900662	INDICATOR-PR	1	198.94	
3697506	KIT- SEAL	1	36.13	
7K1181	STRAP-CABLE	3	1.41	
5456034	HARNESS AS	1	180.84	
1305300 2042281	CLIP TIE-WRAP	1 10	16.64	
2048000	MOUNT-TIE WR	5	20.80 37.55	
3747463	CAP-SEAL	1	1.50	
5K9090	SEAL-O-RING	1	1.64	
6V0683	GROMMET	2	38.96	
2566453	SENSOR GP-TE		54.39	
1577911	BREATHER-7 P	1	77.52	
1M8649	RING-RETAINI	1	26.42	
4J0527	SEAL-O-RING	1	3.82	
4J3815	GASKET	1	6.18	
5F6222	SEAL-O-RING	1	10.45	
5M2057	SEAL-O-RING	1	2.13	
4806500	GASKET	1	14.58	
7B2805	RING-LOCK	1	5.66	
7B3039	SPRING	1	8.67	
8F6711 8J8783	SEAL-O-RING VALVE	2 1	7.64	
8T2275	BALL	1	3.03	
8T3298	SEAL	1	0.40 4.08	
9T9227	SCREEN A	2	347.50	
2608636	GAGE-LIQ LEV	1	58.88	
5D1901	WASHER	1	3.95	
6V7744	LOCKNUT	8	12.72	
3447391	SENSOR GP-PR	1	415.93	

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492-1949	VALVE GP-CHR	1	944.4
9X-2125	BOLT	4	3.7 Item 5
8T-MISC	HARDWARE		50.00
2147568	SEAL-O RING	2 3	
		3	15.18
3D2824	SEAL-O-RING	5	10.00
3J1907	SEAL	3	3.87
3K0360	SEAL-O-RING	6	8.76
6V8398	SEAL O RING	18	24.12
6V9746	SEAL O RING	6	8.94
7M8485	SEAL	3	6.51
8T4121	WASHER	39	24.18
248-0363	STRAINER	1	37.74
		Total Estimated Parts:	3,175.31
		Segment 53 Total:	5,205.31
SEGMENT: 54	REPLACE WITH CAT REMAN BRAKE& PILOT PUMP		
David November	Description	•	
Part Number	Description	Qty	Ext Price
4392452	HOSE AS	1	183.28
8T4983	CLAMP	2	36.20
4J0522	SEAL-O-RING	2	5.50
20R9363	PUMP GP-PIST	1	1,565.39
3K0360	SEAL-O-RING	1	1.46
7J9108	SEAL	3	4.23
1H6227	SEAL-O-RING	1	5.80
8T4139	BOLT	2	2.54
8T4223	WASHER	2	1.88
		Total Estimated Parts:	1,806.28
		Segment 54 Total:	2,096.28
			2,000.20
SEGMENT: 55	REPLACE WITH NEW IMPLEMENT PUMP		
Part Number	Description	Qty	Ext Price
3803472	HOSE AS	1	274.06
1440367	CLAMP	4	72.20
1P3705	SEAL	1	3.58
4J0527	SEAL-O-RING	1	3.82
6J2680	SEAL-O-RING	1	4.42
8T4984	CLAMP	2	35.22
3664955	PUMP GP-PS-B	1	4,338.81
2M9780	SEAL-O-RING	1	1.59
1757904	SEAL-O-RING	1	7.56
3D2824	SEAL-O-RING	2	4.00
5120669	HOSE AS.	1	56.50
5K9090	SEAL-O-RING	3	4.92
4644876	PUMP GP-PS-B	1	5,640.79
541-7171	HOSE BK	25	54.50
2147568	SEAL-O RING	2	10.12
3J7354	SEAL-O-RING		4.64
6V0852	CAP	4 2 2	10.58
6V3965	NIPPLE A	2	53.44
6V8397	SEAL	4	5.24
6V9746	SEAL O RING	4	5.96
8T7338	BOLT	4	12.64
9X8257	WASHER	4	5.24
		Total Estimated Parts:	10,609.83
		Segment 55 Total:	11,479.83

Part Number	Description	064	Ev4 Deta-
	•	Qty	Ext Price
2042281	TIE-WRAP	5	10.40
7X7729 8T4136	WASHER BOLT	8 8	8.24
014130	BOLT	8	5.92
		Total Estimated Parts:	24.56
		Segment 56 Total:	604.56
SEGMENT: 57	RECONDITION/ REBUILD STEERING VALVE		
SEGMENT. SI	RECONDITION REBUILD STEERING VALVE		
Part Number	Description	Qty	Ext Price
1494617	VALVE GP	1	344.33
3K0360	SEAL-O-RING	9	13.14
6V8398	SEAL O RING	43	57.62
1854026	VALVE GP-CHE	1	96.27
3791634	HOSE AS.	1	94.76
3J1907	SEAL	15	19.35
6V8397	SEAL	13	17.03
6V3965	NIPPLE A	2	53.44
2147568	SEAL-O RING	2	10.12
3D2824	SEAL-O-RING	4	8.00
6V9746 7J9108	SEAL O RING SEAL	1	1.49
2S4078	SEAL-O-RING	1	1.41
1J9671	SEAL-O-RING SEAL-O-RING	1	2.53 1.21
5K9090	SEAL-O-RING	2	3.28
2022762	CLIP-LOOP	1	10.96
6V0852	CAP	2	10.58
6V3265	CLIP	3	15.27
8T4121	WASHER	28	17.36
1234750	VALVE-CHK	1	116.06
3351074	VALVE GP-PRE	1	269.36
9X8256	WASHER	2	0.70
5S7018	SPACER	6	10.38
7S8553	SPRING	1	10.90
5S7001	SPACER	6	9.66
2M9780	SEAL-O-RING	2	3.18
2778863	VALVE GP-SOL	1	183.85
2743774	CAP-CONNECTO	1	1.02
2743781	SEAL CAP (3)	2	3.96
3447389	SENSOR GP-PR	1	415.93
3491178	SENSOR GP-PR	1	415.93
4250497	HARNESS AS	1	247.35
1305300	CLIP	2	33.28
1325789 2042281	CLIP TIE-WRAP	2 10	14.88
2048200	MOUNT-TIE WR	4	20.80
4P7428	CLIP	1	30.04 7.27
4P7581	CLIP	1	5.08
7K1181	STRAP-CABLE	20	9.40
3510320	ACCUMULATOR	1	333.64
3447391	SENSOR GP-PR	1	415.93
8T-MISC	HARDWARE	2	50.00
		T.4.1 E. 2	A A A
		Total Estimated Parts:	3,386.75
		Segment 57 Total:	5,706.75
SEGMENT: 58	REMOVE & INSTALL HYDRAULIC CONTROL VALVE	=	

Item 5. Part Number Description Ext Pric Qty 4V1939 CLAMP 2 17.16 7K1181 STRAP-CABLE 5 2.35 8T4121 WASHER 2 1.24 7G7053 **GROMMET** 1 9.59 9X8256 WASHER 2 0.70 4J0520 SEAL-O-RING 2 4.98 8T4139 **BOLT** 4 5.08 8T4223 WASHER 4 3.76 6V3265 CLIP 1 5.09

> Total Estimated Parts: 49.95 Segment 58 Total: 1,137.45

SEGMENT: 59 RECONDITION/ REBUILD HYDRAULIC CONTROL VALVE

Part Number	Description	Qty	Ext Price
4Y7882	HORN AS-24 V	2	532.08
2137866	WIRE AS	2	0.00
1121817	VALVE	1	93.72
1234750	VALVE-CHK	2	232.12
2451319	HOSE AS.	1	87.84
2519993	HOSE AS.	1	95.00
6V3965	NIPPLE A	2	53.44
0966166	WASHER	4	1.04
4J0520	SEAL-O-RING	2	4.98
5P9297	CLIP	3	18.81
6V0852	CAP	3	15.87
7S4244	CLIP	1	10.81
1214405	BOLT HEX	4	0.60
6V8398	SEAL O RING	1	1.34
1566175	CLIP	2	14.66
1P3702	SEAL	1	2.32
4J0522	SEAL-O-RING	9	24.75
4J8997	SEAL-O-RING	2	4.50
6V5555	SEAL-O-RING	9	11.43
4T4935	VALVE G	1	195.99
8J6815	PLUG	1	14.18
1047574	VALVE G	1	363.74
5H1472	BALL-STEEL	1	0.31
9G0278	SPRING	1	5.82
4T5071	RING-BACKUP	1	4.74
8L6565	PIN	1	0.35
9X8256	WASHER	4	1.40
4T1701	SPRING	1	14.67
4T4511	SLEEVE	1	31.65
4T5073	RING-BACKUP	2	14.52
9J8126	PLUG	1	6.88
3137668	VALVE GP SOL	2	522.26
3487104	SPRING	1	17.05
3529954 1879630	SPRING	1	15.03
	SEAL-O-RING	2 2	3.68
4K1388 5M2057	SEAL-O-RING SEAL-O-RING	1	4.28
2J2866	SHIM	4	2.13
4T4628	SHIM	12	6.84
6E5066	SCREEN	2	62.52
1T0936	PLUG	2 2	55.66 15.84
2147567	SEAL-O-RING	1	15.84
3K0360	SEAL-O-RING SEAL-O-RING	1	4.72
31/0300	SEAL-U-KING		1.46

3J9015	SEAL-O-RING	3	5.88 _{Item}	5
4T4207	PLUG	1	8.01	<u> </u>
5F9144	SEAL-O-RING	1	1.05	
7J0204	SEAL	1	1.06	
4Z5900	VALVE GP	2	860.48	
2407356	SEAL KIT	1	28.34	
7K1181	STRAP-CABLE	20	9.40	
3608196	HARNESS AS	1	388.14	
3338242	VALVE GP-SOL	1	130.44	
3749491	VALVE OP OUT	1	269.36	
2483291 2385078	VALVE GP-SHU	1	133.86	
	SEAL-O-RING	3 2	12.24	
2287089 361 - 3549	SEAL-O-RING SEAL-O-RING	2 2	10.02	
4J-5477	SEAL-O-RING SEAL-O-RING	1	3.58 1.23	
8T-MISC	HARDWARE	2	50.00	
1305300	CLIP	4	66.56	
1H1023	SEAL-O-RING	7	7.77	
2147568	SEAL-O RING	3	15.18	
2S2596	SPRING	3	20.04	
3664972	RING-BACKUP	2	13.82	
3J1907	SEAL	24	30.96	
3J7354	SEAL-O-RING	10	11.60	
4B4278	WASHER-STD.	16	5.92	
4J5351	SEAL	2	3.06	
4J7533	SEAL-O-RING	$\overline{4}$	4.20	
4T5072	RING	2	12.94	
6V5556	SEAL O RING	2	3.64	
6V8397	SEAL	25	32.75	
7M8485	SEAL	2	4.34	
8T4121	WASHER	16	9.92	
		Total Estimated Parts: Segment 59 Total:	4,726.83 8,206.83	
		Total Estimated Parts: Segment 59 Total:	4,726.83 8,206.83	
SEGMENT: 60	REPLACE STEERING & BRAKE LINES			
SEGMENT: 60	REPLACE STEERING & BRAKE LINES			
SEGMENT: 60 Part Number	REPLACE STEERING & BRAKE LINES Description	Segment 59 Total:		
Part Number	Description	Segment 59 Total: Qty	8,206.83 Ext Price	
Part Number	Description TAG	Segment 59 Total: Qty 2	8,206.83 Ext Price 6.10	
Part Number 1V1122 1V1123	Description TAG TAG	Segment 59 Total: Qty 2 2 2	8,206.83 Ext Price 6.10 6.10	
Part Number 1V1122 1V1123 7K3974	Description TAG TAG TAG TAG	Segment 59 Total: Qty 2 2 4	8,206.83 Ext Price 6.10 6.10 11.68	
Part Number 1V1122 1V1123 7K3974 7K3975	Description TAG TAG	Segment 59 Total: Qty 2 2 4 4 4	8,206.83 Ext Price 6.10 6.10 11.68 11.68	
Part Number 1V1122 1V1123 7K3974	Description TAG TAG TAG TAG TAG	Segment 59 Total: Qty 2 2 4 4 15 2	8,206.83 Ext Price 6.10 6.10 11.68 11.68 7.05	
Part Number 1V1122 1V1123 7K3974 7K3975 7K1181	Description TAG TAG TAG TAG TAG STRAP-CABLE HOSE AS. HOSE AS.	Segment 59 Total: Qty 2 2 4 4 4	8,206.83 Ext Price 6.10 6.10 11.68 11.68	
Part Number 1V1122 1V1123 7K3974 7K3975 7K1181 3767658	Description TAG TAG TAG TAG TAG STRAP-CABLE HOSE AS.	Segment 59 Total: Qty 2 2 4 4 15 2	8,206.83 Ext Price 6.10 6.10 11.68 11.68 7.05 209.56	
Part Number 1V1122 1V1123 7K3974 7K3975 7K1181 3767658 3767659	Description TAG TAG TAG TAG TAG STRAP-CABLE HOSE AS. HOSE AS.	Segment 59 Total: Qty 2 2 4 4 15 2 2 2	8,206.83 Ext Price 6.10 6.10 11.68 11.68 7.05 209.56 210.04	
Part Number 1V1122 1V1123 7K3974 7K3975 7K1181 3767658 3767659 3334609 5K1094 6D1641	Description TAG TAG TAG TAG TAG STRAP-CABLE HOSE AS. HOSE AS. GROMMET LOCK WASHER CLIP	Qty 2 2 4 4 15 2 2 4 4 4 15	8,206.83 Ext Price 6.10 6.10 11.68 11.68 7.05 209.56 210.04 119.40 1.48 33.08	
Part Number 1V1122 1V1123 7K3974 7K3975 7K1181 3767658 3767659 3334609 5K1094 6D1641 3159344	Description TAG TAG TAG TAG TAG STRAP-CABLE HOSE AS. HOSE AS. GROMMET LOCK WASHER CLIP HOSE AS.	Qty 2 2 4 4 15 2 2 4 4 15	8,206.83 Ext Price 6.10 6.10 11.68 11.68 7.05 209.56 210.04 119.40 1.48 33.08 163.50	
Part Number 1V1122 1V1123 7K3974 7K3975 7K1181 3767658 3767659 3334609 5K1094 6D1641 3159344 6D4244	Description TAG TAG TAG TAG TAG STRAP-CABLE HOSE AS. HOSE AS. GROMMET LOCK WASHER CLIP HOSE AS. CLIP	Qty 2 2 4 4 15 2 2 4 4 15 1 1	8,206.83 Ext Price 6.10 6.10 11.68 11.68 7.05 209.56 210.04 119.40 1.48 33.08 163.50 7.44	
Part Number 1V1122 1V1123 7K3974 7K3975 7K1181 3767658 3767659 3334609 5K1094 6D1641 3159344 6D4244 9X8250	Description TAG TAG TAG TAG TAG STRAP-CABLE HOSE AS. HOSE AS. GROMMET LOCK WASHER CLIP HOSE AS. CLIP CLIP	Qty 2 2 4 4 15 2 2 4 4 15 2 1 1 1	8,206.83 Ext Price 6.10 6.10 11.68 11.68 7.05 209.56 210.04 119.40 1.48 33.08 163.50 7.44 10.06	
Part Number 1V1122 1V1123 7K3974 7K3975 7K1181 3767658 3767659 3334609 5K1094 6D1641 3159344 6D4244 9X8250 3789964	Description TAG TAG TAG TAG TAG STRAP-CABLE HOSE AS. HOSE AS. GROMMET LOCK WASHER CLIP HOSE AS. CLIP CLIP CLIP HOSE AS.	Qty 2 2 4 4 15 2 2 4 4 15 2 1	8,206.83 Ext Price 6.10 6.10 11.68 11.68 7.05 209.56 210.04 119.40 1.48 33.08 163.50 7.44 10.06 123.46	
Part Number 1V1122 1V1123 7K3974 7K3975 7K1181 3767658 3767659 3334609 5K1094 6D1641 3159344 6D4244 9X8250 3789964 3799315	Description TAG TAG TAG TAG TAG TAG STRAP-CABLE HOSE AS. HOSE AS. GROMMET LOCK WASHER CLIP HOSE AS. CLIP CLIP HOSE AS. HOSE AS.	Qty 2 2 4 4 15 2 2 4 4 15 2 1 1 1	8,206.83 Ext Price 6.10 6.10 11.68 11.68 7.05 209.56 210.04 119.40 1.48 33.08 163.50 7.44 10.06 123.46 83.56	
Part Number 1V1122 1V1123 7K3974 7K3975 7K1181 3767658 3767659 3334609 5K1094 6D1641 3159344 6D4244 9X8250 3789964 3799315 4583624	Description TAG TAG TAG TAG TAG TAG STRAP-CABLE HOSE AS. HOSE AS. GROMMET LOCK WASHER CLIP HOSE AS. CLIP CLIP HOSE AS. HOSE AS. HOSE AS.	Qty 2 2 4 4 15 2 2 4 4 15 2 1	8,206.83 Ext Price 6.10 6.10 11.68 11.68 7.05 209.56 210.04 119.40 1.48 33.08 163.50 7.44 10.06 123.46 83.56 95.78	
Part Number 1V1122 1V1123 7K3974 7K3975 7K1181 3767658 3767659 3334609 5K1094 6D1641 3159344 6D4244 9X8250 3789964 3799315 4583624 3J1907	Description TAG TAG TAG TAG TAG TAG STRAP-CABLE HOSE AS. HOSE AS. GROMMET LOCK WASHER CLIP HOSE AS. CLIP CLIP HOSE AS. HOSE AS. HOSE AS. SEAL	Qty 2 2 4 4 15 2 2 4 4 15 2 1	8,206.83 Ext Price 6.10 6.10 11.68 11.68 7.05 209.56 210.04 119.40 1.48 33.08 163.50 7.44 10.06 123.46 83.56 95.78 1.29	
Part Number 1V1122 1V1123 7K3974 7K3975 7K1181 3767658 3767659 3334609 5K1094 6D1641 3159344 6D4244 9X8250 3789964 3799315 4583624 3J1907 6V8397	Description TAG TAG TAG TAG TAG TAG STRAP-CABLE HOSE AS. HOSE AS. GROMMET LOCK WASHER CLIP HOSE AS. CLIP CLIP HOSE AS. HOSE AS. HOSE AS. HOSE AS.	Qty 2 2 4 4 15 2 2 4 4 15 2 1	8,206.83 Ext Price 6.10 6.10 11.68 11.68 7.05 209.56 210.04 119.40 1.48 33.08 163.50 7.44 10.06 123.46 83.56 95.78 1.29 1.31	
Part Number 1V1122 1V1123 7K3974 7K3975 7K1181 3767658 3767659 3334609 5K1094 6D1641 3159344 6D4244 9X8250 3789964 3799315 4583624 3J1907 6V8397 2175449	Description TAG TAG TAG TAG TAG TAG STRAP-CABLE HOSE AS. HOSE AS. GROMMET LOCK WASHER CLIP HOSE AS. CLIP CLIP HOSE AS. HOSE AS. HOSE AS. HOSE AS. HOSE AS.	Qty 2 2 4 4 15 2 2 4 4 15 2 1	8,206.83 Ext Price 6.10 6.10 11.68 11.68 7.05 209.56 210.04 119.40 1.48 33.08 163.50 7.44 10.06 123.46 83.56 95.78 1.29 1.31 26.52	
Part Number 1V1122 1V1123 7K3974 7K3975 7K1181 3767658 3767659 3334609 5K1094 6D1641 3159344 6D4244 9X8250 3789964 3799315 4583624 3J1907 6V8397 2175449 2M0849	Description TAG TAG TAG TAG TAG TAG STRAP-CABLE HOSE AS. HOSE AS. GROMMET LOCK WASHER CLIP HOSE AS. CLIP CLIP HOSE AS. HOSE AS. HOSE AS. HOSE AS. HOSE AS. WASHER SEAL SPACER WASHER	Qty 2 2 4 4 15 2 2 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8,206.83 Ext Price 6.10 6.10 11.68 11.68 7.05 209.56 210.04 119.40 1.48 33.08 163.50 7.44 10.06 123.46 83.56 95.78 1.29 1.31 26.52 1.18	
Part Number 1V1122 1V1123 7K3974 7K3975 7K1181 3767658 3767659 3334609 5K1094 6D1641 3159344 6D4244 9X8250 3789964 3799315 4583624 3J1907 6V8397 2175449 2M0849 3159044	Description TAG TAG TAG TAG TAG TAG STRAP-CABLE HOSE AS. HOSE AS. GROMMET LOCK WASHER CLIP HOSE AS. CLIP CLIP HOSE AS.	Qty 2 2 4 4 4 15 2 2 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8,206.83 Ext Price 6.10 6.10 11.68 11.68 7.05 209.56 210.04 119.40 1.48 33.08 163.50 7.44 10.06 123.46 83.56 95.78 1.29 1.31 26.52 1.18 246.66	
Part Number 1V1122 1V1123 7K3974 7K3975 7K1181 3767658 3767659 3334609 5K1094 6D1641 3159344 6D4244 9X8250 3789964 3799315 4583624 3J1907 6V8397 2175449 2M0849 3159044 3159046	Description TAG TAG TAG TAG TAG TAG STRAP-CABLE HOSE AS. HOSE AS. GROMMET LOCK WASHER CLIP HOSE AS. CLIP CLIP HOSE AS. HOSE AS. HOSE AS. HOSE AS. HOSE AS. HOSE AS. SEAL SPACER WASHER HOSE AS. HOSE AS.	Qty 2 2 4 4 4 15 2 2 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8,206.83 Ext Price 6.10 6.10 11.68 11.68 7.05 209.56 210.04 119.40 1.48 33.08 163.50 7.44 10.06 123.46 83.56 95.78 1.29 1.31 26.52 1.18 246.66 302.65	
Part Number 1V1122 1V1123 7K3974 7K3975 7K1181 3767658 3767659 3334609 5K1094 6D1641 3159344 6D4244 9X8250 3789964 3799315 4583624 3J1907 6V8397 2175449 2M0849 3159044	Description TAG TAG TAG TAG TAG TAG STRAP-CABLE HOSE AS. HOSE AS. GROMMET LOCK WASHER CLIP HOSE AS. CLIP CLIP HOSE AS.	Qty 2 2 4 4 4 15 2 2 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8,206.83 Ext Price 6.10 6.10 11.68 11.68 7.05 209.56 210.04 119.40 1.48 33.08 163.50 7.44 10.06 123.46 83.56 95.78 1.29 1.31 26.52 1.18 246.66	

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2048000	MOUNT-TIE WR	6	45.00 _{40m} /
3766913	HOSE AS.	5	
3778834			616.2
	HOSE AS.	1	93.84
3778839	HOSE AS.	1	55.34
3780444	HOSE AS.	1	54.89
3789973	HOSE AS.	1	60.42
3789974	HOSE AS.	1	56.53
3789975	HOSE AS.	1	96.96
3789978	HOSE AS.	1	96.44
4154049	HOSE AS.	1	57.80
4154050	HOSE AS.	1	64.10
1576199	GROMMET	1	65.79
3725871	HOSE AS.	1	313.10
3949237	HOSE AS	1	272.23
4360149	BELT	1	19.95
1P3704	SEAL	2	6.32
5P8444	GROMMET	$\frac{-}{4}$	183.28
6V8398	SEAL O RING	20	26.80
3766923	HOSE AS.	1	60.26
3766924	HOSE AS.	2	138.86
3766925	HOSE AS.	1	69.58
3766926	HOSE AS.	1	
2042281	TIE-WRAP	20	69.58
			41.60
2059342	CLAMP	4	18.16
4J0520	SEAL-O-RING	6	14.94
8T4121	WASHER	54	33.48
		Total Estimated Parts:	4,861.91
		Segment 60 Total:	9,646.91
SEGMENT: 61	REMV RECONDITION & INSTL STEERING	PILOT VALVE	
Part Number	Description	Qty	Ext Price
1728591	U-NUT	2	1.46
2826685	COVER	1	101.07
2826687	COVER	1	66.47
2900813	FILM	1	14.01
2928118	CUSHION AS		
	CABLE AS	1	87.44
3691863 3691864	CLIP	1 1	32.90
1376723		·	1.79
	SCREW-FLAT H	2 2	4.28
1388454	SCREW	2	2.12
6K8179	CLIP	1	4.46
8W1784	STOP	1	3.29
8T2444	STUD	2	10.50
4340870	SPRING AS-GA	1	56.40
4527453	LATCH AS	1	203.07
2822035	CUSHION AS-L	1	71.83
2822037	CUSHION ASSY	1	67.46
2826690	COVER	1	17.67
2826693	COVER	1	64.18
2860602	BUSHING	1	26.70
2886308	KNOB AS.	2	207.00
1982970	LOCKNUT	<u></u>	0.50
3B4505	LOCKWASHER	2	0.30

2 2 2

2

2

2

2

1

3B4505

2180728

1612398

2679552

2679554

2679555

2679556

2822033

LOCKWASHER

SEAL-LIP TYP

BUTTON PUSH

SPRING

SPACER

BEARING

BEARING

BEARING

0.30

2.42

68.92

21.70

38.12

59.64

69.36

3.87

2892073	FILM-CAT	1	13.8 Item 5.
5P6929	SCREW	1	2.8
7D9708	BOLT	1	27.34
1713759	SWITCH AS-LI	1	47.21
1772215	STRAP-DUAL C	10	32.90
3874488	HARNESS AS	1	239.83
7C4354 1P7326	CLIP WASHER	1	7.35
6V9325	SCREW	2 2	18.68
1305300	CLIP	1	1.18 16.64
4P7581	CLIP	1	5.08
2837245	COVER	1	29.16
4913721	CONT GP-XMSN	1	643.01
6V7687	LOCKNUT	1	2.40
8T0723	SETSCREW	2	4.38
4E8561	CAM	1	5.10
6L8598	RING-RETAINI	2	0.68
8C3442	SPRING	<u>1</u>	14.41
1516427	BEARING	2	14.48
1882048	KNOB	1	25.02
4D7794	CLIP	1	4.54
4E8560	KEY SQUARE	2	29.60
1271960	SCREW	4	12.84
2245775	VALVE GP	1	841.81
6V3965	NIPPLE A	1	26.72
2147568	SEAL-O RING	1	5.06
6V0852	CAP	1	5.29
8X3467	STUD A	2	46.92
8T4244	NUT	2	1.22
6V8397	SEAL	7	9.17
6J4568	BOOT	2	16.12
3D2824	SEAL-O-RING	2	4.00
2935263	SPRING	2	24.54
4475613 3S2093	SEAL LIP TYP TIE	2	26.86
3J1907	SEAL	10	2.60
3K0360	SEAL-O-RING	7 7	9.03
6V8398	SEAL O RING	10	10.22 13.40
7K1181	STRAP-CABLE	20	9.40
8T4121	WASHER	12	7.44
8T4224	WASHER	15	6.60
585-2503	VALVE GP-PIL	1	1,813.68
		•	1,010.00
		Total Estimated Parts:	5,387.57
		Segment 61 Total:	8,577.57
SEGMENT: 62	REPLACE HYDRAULIC HOSES/LINES		
0_0	NEI E ISE III BIO ISEIS PIOSES/EIIVES		
Don't M	Box of the		_
Part Number	Description	Qty	Ext Price
2048000	MOUNT-TIE WR	9	67.59
3589648	HOSE AS.	1	49.70
3589649	HOSE AS.	1	49.48
3722496	HOSE AS.	1	62.53
3722497	HOSE AS.	1	62.12
3722498	HOSE AS.	1	67.66
3722500	HOSE AS.	1	82.32
3756998	HOSE AS.	1	79.85
3756999	HOSE AS	1	81.30
3757000 3757010	HOSE AS.	1	81.70
3757010 3757003	HOSE AS. HOSE AS.	1	80.53
3757003	HOSE AS.	1 1	74.18 73.92
0707004	1,00L Au.	ı	13.32

3757005	HOSE AS.	1	69.43 Item 5
3757006	HOSE AS.	1	67.64 <i>nem s</i>
3757007	HOSE AS.	1	57.53
3785906	HOSE AS.	1	69.06
3785907	HOSE AS.	1	65.89
3789306	HOSE AS.	1	57.64
3821590	HOSE AS.	1	59.50
4271229	HOSE AS.	1	61.55
4271230	HOSE AS	1	69.32
1S6420	CLIP	1	9.58
2S7010	CLIP	1	26.87
3453753	MOUNT-DUAL T	5	89.75
5P9297	CLIP	4	25.08
6V8398	SEAL O RING	11	14.74
7S4244	CLIP	7	75.67
8M2773	CLIP	4	33.40
3757001	HOSE AS.	1	80.66
3159392	HOSE AS.	1	59.58
3159393	HOSE AS.	1	53.32
3755125	HOSE AS.	1	
3755126	HOSE AS.	1	531.18
			392.27
7G5986	GROMMET	1	72.91
5120667	HOSE AS.	1	119.11
4622058	HOSE AS.	1	61.96
3768012	HOSE AS.	1	80.40
3768050	HOSE AS.	1	137.11
5K9090	SEAL-O-RING	1	1.64
4622056	HOSE AS.	1	92.51
2006345	MOUNT-SWIVEL	1	6.44
5120668	HOSE AS.	1	206.03
3803467	HOSE AS.	1	343.82
3803468	HOSE AS.	1	341.54
3803469	HOSE AS.	1	485.02
3803470	HOSE AS.	1	363.47
1P3704	SEAL	4	12.64
4J0522	SEAL-O-RING	2	5.50
4J0524	SEAL-O-RING	1	3.32
4J5267	SEAL-O-RING	1	2.11
5P8112	GROMMET	1	29.97
6V0545	GROMMET	1	49.57
6V1874	GROMMET	1	36.82
6V7359	GROMMET	1	28.82
9D6196	CLIP	i	22.01
9D6197	CLIP	i	14.45
5401563	HOSE AS.	i	85.31
6V8178	WASHER 12MM	8	8.88
1P3703	SEAL	3	8.16
2042281	TIE-WRAP	35	72.80
4J0520	SEAL-O-RING	33	7.47
4K6177	CLIP	3 7	
5P8444	GROMMET	3	92.12
6V8397			137.46
	SEAL CLIP	16	20.96
8M2770		4	21.56
8T4121	WASHER	51	31.62
		Total Estimated Parts: Segment 62 Total:	5,886.05 11,686.05
SEGMENT: 63	REMV RECONDITION & INSTL PILOT CONTROL VALVE		
Part Number	Description	Qty	Ext Price
8T9655	MOUNT	8	22.24
3.0000	MOOITI	0	LL.24

9N0869	WASHER	4	2.8 Item 5.
6V0852	CAP	1	5.2
7M8485	SEAL	4	8.68
3D2824	SEAL-O-RING	4	8.00
6V8398	SEAL O RING	2	2.68
6V9746	SEAL O RING	5 5	7.45
5K9090	SEAL-O-RING	5	8.20
6V3965	NIPPLE A	1	26.72
2147568	SEAL-O RING	1	5.06
2P1293 2226713	LOCKNUT FILTER AS-SC	1	18.28
5F9144		2 2	269.46
1728591	SEAL-O-RING U-NUT	3	2.10
1405945	FILM	3 1	2.19 8.82
1892079	FILM CONTROL	1	9.06
2538798	KNOB	1	9.24
2809440	CUSHION AS	1	41.77
2908116	CUSHION AS	1	75.67
3886322	FILM-CONTROL	i	9.78
7X0578	WASHER	i	1.18
8R3695	GROMMET	2	12.18
6V3987	SEAL STK	1	5.15
2822034	CUSHION AS-R	1	103.48
2822036	CUSHION AS	1	120.61
2826689	COVER	1	20.35
2826691	COVER (RH)	1	20.27
2886308	KNOB AŠ.	2	207.00
1612398	SEAL-LIP TYP	2 2 2 2 2	68.92
2679555	BEARING	2	59.64
2679556	BEARING	2	69.36
6F9974	PLUG-CORE		8.38
2822033	BUTTON PUSH	1	3.87
2892073	FILM-CAT	1	13.88
7D9708	BOLT	1	27.34
1701821	SWITCH AS	1	118.04
2286089	PLUG-ROCKER	1	1.96
3695939 9M4972	HARNESS AS-I CLIP	1	578.08
3684535	SWITCH AS-RO	2 1	14.42 133.75
1126646	LOCKNUT	4	2.32
4574649	CONT GP-JOYS	1	527.86
9M4972	CLIP	1	7.21
20R7217	CONT GP-E	1	2,159.36
2826686	COVER	1	39.37
3S2093	TIE	10	2.60
1325789	CLIP	2	14.88
3J1907	SEAL	3	3.87
7K1181	STRAP-CABLE	25	11.75
8T4121	WASHER	12	7.44
8T4224	WASHER	5	2.20
		Total Estimated Parts:	4,910.21
		Segment 63 Total:	7,520.21
SEGMENT: 64	REMOVE & INSTALL STEERING CYLINDER		
Part Number	Description	Qty	Ext Price
2817610	BEARING-SLEE	4	225.92
3B8489	FITTING	4	8.92
1340165	WASHER	4	9.28
7X2548	BOLT	4	2.80
9J4782	PROTECTOR	2	1.46
			-

3722445 7X0492 4J5477 4526006	HOSE AS. ELBOW-90 SEAL-O-RING CAT PRIME APPL GRS	2 2 2 2	106.12 Item 5. 15.08 2.46 7.64
		Total Estimated Parts: Segment 64 Total:	379.68 1,829.68
SEGMENT: 65	RECONDITION/ REBUILD STEERING CYLINDER		
Part Number	Description	Qty	Ext Price
5K9090	SEAL-O-RING	4	6.56
7M8485	SEAL	4	8.68
1S3311	RING	4	78.64
2440972	KIT-SEAL-H.C	2	345.30
7J1309 8T-MISC	BEARING HARDWARE	4 2	722.96
61-WISC	HANDWARE	2	50.00
		Total Estimated Parts: Segment 65 Total:	1,212.14 3,242.14
SEGMENT: 66	REMOVE & INSTALL LIFT/HOIST CYLINDER		
Part Number	Description	Qty	Ext Price
1340165	WASHER	1	2.32
1506783	PIN AS	1	421.89
1605189	SPACER	2	135.34
7X2548	BOLT	1	0.70
3G0911	SHIM	28	110.04
4V1939	CLAMP	2	17.16
2600264	HARNESS AS	1	97.56
9X8256	WASHER	2	0.70
3722446	HOSE AS.	1	52.14
8C6865	CONNECTOR	1	7.02
6V9849 3B8489	ELBOW FITTING	1	9.84
4J5477	SEAL-O-RING	1	2.23
4526006	CAT PRIME APPL GRS	2 1	2.46
4320000	CAT FRIME AFFE GRO	•	3.82
		Total Estimated Parts: Segment 66 Total:	863.22 1,588.22
SEGMENT: 67	RECONDITION/ REBUILD LIFT/HOIST CYLINDER		
Part Number	Description	Qty	Ext Price
9X1386	CM SLEEVE ST	20	2.80
8T8737	PLUG	1	0.46
1022244	GROMMET	1	4.36
2141639	MAGNET-RING	1	56.25
0950879	PIN,SPRING	1	6.59
1S3311	RING	2	39.32
2349005	SENSOR GP-PO	1	1,475.91
3119316	SEAL AS-BUFF	1	40.19
1882199	SEAL-O-RING	1	11.21
2151942	RING-BACKUP	1	3.96
4392695	SEAL-MIDER	1	29.69
3119318 3V2431	SEAL-WIPER WASHER	1	34.87
4J4606	RING-WEAR	2 1	0.54
7J4000	MINO-VVEAN	ı	36.35

4T5173 5J3488 8C5245 8J1688 8J1689 1028804 8T5070 3J1907 2120907 7J1309 8T-MISC	SEAL NUT RING SEAL RING RECPTACLE KI SETSCREW SEAL PLATE-CONNEC BEARING HARDWARE	1 1 1 1 1 1 1 1 1 1 Total Estimated Parts: Segment 67 Total:	75.0 Item 5. 12.67 7.45 8.90 7.42 2.57 1.29 39.28 180.74 25.00 2,309.96 3,397.46
SEGMENT: 68	REMV RECONDITION & INSTLATTACHMENT (CYLINDER	
Part Number 2368937 3403643 6S9277 3J1907 6V8397 3B-4621	Description SEAL KIT CYL GP-0051- PIN SEAL SEAL COTTER PIN	Qty 3 1 8 8 8 8	Ext Price 361.08 3,610.54 69.36 10.32 10.48 2.08
		Total Estimated Parts: Segment 68 Total:	4,063.86 6,093.86
SEGMENT: 69	REMV RECONDITION & INSTL LOWERING CO.	NTROL VALVE	
Part Number 1321204 3J1907 6V8397 4341325 9X8256 3K0360 2694949 8T4121 4347554 2507662 6V3965 6V0852 2147568 3J7354 1209047 3682422 3474896	Description VALVE GP-CHE SEAL SEAL VALVE GP-PRE WASHER SEAL-O-RING ADAPTER-STC WASHER VALVE GP-D R VALVE GP-CHE NIPPLE A CAP SEAL-O-RING SEAL-O-RING SEAL KIT KIT-SEAL FILM-GUARD	Qty 1 2 12 1 2 4 8 10 4 8 8 2 4 1 Total Estimated Parts: Segment 69 Total:	91.63 2.58 15.72 259.98 0.70 5.84 179.44 6.20 928.84 489.84 213.76 42.32 40.48 2.32 152.48 98.52 26.96
SEGMENT: 70	REMOVE & INSTALL ROPS/FOPS CAB		0,002.01
Part Number R134ACAN 4861528 CH820 3868442 8T4121	Description 12OZ CAN R134A LUBRICANT CHMP 20 WASHERFLDG STRAP AS WASHER	Qty 4 1 1 1 6	55.96 11.64 3.73 47.69 3.72

			_	
8T4137	BOLT	1	0.59	Item 5.
9X2488	CLAMP	2	23.80	nem J.
1178131	MOUNT	8	481.84	
2042281	TIE-WRAP	10	20.80	
2048000	MOUNT-TIE WR	4	30.04	
6V1875	GROMMET	1	56.36	
8T4179	BOLT	1	0.85	
8T4223	WASHER	1	0.94	
			0,01	
		Total Estimated Parts:	737.96	
		Segment 70 Total:	1,897.96	
0504547 74	DECOMPLETON DEPUT DE DODO/ECDO CAR	-		
SEGMENT: 71	RECONDITION/ REBUILD ROPS/FOPS CAB			
Part Number	Description	Qty	Ext Price	
1056117	SWITCH AS	1	20.42	
1152247	SPRING	1	29.43	
1633926	ROLLER	1	17.45	
2002220	SEAL	1	42.21	
2661466	SENSOR GP	1	7.94	
	HARNESS AS	1	181.19	
3063011		1	20.28	
8T2899	SCREW	2	0.52	
1280607	SEAL	1	2.57	
1485581	INSULATOR	1	11.32	
1674348	SPRING	1	25.66	
2053582	ROLLER	1	40.81	
8\$2225	SEAL	1	7.45	
3063012	HARNESS AS.	1	180.58	
5M6755	SCREW	3	3.27	
4890312	SPRING AS-GA	1	54.07	
8T2444	STUD	2	10.50	
2521862	HANDLE AS	1	114.95	
2521863	GASKET	1	14.74	
4591210	COVER AS-LAT	1	341.70	
3765501	LATCH AS	1	108.19	
4188762	INSULATION	1	22.59	
2853692	SPACER	2	8.42	
0310249	NUT	1	0.35	
1178929	WASHER	1	0.59	
8Y6974	KNOB LATCH	2	2.12	
2492403	HANDLE AS	1	70.64	
3745333	LATCH AS	1	173.64	
4591207	COVER-LATCH	1	65.86	
3672481	CAP	2	3.64	
8T8549	NUT	2	3.52	
3472216	CABLE AS	2	773.42	
5586550	ANTENNA AS	1	189.91	
5181140	HARNESS AS	1	720.36	
3747468	CAP-SEAL	2	6.16	
4210290	GROMMET	1	6.58	
9U2331	ANTENNA A	1	16.37	
9U8263	COVER	1	4.45	
1244884	CABLE A	1	20.59	
1688772	SPEAKER AS	2	89.82	
2366253	GROMMET	1	13.15	
3420121	CLIP-TRIM	4	1.76	
3658363	BEZEL-RADIO	1	45.19	
3734446	PLUG	1	1.08	
9U2332	ANTENNA A	1	41.71	
1915114	CABLE AS-COA	1	27.02	
3038524	HARNESS AS.	1	148.73	
4661621	HOOK-COAT	2	89.54	

4222152	LOUVER AS	8	129.7 _{Item 5.}
1176838	STUD	1	55.3. <i>nem 3.</i>
1648473	LOUVER AS	6	105.96
2090746	STRAP	1	40.79
2346498	RIVET	6	3.00
2402169	RETAINER	2	6.86
3390965	STRAP	2 2	82.68
3402582	LINER-CUP HO	2	3.58
3419811	LINER-TRAY	1	8.56
3420064	NET AS	1	17.25
3719555	COVER AS	1	193.29
3719559	COVER AS	1	269.05
3719570	COVER	1	306.50
3719578	DUCT AS	1	115.45
3719582	DUCT AS-LH	1	130.69
3719586	DUCT AS-RH	1	131.16
3719587	DASH AS	1	116.80
3719591	HEADLINER AS	1	255.78
5328873	HEADLINER	1	98.53
3793471	COVER	1	242.49
3826956	FLOORMAT-FRO	1	249.68
3826957	FLOORMAT-REA	1	117.24
3829323	COVER-REAR L	1	129.52
3857190	FLOORMAT	1	28.04
5331589	DUCT	1	61.00
4246355	STORAGE AS-N	1	21.35
4354863	TRAY	1	112.91
4929134	BEZEL-SWITCH	1	7.76
4591202	COVER-POST	1	34.39
4591203	COVER AS-REA	1	95.00
4591204	COVER AS-LOW	1	149.55
4591205	PANEL-INSTR	1	55.32
4591206	COVER-FUSE	1	74.27
4591208	PANEL AS-SWI	1	231.20
4591209	COVER AS-CON	1	211.96
4591211	COVER AS-UPP	1	255.63
4604676	DUCT AS	1	107.63
1042091	SCREW	40	52.80
2001131	SCREW-TRUSS	7	15.19
2V2015	NUT	1	2.50
8T4222	WASHER	3	4.11
9V3940	RETAINER	1	0.44
1487361	CM TAPE	5	3.50
1487362	CM TAPE	5	3.50
2194361	CM FLEX TUBI	125	141.25
5P5639	SEAL STOCK	2	25.00
2843953	SEAL	35	11.20
8Y4512	MIRROR	1	140.09
1871878	WASHER-PIVOT	2	11.00
5P4116	WASHER	3	1.74
3338153 4437474	CONN GP-ELEC	1	389.54
	HARNESS AS	1	237.08
4568327	CABLE AS	1	145.63
2584379	KNOB AS.	2	35.92
2012733 2190305	FILM INPUT/O	2	17.48
2241943	FILM-WARN(NO	1	10.06
4484480	FILM-ALT EXI	1	9.91
4303908	FILM-A/C FILM-FUSE PA	1 4	9.40
4303906	FILM-FUSE PA	1	21.85
2997880	FILM-NO STEP	1	21.85
3450351	FILM	1	10.92 11.24
4699071	FILM-WIPER C	1	11.77
700001 I	I ILIVI-VVII LIN O	ı	11.77

3832159	FILM-BREATHE	1	10.7 Item 5.
4853739	FILM-ROPS/FO	1	10.01
2367230	TAG-FRAME LO	1	3.28
8C3210	BOLT	3	0.60
	PLUG	7	76.65
8P6364			
4847866	CLIP-FIR TRE	17	84.15
1292584	HANDLE	1	164.56
6G2914	LATCH	2	37.14
5P5637	METER-SEAL STOCK	2	10.54
4211287	SEAT GP-SUSP	1	5,244.55
8T4186	BOLT	4	4.36
5287196	BELT GP-SEAT	1	304.20
3799703	VISOR AS	1	208.45
5P6605	M-SEAL STK	15	277.80
3V3263	CONNECTOR	2	6.76
6V7419	BLADE A	1	50.42
7Y3474	VALVE A	2	8.38
8T5400	CONNECTOR	1	4.37
1276509	ARM AS-WIPER	1	56.57
	MOTOR GP	1	
2120211		1	339.77
2147635	ARM GP-WIPER	1	224.09.
2266545	BLADE AS]	21.15
3815456	MOTOR GP-WIP	1	269.38
3808464	BOTTLE GP-WA	1	101.57
1440195	BULK HOSE CM	750	82.50
7X7927	CM TAPE	31	4.65
7X7928	CM TAPE	31	4.65
3E6328	ALARM GP	1	59.61
3V4694	PLUG BUTTON	1	0.53
4559568	CAP AS	1	71.03
1138490	FUSE	40	52.40
1138491	FUSE	24	31.44
1138492	FUSE-MINI	3	3.93
1239694	HORN	1	61.22
1353311	RESISTOR AS	1	20.74
1394724	BREAKER A	1	56.10
1878675	GASKET - JCT	1	18.70
2309174	BREAKER AS-C	2	106.76
2418368	SWITCH AS-MA	2	603.54
2421555	PULLER AS-FU	2 2	17.08
2482841	RELAY AS	15	739.65
2552752	SWITCH AS-ST	1	142.24
2717312	KNOB	4	124.88
		1	49.54
2727239	BLOCK AS	4	
2802709	BREAKER AS.		35.84
2802710	BREAKER AS	1	9.09
3303356	BUSS BAR	1	23.77
3370313	GASKET	1	19.13
3381128	LAMP GP	2 2	106.90
3407161	CONVERTER-PO		785.04
3521145	DIODE	7	135.10
3575020	BUS BAR	1	83.14
3634995	RESISTOR	2	54.72
3634996	RESISTOR	2	69.26
3695931	CABLE AS	1	57.24
3695944	HARNESS AS	1	87.50
3824473	SWITCH AS	1	262.04
3989395	HARNESS AS	1	252.61
3989399	CABLE AS	1	59.21
3989400	BUS BAR	1	120.19
3989401	BUS BAR	1	126.17
5301772	HARNESS AS	1	788.38
5443522	HARNESS AS	1	7,676.64
		•	.,

0950736	SCREW	1	0.94 _{Item 5.}
1305300	CLIP	1	16.64
1305301	CLIP	3	63.63
1325789	CLIP	1	7.44
1341374	BOLT	4	9.40
2364623	SWITCH AS-RO	1	37.86
2430774	SWITCH AS-RO	1	37.86
2511195	SWITCH AS	1	37.86
2843623	SWITCH AS.	1	37.86
2843665	SWITCH AS-RO	1	37.86
3675213	SWITCH AS-RO	1	37.86
3620169	CONT GP	1	501.88
4P7428	CLIP	1	7.27
4P7581	CLIP	4	20.32
6V7699	WASHER	4	1.04
7U4892	SCREW	<u>6</u>	7.74
7X0608	WASHER	7	2.45
7Y7388	SCREW	8	17.28
2512031	SWITCH AS	1	37.86
2643617	LOCKWASHER	3	5.19
9N0869	WASHER	8	5.60
1342540	RECEPTACLE	3	54.51
3498642	MICROPHONE	1	73.98
3531634	HARNESS AS	1	20.19
1365490	BUSHING-RADI	1	3.10
2005728	HARNESS AS-R	3	43.16
3070047	FILM	1	9.29
2140647	MIRROR AS	2	232.78
1465804	HORN AS	1	1,340.84
2313930	RELAY AS	1	35.40
4625392	HARNESS AS	6	137.47
2286089	PLUG-ROCKER	1	11.76
3848361 4213095	MODULE GP-KE BEZEL-SWITCH	2	379.77 564.48
3276999	SWITCH AS-RO	1	37.86
7Y3173	SCREW	8	17.12
7X0579	WASHER	32	26.24
494-8027	PLATE AS	1	41.08
525-1508	RADIO GP-AM/	1	175.03
583-8197	CABLE AS	1	8.61
585-1577	RADIO GP-AM/	1	404.93
219-6487	LAMP GP-FLOO	4	228.36
219-6485	LAMP GP-FLOO	2	114.18
8T-4121	WASHER	8	4.96
20R-8444	CONT GP -B	1	1,684.29
8T-MISC	HARDWARE	10	250.00
3S2093	TIE	140	36.40
0093101	RING-SNAP	5	1.75
1107524	BUTTON	46	48.76
1146658	WASHER	51	17.85
1219870	SCREW	11	23.21
1253295	SCREW	4	4.20
1728591	U-NUT	45	32.85
2149186	BUTTON	43	15.05
3453155	CM SEAL-BULK	1,000	200.00
4592220	CONT GP	2	8,061.58
4E9664	PIN	2	37.74
7K1181	STRAP-CABLE	200	94.00
8C5607	MOUNT	16	41.76
8T0328	WASHER	8	2.08
8T4121	WASHER	62	38.44
8T4181	BOLT	7	2.38
8T4205	WASHER	15	5.25

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8T4224 9U4431	WASHER MOUNT ANTENN	7 2	3.0 <i>Item 5.</i>
9X2038	WASHER	26	12.22
9X6165	WASHER	8	5.60
9X8256	WASHER	27	9.45
487-6510	SWITCH AS-WI	1	210.46
525-8896	HARNESS AS	1	60.16
596-1139	PEDAL AS	1	415.88
SEBU8778	OPER MAINT (BOOK)	1	88.89
SENR5664	SERVIE MAN (BOOK)	1	177.77
SEBP5755	PARTS MANUAL (CD)	1	249.45
RC-1401	SAFETY MAN (BOOK)	1	17.46
3264249	GLASS-LH DOO	1	324.53
4622753	GLASS-RH	1	491.18
3793972	GLASS-REAR	1	361.58

 Total Estimated Parts:
 47,841.10

 Segment 71 Total:
 65,603.60

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SEGMENT: 72 RECONDITION/ REBUILD HEATER& AIR CONDITIONER

Part Number	Description	Qty	Ext Price
9X2038	WASHER	14	6.58
5017878	GROMMET	1	0.00
2336131	SENSOR GP-TE	1	99.91
2566454	SENSOR GP TM	2	108.78
2719408	SCREW-TRUSS	1	1.06
3551791	VALVE AS	1	134.62
3615586	BLOWER AS	i	712.18
3997837	KIT GASKET	ĺ	125.64
3997844	STRAP-CABLE	ĺ	20.06
4211021	HARNESS AS	1	193.98
2088469	NUT	3	1.50
3113520	SCREW-HEX HD	25	21.00
6V9824	RING	2	7.84
8T0337	SCREW	6	2.64
3235864	VALVE	2	27.54
2678575	DM BULK TUBE	15	15.90
2756710	RETAINER	2	2.06
3869513	DUCT	1	42.83
4875662	SEAL	1	22.17
4875663	SEAL	1	8.32
8D3932	MOUNTING	4	159.44
1975470	GROMMET	4	42.52
4468433	COVER	1	1,194.13
1340165	WASHER	8	18.56
5P4116	WASHER	1	0.58
3V4694	PLUG BUTTON	2 2	1.06
3E5239	RELAY A	2	70.80
2032070	MOUNT	8	52.88
3255753	HARNESS AS	1	150.31
2D6403	PIN-SPIRAL	1	0.73
3812491	FAN AS	2	427.02
1P6522	GROMMET	1	17.96
7X0578	WASHER	4	4.72
8T4205	WASHER	10	3.50
5P5924	M SEAL STK	2 2	30.74
5P5672	SEAL STOCK	2	17.48

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5P5908	SEAL STOCK	2	34.92 Item 8
1496371	SWITCH AS	1	117.5 d
5901978	COUPLING	1	135.07
5901980	COUPLING	1	244.13
3551793	DRYER	1	210.40
3553148	SWITCH AS	1	86.52
4490203	HOSE AS	1	67.89
4843047	HOSE AS-HYBR	1	263.86
4910947	HOSE AS	1	183.28
1309984 2M1444	CLIP-LOOP SCREW	3	50.94
3139198	CLIP-LOOP	4 1	1.04 23.97
4491473	HOSE AS	1	25.97 266.01
4D7733	CLIP	5	52.00
410472	CLIP	2	9.86
5P4295	CLIP	1	9.48
6D4246	CLIP	4	24.64
8T4224	WASHER	1	0.44
9M7959	CLAMP	2	12.48
9X7378	SEAL	2	4.22
2971546	CLIP	1	4.93
1783620	STRAP-DUAL C	5	29.40
4657630	VALVE GP-ACT	1	301.28
5191974	HOSE AS	1	319.06
5191973	HOSE AS	1	415.47
3366482	CLIP	1	29.39
3366483	CLIP-LOOP	5	139.15
1V1122	TAG	2	6.10
1V1123	TAG	2	6.10
3E4321	CLIP	3	18.09
5781844 7X0579	FILTER-CAB A WASHER	1 4	71.65
3S2093	TIE	10	3.28 2.60
590-1979	COUPLING	10	153.90
590-1981	COUPLING	1	253.88
1591503	CLAMP	6	64.44
1783336	NUT-HEX FLAN	6	2.46
3270282	SEAL-INTEGRA	8	93.04
3270283	SEAL-INTEGRA	4	46.64
5P0767	CM-HOSE STK	1,500	225.00
6D4244	CLIP	4	29.76
8M2773	CLIP	2	16.70
8T4121	WASHER	40	24.80
9X2488	CLAMP	6	71.40
		Total Estimated Parts:	7,874.27
		Segment 72 Total:	12,514.27
SEGMENT: 73	REPLACE WITH NEW BEACON/STROBE LIGHT		
Part Number	Description	Qty	Ext Price
8T4205	WASHER	2	0.70
371-2241	LAMP GP-BASI	1	440.00
		Total Estimated Parts:	440.70
		Segment 73 Total:	513.20
SEGMENT: 76	REMV RECONDITION & INSTL CAB AIR PRESSURIZER		
Part Number	Description	Qty	Ext Price
2215377	HARNESS AS.	1	67.53
		•	01.00

75

Item 5

Part Number Description Only Ext Price 3325854 SHIM 8 449,92 1146858 WASHER 24 8,40 5P7483 M-SEAL STK 6 136,02 1774122 CM BULK SEAL 350 38,50 3W3110 PIN 2 1,149 9X2299 LATCH 1 123,30 2V3726 BUMPER 12 78,88 6S8251 MOUNT 6 219,54 6S8251 MOUNT 6 219,54 6S8251 MOUNT 6 219,55 7X0579 WASHER 4 3,28 8T-MISC HARDWARE 10 250,00 30202887 PAD-WEAR 2 483,10 4355200 BEARING GP-A 2 40,11,88 5P4116 WASHER 12 7,44 81721 WASHER 12 7,44 81721 WASHER 12 7,44 81724				Item 5
1146658	Part Number	Description	Qty	Ext Price
5P7483 M-SEAL STK 6 136.02 1774122 CM BULK SEAL 3500 38.50 3W3110 PIN 2 1.94 9W2299 LATCH 1 1.23.30 2V3726 BUMPER 12 78.36 6K6251 MOUNT 6 2.19.54 6C7390 RIVET-POP 12 35.52 7X0579 WASHER 4 3.28 7X0579 WASHER 4 3.28 8T-MISC HARDWARE 10 250.00 3202887 PAD-WEAR 2 483.10 4355200 BEARING GP-A 2 4011.88 5P4116 WASHER 3 1.74 6V2370 RIVET 60 129.60 7X2393 BUMPER 3 4.01 8T4121 WASHER 12 7.44 8T7547 BOLT 8 4.54 8T4121 WASHER 12 7.44 8T4121 WASHER<	3325854	SHIM		449.92
1774122				
3W3110				
SYZ299				
2V3726 BUMPER				
SSE251				
SC7390 RIVET-POP 12 35.52 XX0579 WASHER 4 3.28 XX0579 WASHER 4 3.28 XX0579 WASHER 4 3.28 XX0579 WASHER 10 250.00 3202987 PAD-WEAR 2 483.10 32520 3202987 PAD-WEAR 2 483.10 3455200 BEARING GP-A 2 4.011.88 5P4116 WASHER 3 4.011.88 5P4116 WASHER 3 4.011.88 3 44.01 37.2370 RIVET 60 129.60 XX2373 BUMPER 3 44.01 XX34121 WASHER 12 7.44 XX34121 WASHER 12 7.44 XX34121 WASHER 12 7.44 XX34121 WASHER 12 7.44 XX34121 X				
TX0579				
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				
2020887	7X0579	WASHER		
### SECONDITION REBUILD BODY PANEL Part Number Description Descri				250.00
6P4116 WASHER 3 1,74 6V22370 RIVET 60 129.60 7X2393 BUMPER 3 44,01 8T4121 WASHER 12 7,44 Total Estimated Parts: 6,030,47 Segment 84 Total: 11,830,47 SEGMENT: 85 RECONDITION/ REBUILD BODY PANEL Part Number Description Qty Ext Price 3764447 INSULATION 1 558,71 3659138 INSULATION 1 447,90 9W99331 MOUNT AS 4 288,76 3659109 INSULATION 2 665,54 3659101 INSULATION 1 775,23 3659102 INSULATION 2 340,88 3659103 INSULATION 1 572,67 3713318 INSULATION 1 572,67 3713318 INSULATION 2 417,46 8T4121 WASHER 2 1,24 <td></td> <td></td> <td>2</td> <td></td>			2	
SV2370				
TX2393				
### RT4121 WASHER ### BOLT ###				
BOLT BOLT BOLT BOLT BOLT Color C				
Total Estimated Parts: Segment 84 Total: 11,830.47				
Segment 84 Total: 11,830.47 SEGMENT: 85 RECONDITION/ REBUILD BODY PANEL Part Number Description Qty Ext Price 3764447 INSULATION 1 558.71 3659138 INSULATION 1 447.90 9W9931 MOUNT AS 4 288.76 3659099 INSULATION 2 665.54 3659100 INSULATION 1 775.23 3659101 INSULATION 2 340.88 3659102 INSULATION 1 572.67 3713318 INSULATION 2 417.46 8T4121 WASHER 2 1.24 7K1181 STRAP-CABLE 5 2.35 3714166 INSULATION 2 400.04 1J2919 COTTER PIN 2 10.58 4E6015 PIN 2 358.40 3415201 DM SEAL BULK 20 174.80 6V8798 RIVET-POP 20 45.20 9X82		552.	Ü	4,04
Part Number Description Qty Ext Price 3764447 INSULATION 1 558,71 3659138 INSULATION 1 447.90 9W9931 MOUNT AS 4 288,76 3659999 INSULATION 2 665.54 3659100 INSULATION 1 775.23 3659101 IINSULATION 2 340.88 3659102 INSULATION 1 572.67 3713318 INSULATION 2 417.46 8T4121 WASHER 2 1.24 7K1181 STRAP-CABLE 5 2.35 3714166 INSULATION 2 400.04 1,22919 COTTER PIN 2 400.04 1,22919 COTTER PIN 2 358.40 3415201 DM SEAL BULK 20 174.80 6V8798 RIVET-POP 20 45.20 9X8256 WASHER 1 0.35 117647 SPRING 1 11.54 <th></th> <th></th> <th></th> <th></th>				
Part Number Description Qty Ext Price 3764447 INSULATION 1 558.71 3659138 INSULATION 1 447.90 9W9931 MOUNT AS 4 288.76 3659099 INSULATION 2 665.54 3659100 INSULATION 1 775.23 3659101 INSULATION 2 340.88 3659102 INSULATION 1 572.67 3713318 INSULATION 2 417.46 814121 WASHER 2 1.24 7K1181 STRAP-CABLE 5 2.35 3714166 INSULATION 2 400.04 1J2919 COTTER PIN 2 400.04 4E015 PIN 2 358.40 3415201 DM SEAL BULK 20 174.80 6V8798 RIVET-POP 20 45.20 98256 WASHER 1 0.35 1154968 BUSHING 2 34.10 <th></th> <th></th> <th>Segment 84 Total:</th> <th>11,830.47</th>			Segment 84 Total:	11,830.47
3764447 INSULATION 1 558.71 3659138 INSULATION 1 447.90 9W9931 MOUNT AS 4 288.76 3659099 INSULATION 2 665.54 3659100 INSULATION 1 775.23 3659101 INSULATION 2 340.88 3659102 INSULATION 1 572.67 3713318 INSULATION 2 417.46 8T4121 WASHER 2 1.24 7K1181 STRAP-CABLE 5 2.35 3714166 INSULATION 2 400.04 1J2919 COTTER PIN 2 400.04 1J2919 COTTER PIN 2 358.40 3415201 DM SEAL BULK 20 174.80 6W798 RIVET-POP 20 45.20 9X8256 WASHER 1 0.35 1154968 BUSHING 2 34.10 1171647 SPRING 1 11.54	SEGMENT: 85	RECONDITION/ REBUILD BODY PANEL		
3764447 INSULATION 1 558.71 3659138 INSULATION 1 447.90 9W9931 MOUNT AS 4 288.76 3659099 INSULATION 2 665.54 3659100 INSULATION 1 775.23 3659101 INSULATION 2 340.88 3659102 INSULATION 1 572.67 3713318 INSULATION 2 417.46 8T4121 WASHER 2 1.24 7K1181 STRAP-CABLE 5 2.35 3714166 INSULATION 2 400.04 1J2919 COTTER PIN 2 400.04 1J2919 COTTER PIN 2 358.40 3415201 DM SEAL BULK 20 174.80 6W798 RIVET-POP 20 45.20 9X8256 WASHER 1 0.35 1154968 BUSHING 2 34.10 1171647 SPRING 1 11.54				
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9W9931 MOUNT AS 4 288.76 3659099 INSULATION 2 665.54 3659100 INSULATION 1 775.23 3659101 INSULATION 2 340.88 3659102 INSULATION 1 572.67 3713318 INSULATION 2 417.46 8T4121 WASHER 2 1.24 7K1181 STRAP-CABLE 5 2.35 3714166 INSULATION 2 400.04 1J2919 COTTER PIN 2 400.04 4L2919 COTTER PIN 2 358.40 3415201 DM SEAL BULK 20 174.80 6V8798 RIVET-POP 20 45.20 9K8256 WASHER 1 0.35 1V8732 HANDLE 1 29.80 1154968 BUSHING 2 34.10 1171647 SPRING 1 11.54 2076514 SPACER 8 694.16				
3659101 INSULATION 2 340.88 3659102 INSULATION 1 572.67 3713318 INSULATION 2 417.46 8T4121 WASHER 2 1.24 7K1181 STRAP-CABLE 5 2.35 3714166 INSULATION 2 400.04 1J2919 COTTER PIN 2 10.58 4E6015 PIN 2 358.40 3415201 DM SEAL BULK 20 174.80 6V8798 RIVET-POP 20 45.20 9X8256 WASHER 1 0.35 1V8732 HANDLE 1 29.80 1154968 BUSHING 2 34.10 1171647 SPRING 1 11.54 2076514 SPACER 8 694.16 2468370 GROMMET 3 45.99 5H3193 PIN-SPRING 2 4.40 384630 COTTER PIN 1 0.38 465-659			4	288.76
3659101 INSULATION 2 340.88 3659102 INSULATION 1 572.67 3713318 INSULATION 2 417.46 8T4121 WASHER 2 1.24 7K1181 STRAP-CABLE 5 2.35 3714166 INSULATION 2 400.04 1J2919 COTTER PIN 2 10.58 4E6015 PIN 2 358.40 3415201 DM SEAL BULK 20 174.80 6V8798 RIVET-POP 20 45.20 9X8256 WASHER 1 0.35 1V8732 HANDLE 1 29.80 1154968 BUSHING 2 34.10 1171647 SPRING 1 11.54 2076514 SPACER 8 694.16 2468370 GROMMET 3 45.99 5H3193 PIN-SPRING 2 4.40 384630 COTTER PIN 1 0.38 465-659			2	
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1154968 BUSHING 2 34.10 1171647 SPRING 1 11.54 2076514 SPACER 8 694.16 2468370 GROMMET 3 45.99 5H3193 PIN-SPRING 2 4.40 3B4630 COTTER PIN 1 0.38 465-6593 LATCH AS 1 39.10 8T-MISC HARDWARE 10 250.00 3260610 LATCH AS 5 763.70 5P4115 WASHER 8 3.60 5P7483 M-SEAL STK 6 136.02 6V2370 RIVET 60 129.60 8T4222 WASHER 24 32.88				
1171647 SPRING 1 11.54 2076514 SPACER 8 694.16 2468370 GROMMET 3 45.99 5H3193 PIN-SPRING 2 4.40 3B4630 COTTER PIN 1 0.38 465-6593 LATCH AS 1 39.10 8T-MISC HARDWARE 10 250.00 3260610 LATCH AS 5 763.70 5P4115 WASHER 8 3.60 5P7483 M-SEAL STK 6 136.02 6V2370 RIVET 60 129.60 8T4222 WASHER 24 32.88				
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3B4630 COTTER PIN 1 0.38 465-6593 LATCH AS 1 39.10 8T-MISC HARDWARE 10 250.00 3260610 LATCH AS 5 763.70 5P4115 WASHER 8 3.60 5P7483 M-SEAL STK 6 136.02 6V2370 RIVET 60 129.60 8T4222 WASHER 24 32.88				
3B4630 COTTER PIN 1 0.38 465-6593 LATCH AS 1 39.10 8T-MISC HARDWARE 10 250.00 3260610 LATCH AS 5 763.70 5P4115 WASHER 8 3.60 5P7483 M-SEAL STK 6 136.02 6V2370 RIVET 60 129.60 8T4222 WASHER 24 32.88			3	
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8T-MISC HARDWARE 10 250.00 3260610 LATCH AS 5 763.70 5P4115 WASHER 8 3.60 5P7483 M-SEAL STK 6 136.02 6V2370 RIVET 60 129.60 8T4222 WASHER 24 32.88				
3260610 LATCH AS 5 763.70 5P4115 WASHER 8 3.60 5P7483 M-SEAL STK 6 136.02 6V2370 RIVET 60 129.60 8T4222 WASHER 24 32.88				
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5P7483 M-SEAL STK 6 136.02 6V2370 RIVET 60 129.60 8T4222 WASHER 24 32.88			ე დ	
6V2370 RIVET 60 129.60 8T4222 WASHER 24 32.88				
8T4222 WASHER 24 32.88				

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Total Estimated Parts:

76

7,287.31

		Segment 85 Total:	10,187.3 Item 5.
SEGMENT: 86	REMOVE & INSTALL BLADE		
Part Number	Description	Qty	Ext Price
0930349	WASHER	2	12.94
1509632	PIN AS	2	1,107.24
1512413	SPACER	4	249.36
1512414	SPACER	14	423.50
8T4780	BOLT	2	6.58
		Total Estimated Parts: Segment 86 Total:	1,799.62 2,669.62
SEGMENT: 87	RECONDITION/ REBUILD BLADE		
Part Number	Description	Qty	Ext Price
4T3420	CUTTING EDGE	3	491.88
4T6505	END BIT *	1	102.14
4T6506	END BIT *	1	102.14
4T8797	CUTTING EDGE	2	389.68
2J3505	NUT	41	111.52
6F0196	BOLT-PLOW	41	118.90
9J0123	TRUNNION	1	587.58
8T-MISC	HARDWARE	4	100.00
		Total Estimated Parts: Segment 87 Total:	2,003.84 3,743.84
SEGMENT: 88	PAINT MACHINE		
Part Number	Description	Qty	Ext Price
3498603	FILM	2	18.12
3760455	FILM-WARNING	4	47.56
3760456	FILM-WARNING	1	11.89
3760457	FILM-WARNING	3	35.67
3760458	FILM-WARNING	2	18.48
3760460	FILM-WARNING	4	38.12
7K1181	STRAP-CABLE	1	0.47
5558447	TAG-WARNING	1	3.28
5041365	FILM	2 2	18.70
3498604 1P2807	FILM-FUEL (U FILM	2	18.12
7X3229	FILM	2 2	8.02 25.60
1181225	FILM-XMSN	1	8.82
1905386	FILM SAFETY	2	22.42
1633119	PLATE IDENT	<u>-</u>	24.59
1347258	FILM	1	8.82
3344603	FILM-HYDO	1	3.10
4258663	FILM-BELT RO	1	13.62
2817268	FILM-ENGINE	1	19.40
8T7038	FILM	1	11.35
2250312	FILM-WARNING	1	10.45
2254257	FILM-WARN HO	2 2	18.74
2261240	FILM-WARN CR		26.44
2261274	FILM-WARN CR	1	13.22
2277391	FILM-WARN SE	1	10.45
2282616 2367227	FILM-WARN UN	1	10.66
7.5h / 77 /	FILM-WARN PA	1	16.35

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2376256	FILM	2	19.5 Item 5.
2607653	FILM WARN	1	10.4
3586729	FILM-WARN	1	10.31
3644012 2367230	FILM-WARN TAG-FRAME LO	1 1	10.60
5837941	ARTWORK AS	1	3.28 229.67
5714652	FILM-CAT		137.28
5890659	FILM-836K	2 2	68.96
4199735	RETAINER	4	1.88
8T-MISC	HARDWARE	43	1,075.00
€	MISC	1	20.57
		Total Estimated Parts:	2,050.00
		Segment 88 Total:	17,875.00
CECMENT, 00	INCTALL AVEC CHARD	3	,
SEGMENT: 89	INSTALL AXLE GUARD		
Part Number	Description	Qty	Ext Price
	•		
560-0101	GUARD KT	1	3,515.26
8T-MISC	HARDWARE	4	100.00
		Total Estimated Parts:	3,615.26
		Segment 89 Total:	5,935.26
SEGMENT: 90	REPLACE GREASE LINES	•	-,
SEGWENT. 90	REPLACE GREAGE LINES		
Part Number	Description	Qty	Ext Price
3722447	TUBE AS		
3722448	TUBE AS	1 1	212.70 147.44
3722449	TUBE AS	1	113.39
3722451	TUBE AS	1	184.89
3722452	TUBE AS	1	186.93
3722453	TUBE AS	1	185.30
7M8322	CLIP	3	38.13
8M2770	CLIP	2	10.78
8T4133 8T4136	NUT BOLT	3 2 2 4 2 2	0.88
5P5461	NUT	2	2.96 2.92
5P5463	ADAPTER	2	11.16
3785718	TUBE AS		85.66
3785719	TUBE AS	1	85.66
3785726	TUBE AS	1	139.96
3785727	TUBE AS	1	93.79
3785728	TUBE AS	1	136.29
4J5477 5K2298	SEAL-O-RING CLIP	14	17.22
8C6865	CONNECTOR	8 5	40.88 35.10
8M2772	CLIP	6	27.24
8T4121	WASHER	20	12.40
8T4137	BOLT	14	8.26
4526006	CAT PRIME APPL GRS	4	15.28
		Total Estimated Parts:	1,795.22
		Segment 90 Total:	2,375.22
SEGMENT: 91	REPLACE REAR GUARD		
Part Number	Description	24	gua pui
	Description	Qty	Ext Price
1154968	BUSHING	2	34.76
1171647 1887270	SPRING PIN AS	1 2	11.77
1001210	FIN AG	2	136.28

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Issued PO#:			
"The signature	•	ne required repair work as described wi	ithin the quote"
·			
Terms: Net 30	re applicable are not included with the above pri		
	expire 30 days from the estimate date. Teight Charges, Operating Supplies/EPA Fees ar	nd Overtime.	
SUB TOTAL (P	BEFORE TAXES)		741,802.37
		Total Segments:	741,802.38
		Segment 97 Total:	42,610.00
SEGMENT: 97	ADD EXTENTED WARRANTY		
		Total Estimated Parts: Segment 91 Total:	8,526.82 11,070.82
002-1320	BOLT-NEX NEA		
303-9441 362-1320	BOLT-HEX BOLT-HEX HEA	8 10	51.84 16.70
5198945	PLATE	1	129.58
3B4630	COTTER PIN	1	0.38
8T4137	BOLT	2	1.22
7X7729	WASHER	2	2.10
7X2554	BOLT	8	39.44
7X0515	WASHER WASHER	12	2.17 29.88
7X3391 6V8237	WASHER HARD	10 1	26.40
5H3193	PIN-SPRING	2	4.52
8T7338	BOLT	4	12.88
5198948	GUARD AS	1	3,768.34
5198943	HINGE AS	2	381.14
2577983	ROD	1	294.07
5198942 2468370	BRACKET GROMMET	2 3	243.50 46.92
5198947	SUPPORT	1	311.50
5198946	SUPPORT	1	304.02
5198941	SUPPORT AS	1	977.62
5198944	SUPPORT AS	1	900.20
2076514	SPACER	8	707.92
2044470	HANDLE AS.	1	73.39



80



Estimate No:123127 - 5

AUGUSTA, GEORGIA 530 GREENE ST PURCHASING DEPT ROOM 105 AUGUSTA 30911-4406

CUSTOMER NO.	ESTIMATE NO.	DATE	CONTACT
901240	123127	4/24/2023	
PHONE NO.	FAX NO.		EMAIL
1			
MODEL	MAK	ELDE BEERLE	SERIAL NO.
836K	AA		0TWZ00712
UNIT NO.	HOURS	WO NO.	P.O. NO.
218324	8715		
STIMATE DESCRIPTION:	TWZ00712 OUT OF SCOPE		

SEGMENT: A3	ADDITIONAL CHARGES TORQUE CONVERTER		
SEGMENT: A4	ADDITIONAL CHARGES TRANS & TRANFER GEARS	Segment A3 Total:	2,300.75
SEGMENT: A5	ADDITIONAL CHARGES AXLE ARRANGEMENT REAR	Segment A4 Total:	6,695.34
SEGMENT: A6	ADDITIONAL CHARGES AXLE ARRANGEMENT FRONT	Segment A5 Total:	9,845.92
SEGMENT: C1	INSTALL FIRE SUPPRESSION SYSTEM	Segment A6 Total:	28,764.68
SEGMENT: C2	REPLACE WITH NEW HOSES& LINES	Segment C1 Total:	28,152.50
SEGMENT: C3	REPLACE WITH NEW BODY PANEL	Segment C2 Total:	26,152.40
SEGMENT: C4	REPLACE WITH NEW CLEANER BAR	Segment C3 Total:	53,674.52
SEGMENT: C5	REPLACE RADIATOR & OIL COOLER	Segment C4 Total:	9,530.00
SEGMENT: C6	REPLACE LADDER/STEP	Segment C5 Total:	24,585.96
SEGMENT: C7	REMOVE FASTENERS, CONN & HARDWR	Segment C6 Total:	5,208.20
		Segment C7 Total:	5,977.69
SEGMENT: C8	STRAIGHTEN BODY PANEL	Segment C8 Total:	5,075.00

SEGMENT: C9 REPLACE WITH NEW BOTTOM GUARD Segment C9 Total: 14,546.68 SEGMENT: CA ADDITIONAL CHARGES HITCH Segment CA Total: 3,339.33 SEGMENT: CB ADDITIONAL CHARGES BLADE Segment CB Total: 751.08 SEGMENT: CD ADDITIONAL CHARGES CAB Segment CD Total: 2,468.22 SEGMENT: CE WELD/LINE BORE LOADER FRAME BORE Segment CE Total: 4,125.00 SEGMENT: H1 ADDITIONAL CHARGES HYDRAULIC CYLINDERS Segment H1 Total: 2,716.11 SEGMENT: M1 ADDITIONAL CHARGES MACHINE Segment M1 Total: 362.50 SEGMENT: M2 WELD/LINE BORE BLADE Segment M2 Total: 4,375.00 SEGMENT: M3 ADDITIONAL CHARGES MACHINE Segment M3 Total: 1,160.00 SEGMENT: P1 ADDITIONAL CHARGES HYDRAULIC CONTROL VALVE Segment P1 Total: 241.20 SEGMENT: Z1 ADD MARKETING PROGRAM Segment Z1 Total: -68,007.60 SEGMENT: Z2 ADD DISCOUNT PARTS ONLY Segment Z2 Total: -28,279.81 **Total Segments:** 143,760.67 SUB TOTAL (BEFORE TAXES) 143,760.67 -This estimate will expire 30 days from the estimate date. -Price excludes Freight Charges, Operating Supplies/EPA Fees and Overtime. -Terms: Net 30 -Sales Taxes where applicable are not included with the above prices. **ESTIMATED REPAIR TIME:** from start date "The signature is an authorization to proceed with the required repair work as described within the quote" Issued PO#: ______ Please Print Signature

Item 5.

AUGUSTA, GEORGIA 123127 - 5 Page 2 81

Any questions? Please call Jamie Brantley at Office: (706) 790-1300 Mobile: Fax: Branch:



Commission Meeting

Meeting Date: July 11, 2023

Barton Chapel Road @ Gordon Hwy Improvements Project

GDOT PI#0012868

File Reference: 23-014 (A)

Department: Engineering & Environmental Services

Presenter: Dr. Malik Hameed, Director

Caption: Approve entering into an agreement with Georgia Power (GP), stating that

the City of Augusta will pay for the GP Facility Relocation Cost on Barton

Chapel Road @ Gordon Hwy Intersection Improvements Project in accordance with the GP estimate totaling \$7,800.00. Also, approve the Utility Relocation Agreement to be executed by the Augusta, Georgia Legal Counsel and the Mayor, and approve payment as requested by Augusta

Engineering.

Background: The Project is one of three traffic flow operational efficiency of various

intersections and listed in the Augusta Metropolitan Planning Organization (MPO) TIP. Project funding is 80/20 federal funded cost sharing project. The purpose of this project is gaining operation efficiency by widening of the intersections to allow for left turn lane. Roadway improvements require

relocation of Georgia Power facilities.

Analysis: The Barton Chapel Road @ Gordon Hwy Intersection Improvements Project

will require that Georgia Power Company relocate some facilities and

Augusta would be required to enter into an agreement that Augusta will share approximately 9.93% of the estimate cost of relocation, which is \$7,800.00. This is a cost that is required to be paid by the Augusta to complete needed

improvements.

Financial Impact: Funds in amount of \$7,800 available in Engineering SPLOST 8-Traffic

Operations.

Alternatives: Do not approve and abandon the project

Recommendation: Approve entering into an agreement with Georgia Power (GP), stating that

the City of Augusta will pay for the GP Facility Relocation Cost on Barton

Chapel Road @ Gordon Hwy Intersection Improvements Project in accordance with the GP estimate totaling \$7,800.00. Also, approve the Utility Relocation Agreement to be executed by the Augusta, Georgia Legal Counsel and the Mayor, and approve payment as requested by Augusta

Engineering

Item 6.

Engineering SPLOST 8-Traffile

Funds are available in (\$7,800) 330-041110 – 222830904

the following accounts: Operations

REVIEWED AND HM/SR

APPROVED BY:



June 15, 2023

City of Augusta Hameed Malik, Director of Engineering Department of Engineering Administration 452 Walker Street, Suite 110 Augusta, GA 30901

Re: PI# 0012868 - CR1502/BARTON CHAPEL RD @ SR 10/US 78 ("Project")

Dear Dr. Malik:

Please find enclosed a Relocation Agreement with respect to the above-referenced project. As you will note in the Relocation Agreement, the total estimated cost for the relocation of the distribution facilities associated with the Project is \$78,553.00 (the "<u>Total Estimate</u>"). In accordance with the Franchise Agreement between Georgia Power Company and the City, the City must bear nine and ninety-three hundredths' percent (9.93%) of the estimated cost of relocation, which is \$7,800.00 (the "<u>Reimbursement Cost</u>").

Both the total estimated cost for relocation and the "<u>Reimbursement Cost</u>" are valid only for a period of one (1) year following the date set forth on the enclosed estimate. Further, Georgia Power will not commence any work unless, prior to the date that is one (1) year following the date set forth on the enclosed estimate, the City executes and returns the enclosed Relocation Agreement and authorizes commencement of the work.

If you have any questions, please contact Jason Eddie at (706) 589-0657.

Sincerely,

Monica R. Kimber

M_RK__

mrkimber@southernco.com

Please sign the agreement and send the electronic copy to the email address below:

Monica R. Kimber (mrkimber@southernco.com)

After agreements have been executed by Georgia Power Company, we will email a copy to you for your records.

Please remit any payments to the address below:

Georgia Power Company

96 Annex

Atlanta, GA 30396-0001

(Attn: Ayannes Stodghill)

Please reference invoice and or PI# number on check.

UTILITY RELOCATION AGREEMENT

P	ROJECT NAME:	CR1502/BARTON	<u>CHAPEL RD @</u>	<u> </u>
P	ROJECT NUMBER	: 0012868		_
G	DOT PROJECT NU	MBER:		_

THIS AGREEMENT is made and entered into as of the ____day of ______, 20___, by and between CITY of AUGUSTA, State of Georgia (hereinafter referred to as the "City"), and GEORGIA POWER COMPANY (hereinafter referred to as the "Company"). This Agreement may refer to either City or Company, or both, as a "Party" or "Parties."

WITNESSETH:

WHEREAS, the City proposes under the above written Project to construct CR1502/BARTON CHAPEL RD @ SR 10/US 78 (hereinafter referred to as the "Project"); and

WHEREAS, due to the construction of the Project, it will become necessary for the Company to remove, relocate or make certain adjustments to the Company's existing facilities (such facilities, including but not limited to overhead and underground electric transmission, distribution and communication lines, towers, frames, poles, facilities, wires, transformers, service pedestals, apparatus, manholes, conduits, fixtures, appliances, cables, protective wires and devices all being hereinafter referred to collectively as the "Facilities" or individually as the "Facility"); and

WHEREAS, the Company, as hereinafter provided, may assert that it has certain property interests and rights and utilized such property interests and rights for the placement of its Facilities prior in time to City's acquisition of the road right(s)-of-way, all as involved in said Project; and

NOW, THEREFORE, in consideration of the promises and the mutual covenants of the Parties hereinafter set forth and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by the Parties, the Parties agree as follows:

Section 1 THE WORK

1.1 <u>Company Facilities</u>

Company, with its regular construction or maintenance crews and personnel, at its standard schedule of wages and working hours (as may be applicable from time to time during the term of this Agreement), and working in accordance with the terms of its agreements with such employees, will remove, relocate or make adjustments to its Facilities in accordance with the scope of work and Estimate (defined below) attached hereto as <a href="Exhibit "A" and incorporated herein by reference (the "Work"). Company shall make all technical decisions concerning the Work and may elect to contract any portion of the Work.

1.2 Road Right-of-Way

Prior to Company commencing the Work, City will provide written assurances to Company that it has acquired the necessary new road right-of-way (including information on the property rights acquired).

1.3 **Traffic Control**

Company shall make a reasonable effort to provide signing and other traffic control measures during the Work, in accordance with PART VI of the U. S. Department of Transportation Manual on Uniform Traffic Control Devices, current edition, all at the expense of the City.

Section 2 COSTS AND PAYMENT

PI# 0012868

2.1 Compensable Property Interests

Company shall perform the Work in accordance with the estimate attached hereto as Exhibit "A" and incorporated herein by reference (the "Total Estimate"). The total amount of the Total Estimate is SEVENTY-EIGHT THOUSAND, FIVE HUNDRED FIFTY-THREE Dollars (\$78,553.00). The amount of the Total Estimate that corresponds to Company's claim that it has compensable property interests with respect to the Project (the "Reimbursement Claim") is SEVEN THOUSAND, EIGHT HUNDRED Dollars (\$7,800.00), otherwise reflected as nine and ninety-three hundredths percent (9.93%) of the Total Estimate. Reimbursement Claim is limited to: (a) the costs of removing, relocating or adjusting those Facilities which are physically in place and in conflict with the proposed construction and/or maintenance; (b) where replacement is necessary, the costs of replacement in kind, and any improvements or betterments made necessary by the proposed construction and/or maintenance; and (c) the costs incurred in acquiring additional easements or private rights-of-way, including without limitation easements for lines, access, tree trimming, guy wires, anchors and other devices, appliances and other equipment, and any and all other such easements and property rights as may be reasonably necessary for the Company's installation, operation and maintenance of its Facilities (collectively, the "Relocation Costs").

The cost of any improvements or betterments that are not made necessary by the proposed construction or maintenance shall not be subject to the percentage split contemplated above. Such costs shall be paid as follows: (a) the costs of any improvements or betterments of a Facility being made solely at Company's option (and not being made necessary by the proposed construction and/or maintenance) shall be fully paid by Company; and (b) the costs of any improvements or betterments of a Facility being made solely at City's request (and not being made necessary by the proposed construction and/or maintenance) shall be fully paid by City.

Upon completion by Company of the Work and subject to determination of Company's Prior Rights Claim in accordance with <u>Sections 3 and 4</u> below, City will pay Company a sum equal to the lesser of (a) SEVEN THOUSAND, EIGHT HUNDRED Dollars (\$7,800.00), otherwise reflected as **nine and ninety-three hundredths percent** (9.93%) of the Total Estimate and representing the aforementioned Reimbursement Claim, or (b) the corresponding

percentage of actual Relocation Costs representing Company's compensable property interests with respect to the Project. City will also pay Company for the costs of any improvements or betterments of a Facility being made solely at City's request and not being made necessary by the proposed construction and/or maintenance.

2.2 **Progress Payments**

If Company chooses to submit invoices for progress payments, City will pay same within thirty (30) days from receipt of the invoice, subject to Verification (as defined below) thereof by the City. Upon completion of the Work, Company shall submit a final bill to City and City shall make a final payment within thirty (30) days from receipt of the final bill, subject to Verification thereof by the City.

2.3 **Change in Scope**

In the event there is a change in the Project, including without limitation a change in scope, design, plans, service, property interests to be acquired, engineering or costs, due to either (a) events or circumstances beyond Company's reasonable control, or (b) City's request, the Parties will negotiate in good faith a mutually acceptable agreement or amendment to this Agreement, in writing, to address such change and any increase in costs above those set forth in the Estimate.

Section 3 DETERMINATION OF COMPENSABLE PROPERTY INTEREST

- 3.1 If Company determines it has compensable property interests with respect to the Project, Company will submit a Reimbursement Claim. The Parties agree that they will in good faith share non-privileged information with each other related to the issue of prior rights for the Project. If City determines that Company's evidence is insufficient to make a determination as to Company's compensable property interests and the percentage of the Relocation Costs to be paid by Company based upon such compensable property interests, City will provide Company with a written basis for such insufficiency and request that Company provide additional information. City will make a determination as to any asserted Reimbursement Claim before the earlier of: (a) the date that is thirty (30) days after receipt of the Reimbursement Claim; and (b) the date on which Company needs to commence the Work in order to prevent a Project delay (the "Commencement Date").
- 3.2 In the event that a determination cannot reasonably be made prior to the Commencement Date, provided that City certifies in writing to Company that the Project is time-sensitive due to construction scheduling with the possibility of damages for delay, safety concerns, or critical funding deadlines, Company will commence the Work without a written determination having been made. In such case, the Party's rights, claims and defenses with regard to the issue of compensable property interests and prior rights will not be waived or affected in any manner. If City does not thereafter make a determination regarding the Reimbursement Claim within six (6) months from the date of City's receipt of same, the Reimbursement Claim will be deemed approved by City.

Section 4 DISPUTE RESOLUTION

4.1 **Disagreement**

If Company disagrees with City's determination with regard to the Reimbursement Claim and the Parties are unable to settle the issue through informal negotiations, then, at the request of either Party, the Parties agree to escalate the matter pursuant to <u>Section 4.2</u> below.

4.2 **Dispute Notice**

Except as otherwise set forth in this Agreement, any controversy or claim arising out of or relating to this Agreement, or the breach thereof, will be settled: (a) first, by good faith efforts to reach mutual agreement of the Parties; and (b) second, if mutual agreement is not reached within thirty (30) calendar days of a written request by a Party to resolve the controversy or claim (the "Dispute Notice"), each of the Parties will appoint a designated representative who has authority to settle the dispute (or who has authority to recommend to the governing body of such Party a settlement of the dispute) and who is at a higher level of management than the persons with direct responsibility for administration of this Agreement. The designated representatives will meet as often as they reasonably deem necessary in order to discuss the dispute and negotiate in good faith in an effort to resolve such dispute. The specific format for such discussions will be left to the discretion of the designated representatives, provided, however, that all reasonable requests for relevant information made by one Party to the other Party will be honored if such information is reasonably available. If within sixty (60) days after issuance of a Dispute Notice (a) the Parties are unable to resolve issues related to the dispute, or (b) City fails to approve any tentative agreement reached, the Parties agree to participate in confidential, non-binding mediation pursuant to Section 4.3 below, it being understood, however, that nothing herein will diminish or relieve either Party of its rights or obligations under this Section 4.

4.3 **Mediation**

If the Parties are unable to resolve a dispute through informal negotiations or pursuant to Section 4.2, the Parties agree to participate in confidential, non-binding mediation by an impartial, third party mediator mutually agreed upon by the Parties, at a mutually convenient location. The Parties agree that a potential mediator's experience in prior rights and real estate law will be relevant factors in selecting a mediator. In the event the Parties are unable to agree on a third party mediator within ninety (90) days of issuance of the Dispute Notice, each Party shall designate a mediation representative, and the two mediator representatives shall in good faith select a third party mediator. Each Party shall be responsible for its own attorneys' fees and expenses and for providing its own information and documentation applicable to the dispute to the mediator. All other agreed upon costs of the mediation will be apportioned equally to each Party. Any dispute not resolved by negotiation, escalation or mediation may then be submitted to a court of competent jurisdiction, and either Party may invoke any remedies at law or in equity. Nothing contained herein, however, will preclude the Parties from first seeking

temporary injunctive or other equitable relief. The Parties agree that any statute of limitations, equity or other time-based periods shall be tolled as of and from the date of the Dispute Notice until a complaint, if any, is filed.

Section 5 VERIFICATION

5.1 **Material Discrepancy**

For purposes of this <u>Section 5</u>, "<u>Verification</u>" means that City has reasonably determined that there is a material discrepancy between Company's invoiced charges and City's calculation of charges owed, which invoiced charges are subject to a bona fide dispute; provided, however, City agrees to provide the Company with written notice, including supporting documentation, illustrating the basis for such bona fide dispute, within sixty (60) days of receipt of the invoice in dispute. Should City fail to provide such documentation within the specified time period, City must pay the disputed amount. City must pay any undisputed portion of the invoice total within thirty (30) days after its receipt of the invoice. City must pay any disputed portion of the invoice total within thirty (30) days of the date the dispute is resolved, to the extent the dispute is resolved in favor of Company.

5.2 Audit

At any time within thirty-six (36) months after the date of final payment, City, at its sole expense, may audit the non-privileged cost records, support documentation and accounts of Company pertaining to this Project to solely assess the accuracy of the invoices submitted by Company and notify Company of any amount of any unallowable expenditure made in the final payment under this Agreement, or, if no unallowable expenditure is found, notify Company of that fact in writing. Any such audit will be conducted by representatives of City or, if applicable, the Georgia Department of Transportation or the Federal Highway Administration, after reasonable advance written notice to Company and during regular business hours at the offices of Company in a manner that does not unreasonably interfere with Company's business activities and subject to Company's reasonable security requirements. As a prerequisite to conducting such audit, City or, if applicable, the Georgia Department of Transportation or the Federal Highway Administration, will sign Company's Nondisclosure Agreement. Company may redact from its records provided to City information that is confidential and irrelevant to the purposes of the audit. Company will reasonably cooperate in any such audit, providing access to Company records that are reasonably necessary to enable City to test the accuracy of the invoices to which the audit pertains, provided that City or, if applicable, the Georgia Department of Transportation or the Federal Highway Administration, may only review, but not copy, such records. Company agrees with the audit results and does not pay any such bill within ninety (90) days of receipt of the bill from City (based on the mutually agreed upon audit results), City may set off the amount of such bill against the amounts owed Company on any then-current contract between Company and City. If, following the audit, the Parties are unable to resolve any dispute concerning the results of the audit through informal negotiation, the provisions of Sections 4.2 and 4.3 will govern the resolution of the dispute. City may not perform an audit pursuant to this Agreement more frequently than once per calendar year and may not conduct audits twice within any six (6) months.

Section 6 Buy America

In accordance with the BUY AMERICA requirements of the Federal regulations (23 U.S.C. 313 and 23 CFR 635.410) all manufacturing processes for steel and iron products or predominantly of steel or iron (at least 90% steel or iron content) furnished for permanent incorporation into the work on this project shall occur in the United States. The only exception of this requirement is the production of pig iron and the processing, pelletizing and reduction of iron ore, which may occur in another country. Other than these exceptions, all melting, rolling, extruding, machining, bending, grinding, drilling, coating, etc. must occur in the United States.

- a) Products of steel include, but are not limited to, such products as structural steel piles, reinforcing steel, structural plate, steel culverts, guardrail steel supports for signs, signals and luminaires, and cable wire/strand. Products of iron include, but are not limited to, such products as cast iron frames and grates and ductile iron pipe. Coatings include, but are not limited to, the applications of epoxy, galvanizing and paint. The coating material is not limited to this clause, only the application process.
- b) A Certificate of Compliance shall be furnished for steel and iron products as part of the backup information with the billing. The form for this certification entitled "Buy America Certificate of Compliance" is attached to this agreement as "Exhibit B".
 Records to be maintained by the City and the Georgia Department of Transportation Office of Utilities for this certification shall include a signed mill test report and a signed certification by each supplier, distributor, fabricator, and manufacturer that has handled the steel or iron product affirming that very process, including the application of a coating performed on the steel or iron product has been carried out in the United States of America, except as allowed by this Section. The lack of these certifications will be justification for rejection of the steel and/or iron product or nonpayment of the work.
- c) The requirements of said law and regulations do not prevent the use of miscellaneous steel or iron components, subcomponents and hardware necessary to encase, assemble and construct the above products, manufactured products that are not predominantly steel or iron or a minimal use of foreign steel and iron materials if the cost of such materials used does not exceed one-tenth of one percent (0.1%) of the total contract price or \$2,500.00, whichever is greater.

Section 7 CITY AS PARTY

City acknowledges that this Agreement is "proprietary" in nature under applicable Georgia law, as permitted by O.C.G.A. § 36-60-13(j), and not "governmental" or "legislative," as prohibited by O.C.G.A. § 36-30-3(a). City further represents and warrants that this Agreement will comply with all applicable laws concerning City actions and approvals and execution of binding agreements. City covenants to undertake all actions necessary to bind City.

Section 8 COMMENCEMENT AND TERMINATION CONDITIONS

Company is not obligated to commence the Work until Parties agree on the removal, relocation and/or adjustment to Company's facilities required by the Project. If City fails to authorize

commencement of the Work by June 15, 2024, Company will have no obligation to begin the Work and may terminate this Agreement without penalty by providing City with notice in writing. If City fails to sign and return this Agreement to Company by June 15, 2024, any offer made by Company pursuant to the Agreement is automatically revoked and the agreement is void and of no effect.

Section 9 MISCELLANEOUS PROVISIONS

Duplicate originals of this Agreement will be executed, each of which will be deemed an original but both of which together will constitute one and the same instrument. This Agreement may be modified only by an amendment executed in writing by a duly authorized representative for each Party. This Agreement contains the entire agreement of the Parties, and all prior oral agreements are superseded and integrated into this Agreement. This Agreement will be governed by and construed in accordance with the laws of the State of Georgia. This Agreement shall accrue to the benefit of and be binding upon the successors and assigns of the Parties. The Parties agree that this Agreement shall be deemed to have been executed in Georgia.

[SIGNATURES ON THE FOLLOWING PAGE]

IN WITNESS WHEREOF, the Parties have executed this Contract in four (4) counterparts, each of which shall be deemed an original in the year and day first above mentioned.

ATTEST:	City of Augusta, GEORGIA	
By:		
Title:	By: Mayor	
Witness:	(SEAL)	
Notary:(SEAL)		
	Approved as to Form by:	
	City of Augusta Department of Transportation	
ATTEST:	GEORGIA POWER COMPANY	
By:		
Title:	By:	
Witness:	Title: Centralized Engineering Svcs Manager	
	Date:	
Notary:		
(SEAL)		

[Give proper title of each person executing Agreement. Attach seal as required.]

DOT Prior Rights Research PI# 0012868 CR 1502/Barton Chapel Road @ SR 10/US 78 Richmond County

Prior rights research for the above project is complete. A thorough search has been performed in the Georgia Power Company LIMS GIS database, on the Richmond County Tax Assessors website on GDOT's Trans PI Website and on the GSCCCA.org website by GMD, property owners and address. The project is located in the 119th GMD of Richmond County, Georgia. Roads involved are CR 1502/Barton Chapel Road and SR 10/US 78 a/k/a Gordon Highway.

Distribution Base Map: 1086-1166

Transmission:

The Dum Jon – Fort Gordon #12 115 KV Transmission Line is within the project area. However, no structures or facilities were requested for research at this time.

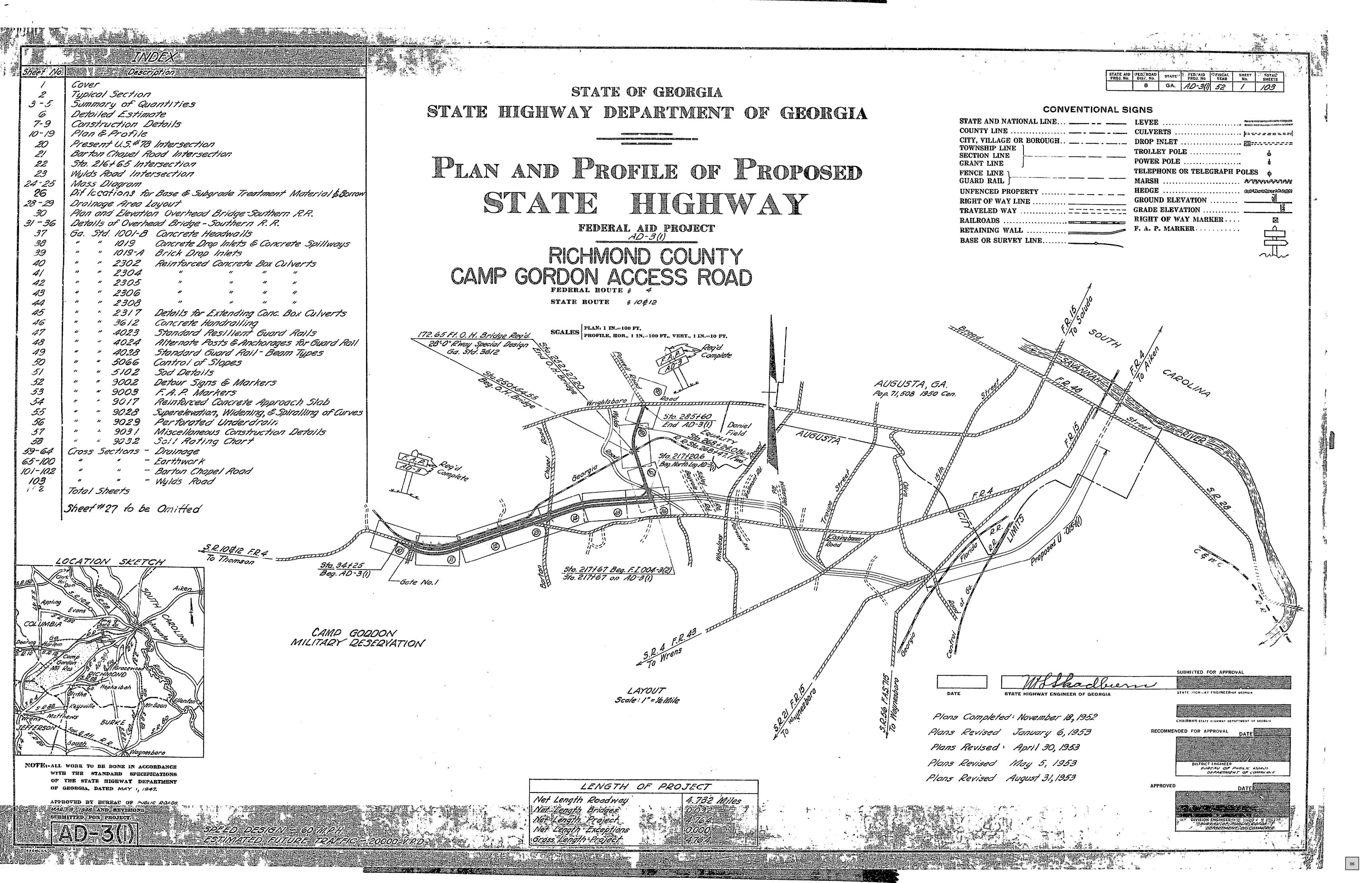
Distribution:

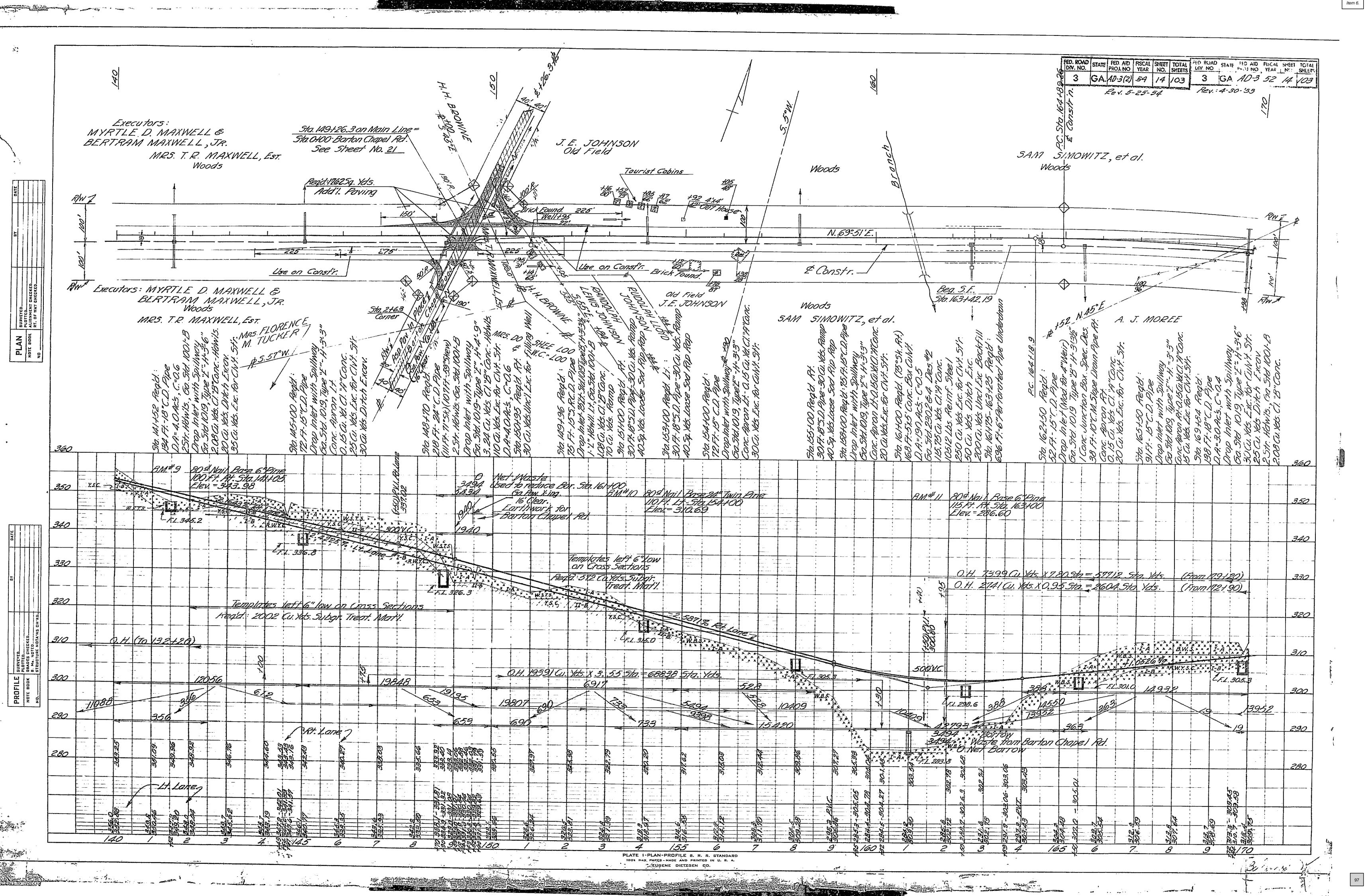
Easements for the Augusta – Milledgeville Road were acquired by Georgia Power Company during the late 1930's and early 1940's. The easements acquired from Mrs. T. R. Maxwell (PSN# 222065), dated 4/11/41 and from H. H. and Ethel E. Brown (PSN# 222066), dated 3/21/41 cover the locations affected by this project and are shown on the attached GDOT Plans for project # H019242, sheet 14, dated 1952.

Distribution lines and facilities were constructed outside of State Road and County Road Right of Way. We found no evidence that the State or the County owned any Right of Way prior to the placement of the reimbursable locations for the distribution lines and facilities in the project area.

Item 6.

			EXHIBIT "A"				
Richmond County							
			CR 1502/Barton Chapel Road @ SR 10/US 78				
			PI# 0012868				
			November 15, 2021				
Work Loc #	Work Lii C						
Sheet	24-0	001					
5	Х		To/From Location from Location #8				
Sheet	Sheet 24-0002						
6	Easement from Mrs. T. R. Maxwell (PSN# 222065), dated 4/11/41. Also see attached GDOT plans for project H019242, sheet 14, dated 1952.						
7	Easement from H. H. & Ethel E. Browne (PSN# 222066), dated 3/21/4. Also see attached GDOT plans for project H019242, sheet 14, dated 1952						
8	Easement from Mrs. 1. R. Maxwell (PSN# 222065), aatea 4/11/41. Also see attached GDOT plans for project H019242, sheet 14,						
9	х		Easement from Mrs. T. R. Maxwell (PSN# 222065), dated 4/11/41. Also see attached GDOT plans for project H019242, sheet 14, dated 1952.				
Sheet	24-0	005					
13	Х		To/From Location from Location #9				





Q. NO.	Form 2-424-80M-10-30-80 121-707	PSN# 222065 Locations 5.6.	Name of Line Cury	usta-Milledy	ltem 6.
	STATE OF GEORGIA,	8,9 & 13 EASEM L. F	_	80#6164	6
-	Richmond COUNT	Y. M. F.		531	9-10 - 1
	Received of Georgia	Power D.F	Company, hereinafter called	the Company, the sum of	ŧ .
# 	One and no/1.0	00		•	
	the undersigned, Mrs. E.F	R. Maxwell	, wl	nose Post Office Address is	,
	Augusta Ga.,		nd convey to said Company, it	s successors and assigns	•
	the right, privilege and easement to	go sist, upon, along	along The	wned by the padersigned	i
, ÷	in Land Lot Number	of the	19 G.M. District,	Section	1
· .	of Richmond	County, S	tate of Georgia, said lands bei	ng bounded on the North	
	by lands of	uk halle		on the South by lands of	
	Dr. J. L. Noward	,, on the	East by lands of Jul.	Zenk halter	The

together with the right to construct, operate and maintain continuously upon said land, its lines (erected on poles) for transmitting electric current, with poles, wires and other necessary apparatus, fixtures and appliances, including the right to stretch communication wires on said poles, with necessary appliances; with the right to permit the attachment of the wires and appliances of any other company, or person, to said poles; together with the right at all times to enter upon said premises for the purpose of inspecting said lines, making repairs, renewals, alterations and extensions thereon, thereto or therefrom; together with the right to cut away and keep clear of said lines all trees and other obstructions that may now or hereafter in any way interfere or be likely to interfere with the proper operation of said lines. Any timber cut on said land by or for said Company shall remain the property of the owner of said timber.

The undersigned does not convey any land, but merely grants the rights, privileges and easements hereinbefore set out.

IN WITNESS WHEREOF, the said Mrs. T.R. Maxwell has hereunto set has hand and seal , this day of april , 194/

Said Company shall not be liable for, or bound by, any statement, agreement or understanding not herein

Mrs. 7. R. Maxwell (SEAL)

Signed, sealed and delivered in the presence of:

.....(SEAL)

.....(SEAL)

DEED BOOK

PAGE 43 98

Notary Public. State at Large. Georgia.

	Name of Line Lugusta-Mul
SEO. NO. 12/- 708	Account No.
	T A CEMENT

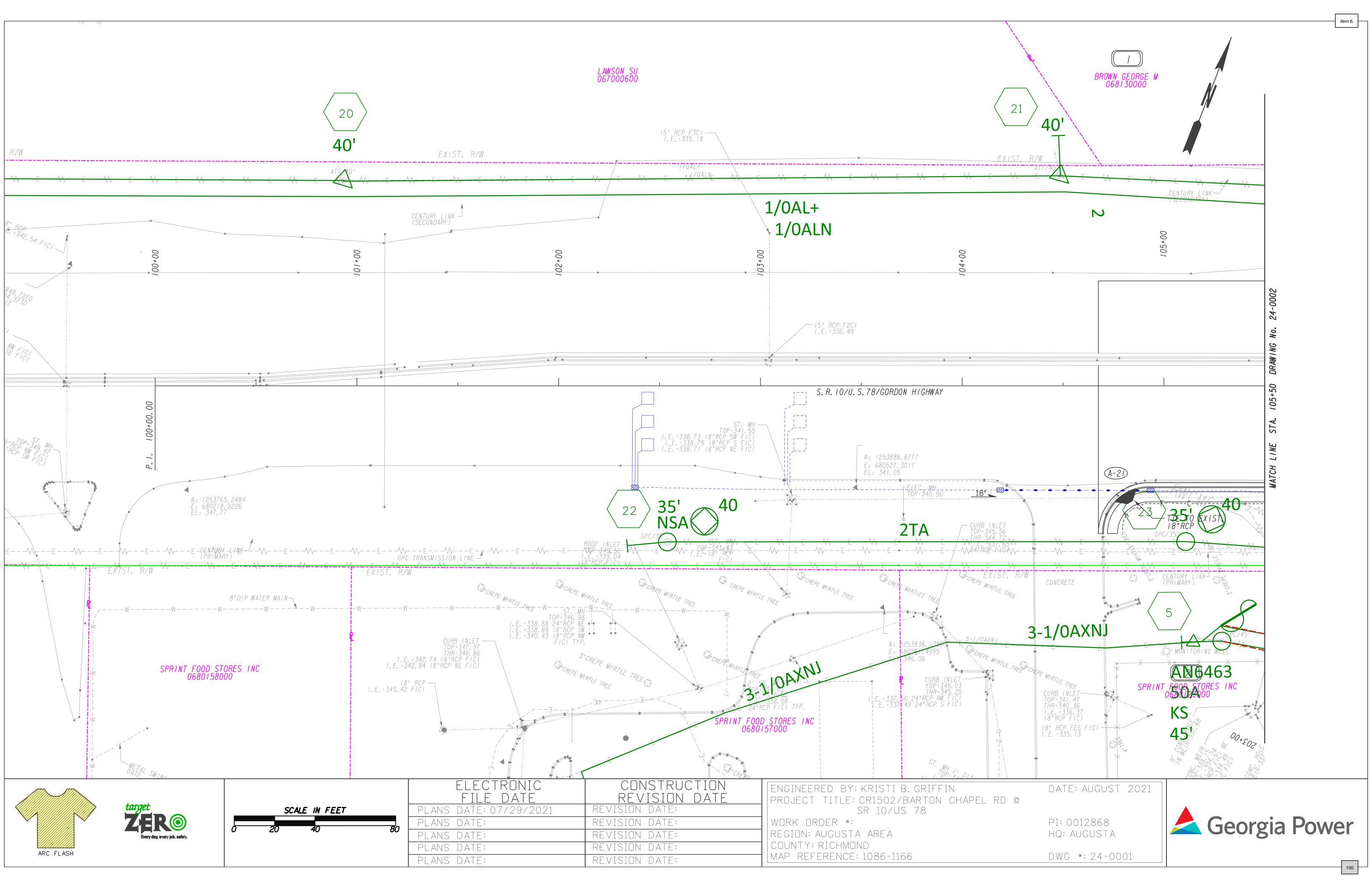
Form 2-43490M10-20-20	Location #7	Name of Line Augusta	-Milleder de 18
121-708		Account No.	Item
STATE OF GEORGIA,	EASEME LF 6 = 2	09	53 19- 1
Richmond COUN	TY. M. F	-11/30 \$	6/66
Received ofGeorgia	D. F	.Company, hereinafter called the Con	mpany, the sum of
One and no/1	.00	Dollars (\$	ideration of which
the undersigned, H. H. Br	cown E "of Lette	1 6 Drowne, whose Pos	st Office Address is
Augusta Ga.	, do.23. hereby grant and	d convey to said Company, its succe	ssors and assigns,
the right, privilege and easement to	go in, upon, along and	across that tract of land owned b	y the undersigned
in Land Lot Number	of the]	19 G.M. District,	Section
of Richmond by lands of Allorgia		ate of Georgia, said lands being bou	aded on the North
mas 9 K. Maxnell	l , on the	East by lands of Barta Cha	South by lands of
		Mrs. J.R. Ma Lwell	
tegether with the right to construct, of transmitting electric current, with peright to stretch communication wires ment of the wires and appliances of a to enter upon said premises for the psions thereon, thereto or therefrom; other obstructions that may now or to said lines. Any timber cut on said timber.	operate and maintain cont oles, wires and other neces on said poles, with neces any other company, or per ourpose of inspecting said together with the right thereafter in any way inter I land by or for said Com	inuously upon said land, its lines (enessary apparatus, fixtures and appliants sary appliances; with the right to poson, to said poles; together with the lines, making repairs, renewals, altero cut away and keep clear of said largere or be likely to interfere with the apany shall remain the property of	ected on poles) for nces, including the permit the attach- right at all times erations and exten- lines all trees and e proper operation the owner of said
The undersigned does not conv	vey any land, but merely	grants the rights, privileges and ea	sements hereinbe-

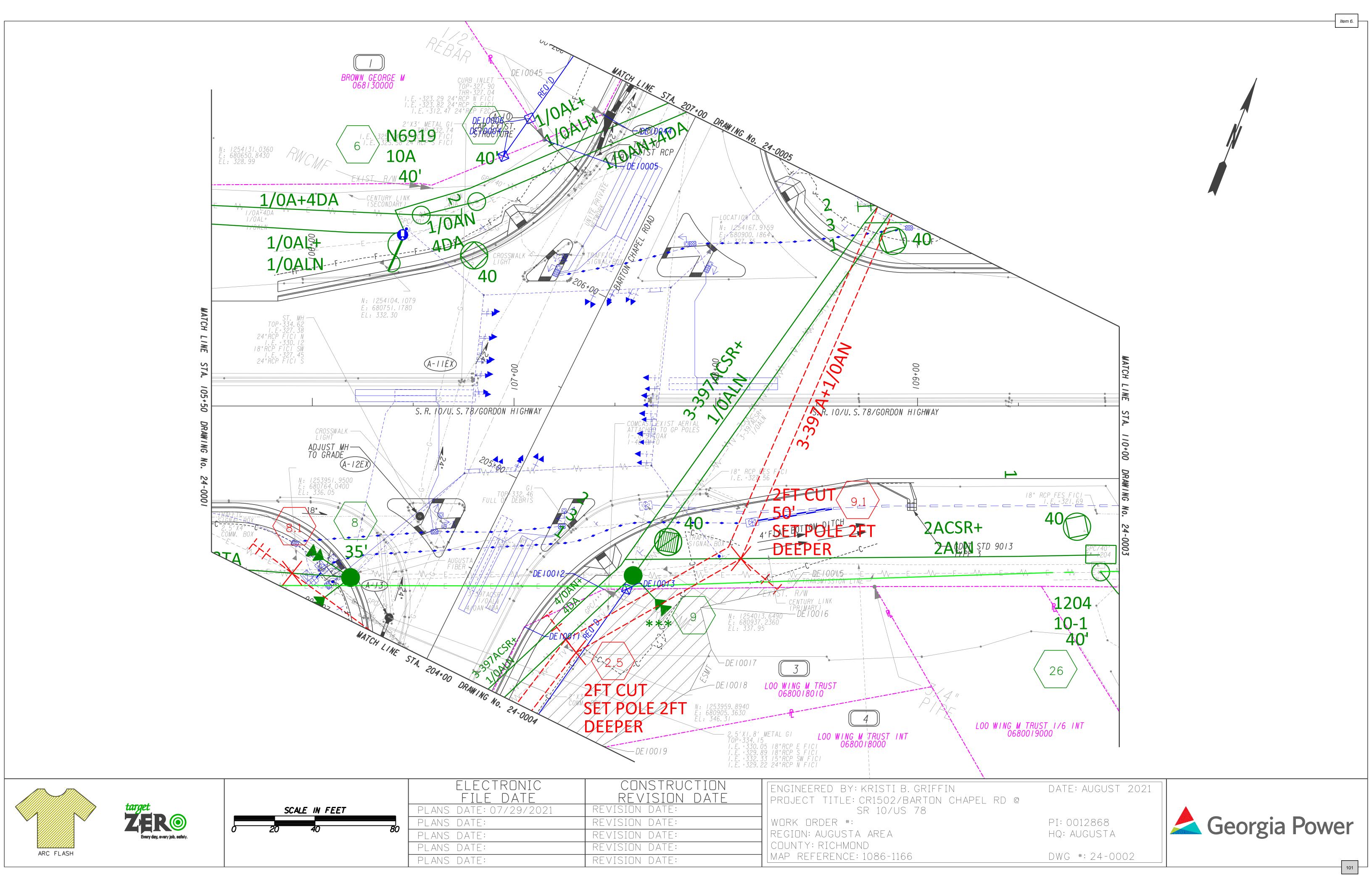
expressed. hereunto set hand and seal this 2 day of Signed, segled and delivered in the presence

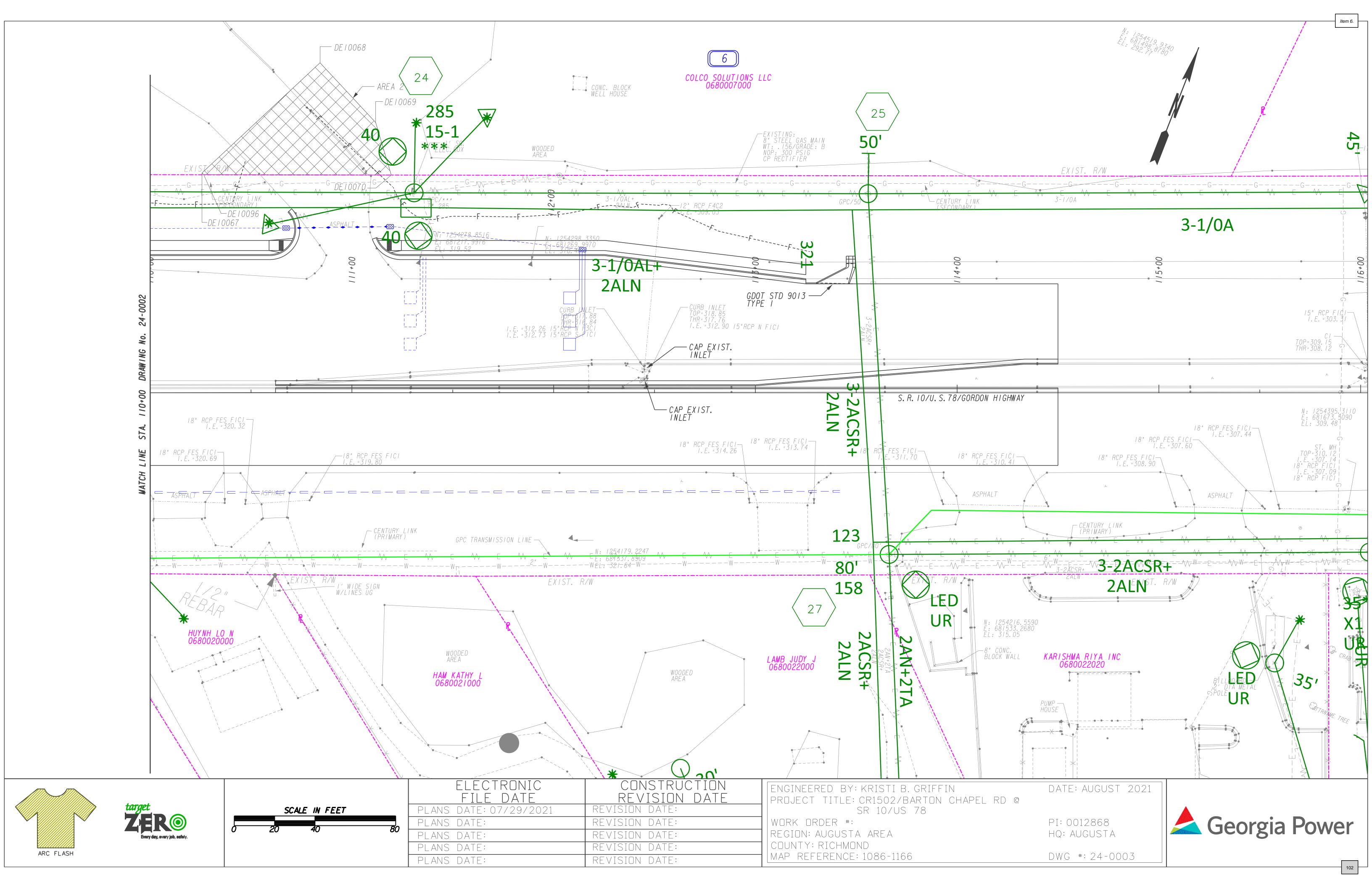
Said Company shall not be liable for, or bound by, any statement, agreement or understanding not herein

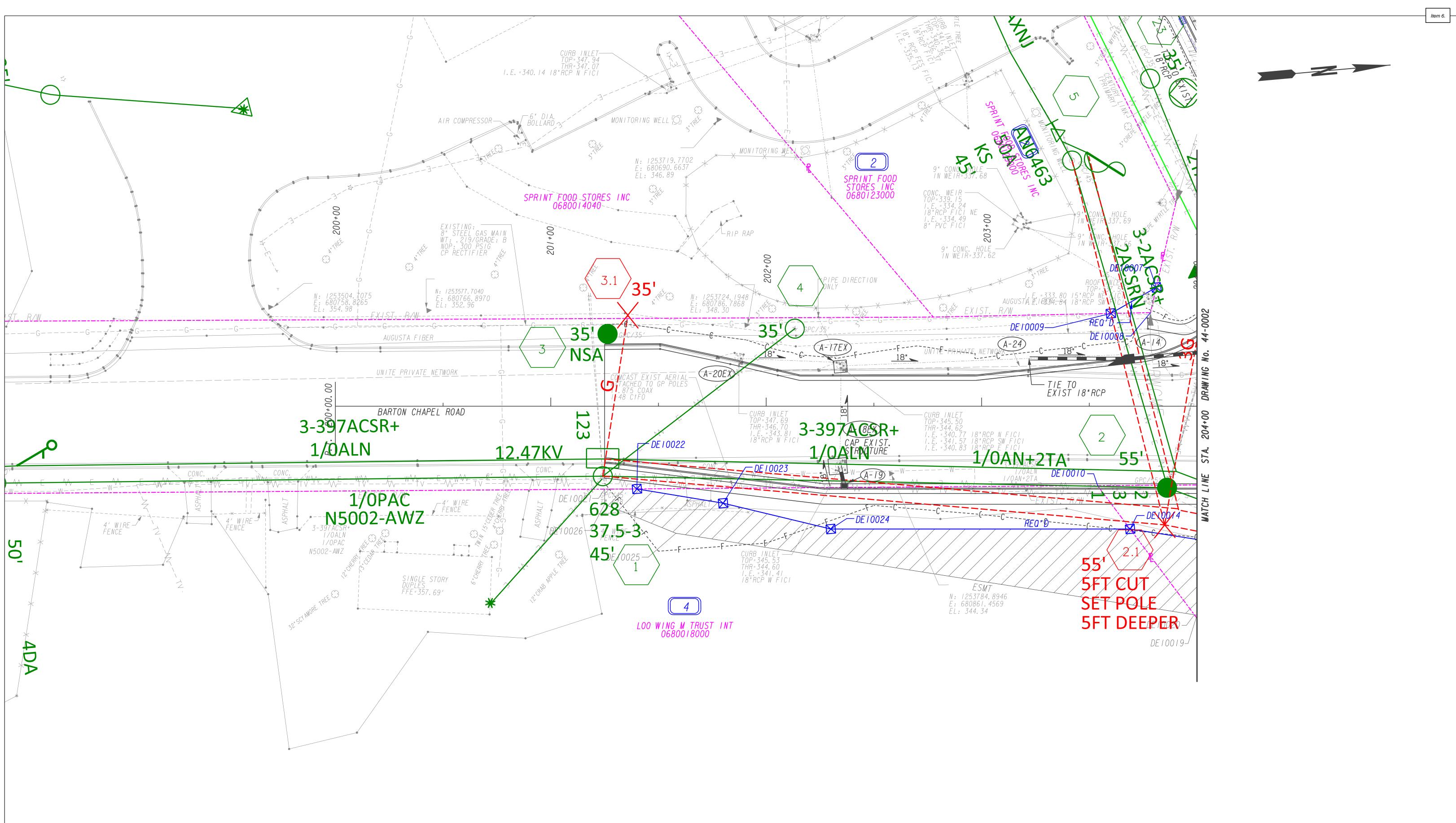
- Notary Public, State at Large, Georgia

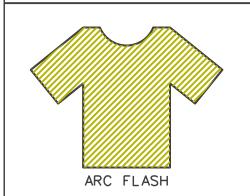
My Commission Expires July 11th, 1941



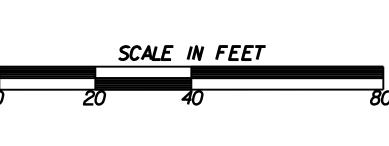












	ELECTRONIC FILE DATE	CONSTRUCTION REVISION DATE
	PLANS DATE: 07/29/2021	REVISION DATE:
	PLANS DATE:	REVISION DATE:
00	PLANS DATE:	REVISION DATE:
	PLANS DATE:	REVISION DATE:
	PLANS DATE:	REVISION DATE:

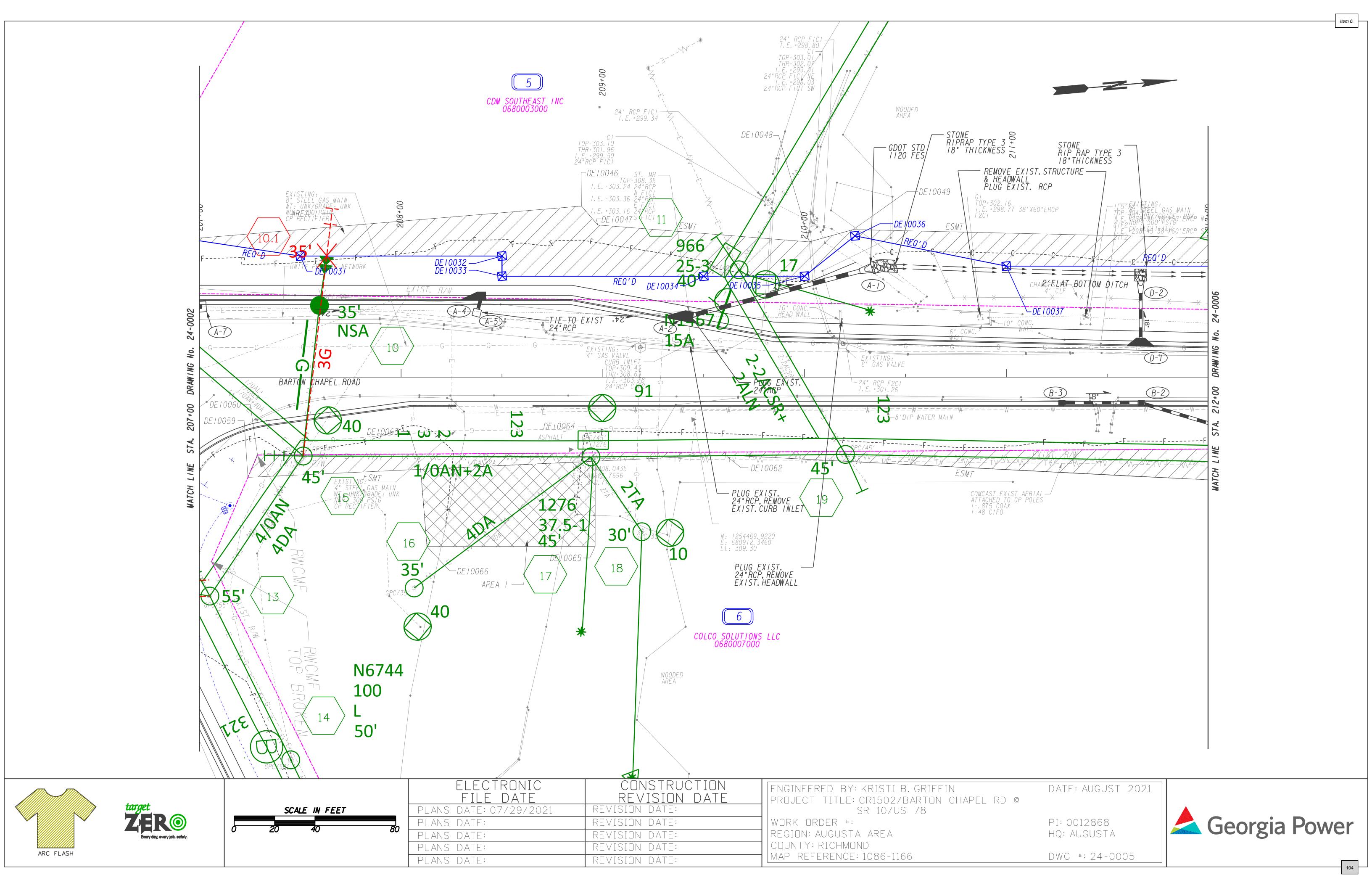
ENGINEERED BY: KRISTI B. GRIFFIN PROJECT TITLE: CR1502/BARTON CHAPEL RD @ SR 10/US 78

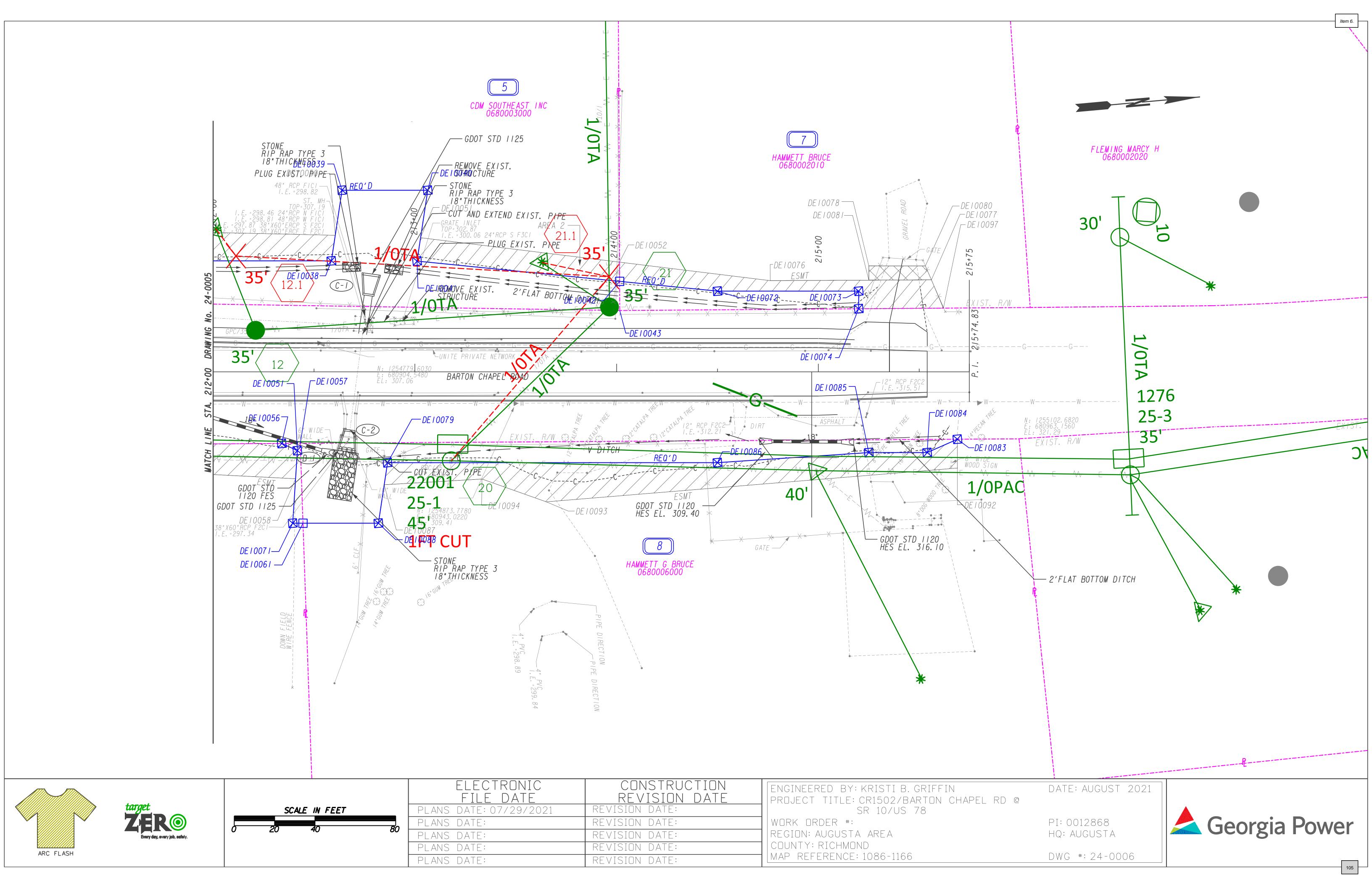
WORK ORDER #:

REGION: AUGUSTA AREA COUNTY: RICHMOND MAP REFERENCE: 1086-1166 DATE: AUGUST 2021

PI: 0012868 HQ: AUGUSTA DWG #: 24-0004









Engineering Services Committee Meeting

Meeting Date: 5/30/23

Fort Gordon Cyber CoE Campus Utilities Project E Change Order No. 1

Department: Utilities

Presenter: Wes Byne, Director

Caption: Approve Change Order No. 1 to Beam's Contracting, Inc.'s contract to

construct the Fort Gordon Cyber CoE Campus Utilities Project E.

Background: Augusta Utilities Department (AUD) is the contracted water, sanitary sewer,

and irrigation utility provider for Fort Gordon. Fort Gordon is constructing a new Cyber Center of Excellence (CoE) Campus, which encompasses the existing campus facilities around Signal Tower. This project constructs a 16" water main along 8th Avenue to provide a water transmission loop around

the north side of the campus.

During construction, significant additional conflicts were identified amongst the congested underground infrastructure along 8th Avenue between Building 25910 (Heating and Cooling Plant) and the electrical substation

Building 25910 (Heating and Cooling Plant) and the electrical substation. AUD determined the best resolution would be to reroute 1,720 feet of the 16" water main around the west side of Building 25910. This constructed the water main along the north side of Building 25810 (Brant Hall), and AUD added 580 feet of 8" lateral water main along the west site of Brant Hall. This provided the supplemental benefit of accomplishing over 1,100 feet of programmed water main replacement around Brant Hall. The change

includes associated pavement, curb and sidewalk replacement. Finally, the Contractor had pipe and fittings remaining upon completion of the 16" main construction. Considering current material shortages and lead times, AUD

purchased the remaining pipe materials at the supplier's unit cost rate.

Analysis: The cost for the additional for 16" water main reroute and 8" water main

change is \$706,344.37, and the cost of the materials purchase is \$136,726.80, which results in a total change order amount of \$843,071.17. The cost details are listed in the Change Order No. 1 documentation. The change order cost

will be paid by Fort Gordon within the project budget.

Financial Impact: The change order cost is \$843,071.17.

Alternatives: No alternatives are recommended

Recommendation: AUD recommends approval of Change Order No. 1 to Beam's Contracting,

Inc.'s contract in the amount of \$843,071.17.

Funds are available in $\,$ 515043490-5425410/88880160-5425410 the following accounts:

REVIEWED AND APPROVED BY:

Cyber CoE Campus Utilities Project E JLA Project No. 3042.1901

CONTRACT CHANGE ORDER

CO NUMBER	1
BID ITEM	22-203
DATE	5/15/2023

PROJECT TITLE

CYBER CoE CAMPUS UTILITIES - PROJECT E

ORIGINAL CONTRACT DATE

6/21/22

Description of Change (for a more detailed description see attached proposal):

PROJECT NUMBER

FG 2021-010

OWNER AUGUSTA, GEORGIA

PO NUMBER

22AUA121

The following change is hereby made to the contract for the above project:

Revise 16" water main alignment around Building 25910, and replace 8" water main at Building 25810 per plan sheets C-112 and C-113. Change adds 1,720 LF 16" DIP, 580 LF 8" DIP, and adds associated valves,

hydrants, bends and fittings along with connection to existing mains and services. Change includes associated clearing, pavement, curb and sidewalk replacement site work. Change includes AUD purchase of remaining 16" DIP, valves and fittings. The change order work line item list, material purchase list and reference plan sheets are attached. **PAYEE** Beam's Contracting, Inc. TOTAL AMOUNT OF THIS CHANGE ORDER 843,071.07 The contract time will NOT be INCREASED as determined by assigned work tasks. ORIGINAL CONTRACT AMOUNT 1,496,917.53 PREVIOUS CHANGE ORDER (INCREASE) 0.00 THIS CHANGE ORDER (INCREASE) 843,071.07 TOTAL REVISED CONTRACT AMOUNT WITH CHANGE ORDER 2,339,988.60 FUNDING NUMBER/ACCOUNT NUMBER 5425410 515043490 88880160 5425410 DATE: PROPOSED BY: DATE: 5/18/23 REQUESTED BY: DATE: SUBMITTED BY: DEPARTMENT HEAD DATE: FINANCE ENDORSEMENT: COMPTROLLER DATE: RECOMMENDED BY: ADMINISTRATOR DATE: APPROVED BY:

MAYOR

Augusta Utiltiies Department Cyber CoE Campus Utilities Project E (8th Avenue) Change Order No. 1 - Revised 16" Water Main Alignment and Brant Hall 8"Water Main

ITEM NO.	DESCRIPTION	UNITS	UNIT PRICE	QUANTITY	TOTAL PRICE
. WATER MAI	N.				
W-2-C	8" DIP restrained joint pipe (RJP)	LF	\$87.09	580	\$50,512.20
W-2-E	16" DIP restrained joint pipe (RJP)	LF	\$190.54	1,720	\$327,728.80
W-3	16" DIP Bore & Push DEDUCT	LF	\$492.40	-270	-\$132,948.00
W-4-C.1	8" 45 degree bend, MJ, RJF	EA	\$760.40	5	\$3,802.00
W-4-E.1	16" 90 degree bend, MJ, RJF	EA	\$2,739.50	3	\$8,218.50
W-4-E.2	16" 45 degree bend, MJ, RJF	EA	\$2,241.54	10	\$22,415.4
W-4-E.6	16" x 8" Tee, MJ, RJF	EA	\$2,798.68	1	\$2,798.6
W-4-E.7	16" x 6" Tee, MJ, RJF	EA	\$2,607.88	3	\$7,823.6
W-5-E	Fire Hydrant Assembly w/16"x6" Tee	EA	\$9,105.23	3	\$27,315.6
W-5-B	Fire Hydrant Assembly w/8"x6" Tee	EA	\$7,488.64	2	\$14,977.2
W-6-B	6" Valve (Open left (ccw); MJ, RJF) and Box w/ "WATER" on box cover	EA	\$1,862.84	1	\$1,862.8
W-6-C	8" Valve (Open left (ccw); MJ, RJF) and Box w/ "WATER" on box cover	EA	\$3,009.11	2	\$6,018.2
W-6-D	12" Valve (Open left (ccw); MJ, RJF) and Box w/ "WATER" on box cover	EA	\$6,473.21	2	\$12,946.4
W-6-E	16" Valve (Open left (ccw); MJ, RJF) and Box w/ "WATER" on box cover	EA	\$9,168.36	4	\$36,673.4
W-12	12" Insert Valve (install close unless otherwise noted and bury) and Box w/ "WATER" on box cover		\$27,739.20	2	\$55,478.3
W-19	Remove Existing Fire Hydrant	EA	\$1,305.77	1	\$1,305.7
W-4	8X6 Tee	EA	\$1,307.34	2	\$2,614.6
W-4	12x8 TEE	EA	\$1,796.35	1	\$1,796.3
W-4	12X8 CUT-IN TEE	EA	\$6,209.33	1	\$6,209.3
W-4	Install 4" SCH 80 through Casing and Conect Backflow	LF	\$73.42	200	\$14,684.0
W-4	Install 4" Fittings	EA	\$528.84	4	\$2,115.3
W-4	4" Tie-ln at Water Plant	LS	\$3,838.07	1	\$3,838.0
W-4	16" x 4" Tap	EA	\$6,779.85	1	\$6,779.8
W-4	2" Tap	EA	\$1,888.36	2	\$3,776.7
W-4	2" Copper Pipe	LF	\$85.95	30	\$2,578.5
W-4	Remove Existing PIV	EA	\$1,305.77	1	\$1,305.7
W-4	Install PIV	EA	\$6,770.47	1	\$6,770.4
W-4	6" 45 degree bend, MJ, RJF	EA	\$760.40	2	\$1,520.8

Augusta Utiltiies Department

Cyber CoE Campus Utilities Project E (8th Avenue)

Change Order No. 1 - Revised 16" Water Main Alignment and Brant Hall 8"Water Main

ITEM NO.	DESCRIPTION	UNITS	UNIT PRICE	QUANTITY	TOTAL PRICE
W-4	2" Meter and Backflow with Jumbo Meter Box	EA	\$4,688.12	1	\$4,688.12
W-4	2" Scheudle 80 Piping to Connect Trailers	LF	\$85.95	30	\$2,578.50
W-4	Tie-In new 2" Service	EA	\$1,478.44	1	\$1,478.44
W-4	Cut and Cap 6" Service for Cooling Towers	EA	\$1,245.23	1	\$1,245.23
I. PAYMENT	STRUCTURES				
P-2	Asphalt Pavement Removal and Replacement (2.5" 9.5 MM Superpave, 10.5" Graded Aggregate Base)	SY	\$144.39	400	\$57,756.00
P-5	Remove and Replace Concrete Sidewalk (3,500 psi, 4" Thick)	SY	\$60.00	195	\$11,700.00
P-9	Remove and Replace Concrete Curb and Gutter (GDOT Detail 9032B, Type 2, 3 or 4)	LF	\$61.20	60	\$3,672.00
P-10	Remove and Replace GAB Roadway 6"	LF	\$59.68	800	\$47,744.00
IV. LUMP S	SUM CONSTRUCTION				
LS-1	Mobilization, Demobilization	LS	\$4,325.45	1	\$4,325.45
LS-2	Bonds, Insurance	LS	\$6,873.34	1	\$6,873.34
LS-4	Traffic Control for vehicular and pedestrian way (for construction under this contract).	LS	\$19,972.38	1	\$19,972.38
II. MISCELLA	NEOUS				
M-5	Clearing & Grubbing	AC	\$43,391.63	1	\$43,391.63
Subtotal for	additonal water main scope				\$706,344.27

AUD Purchase of Remaining Materials (See list)

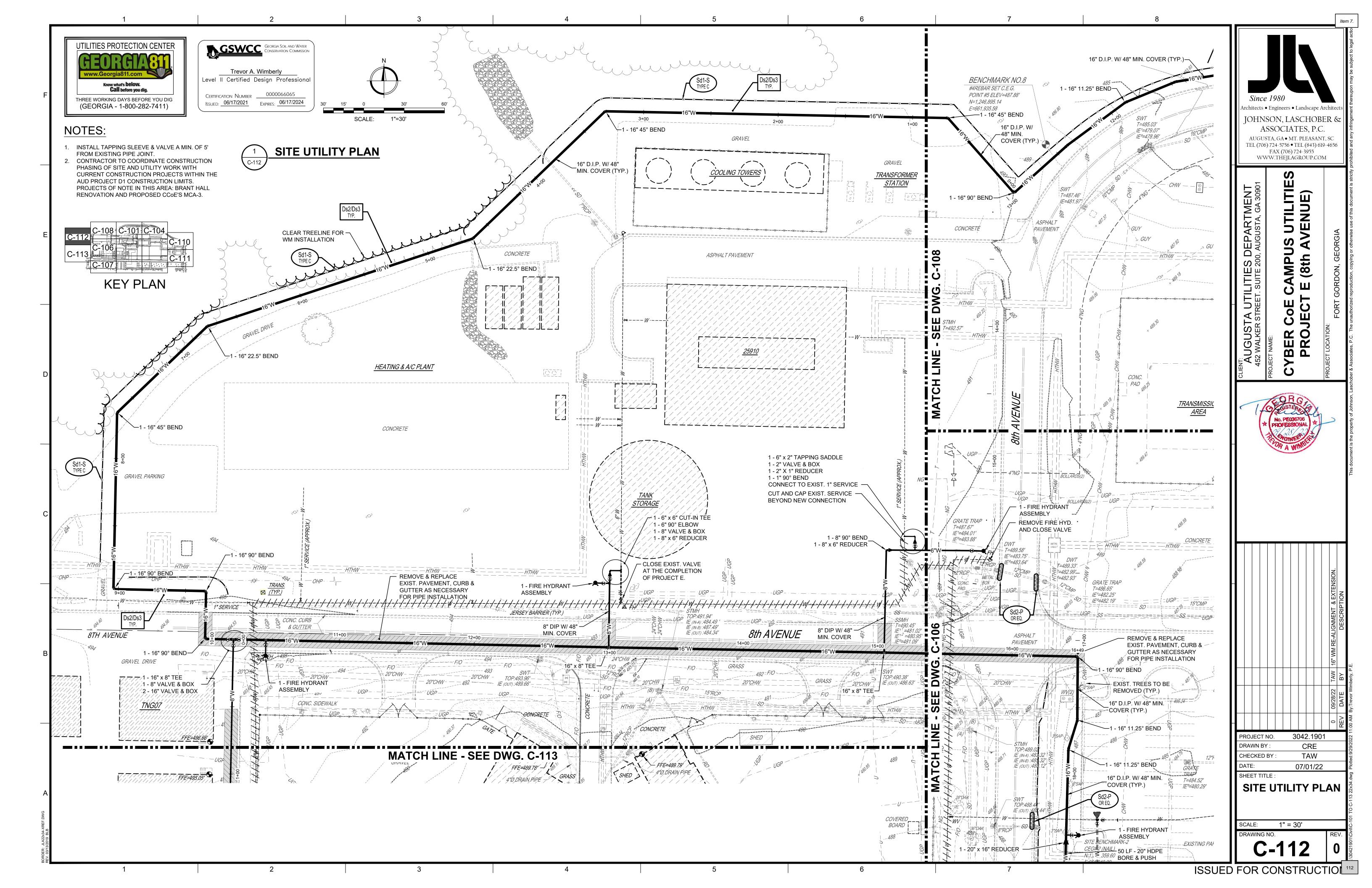
\$136,726.80

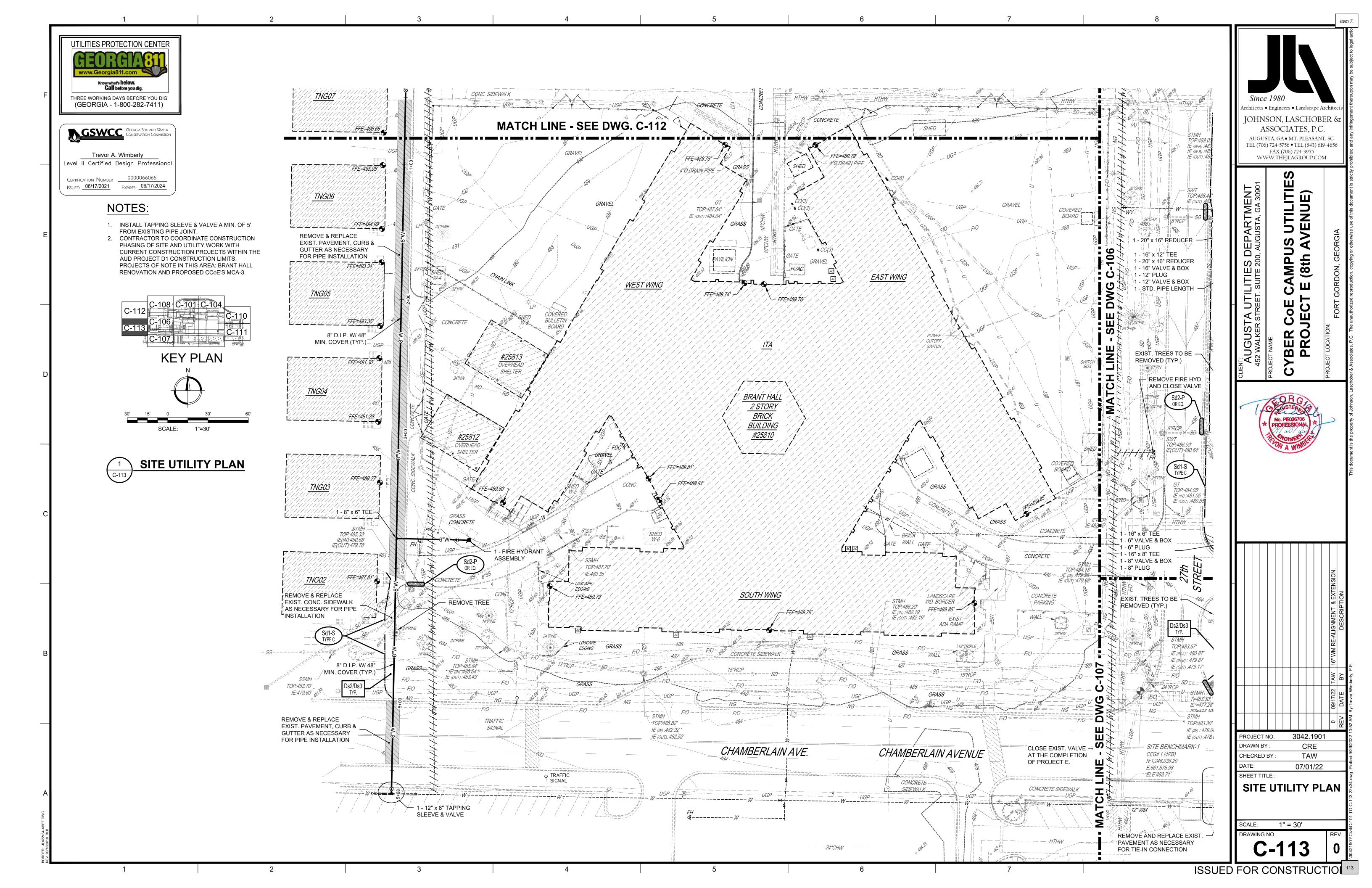
\$843,071.07

Item 7.

Augusta Utilities Department Cyber CoE Campus Utilities Project E (8th Avenue) Change Order No. 1 Materials Purchase List

Item Number - Description	ı	Unit Price	Unit of Measure	Quantity	Total
A - WATER MAIN					
A-003 - W-2-E 16"DIP RESTRAINRD JOINT PIPE	\$	118.57	LF	360	\$ 42,686.35
A-013 - W-4-E.2 16" 45-DEGREE BEND,MJ,RJF	\$	2,070.89	EA	16	\$ 33,134.23
A-026 - W-6-E 16" WATER VALVE OPEN LEFT (CCW),MJ	\$	11,377.34	EA	3	\$ 34,132.01
A-012 - W-4-E.1 16" 90 DEGREE BEND,MJ,RJF	\$	2,484.56	EA	2	\$ 4,969.12
A-010 - W-4-D.3 12"X12" TEE,MJ,RJF	\$	1,703.54	EA	2	\$ 3,407.08
A-010 - W-4-D.3 16"X16" TEE,MJ,RJF	\$	3,393.55	EA	2	\$ 6,787.11
A-010 - W-4-D.3 16"X8" TEE,MJ,RJF	\$	2,484.56	EA	2	\$ 4,969.12
A-019 - W-4-E.8 16"X 12" REDUCER, MJ, RJF	\$	2,070.89	EA	2	\$ 4,141.78
Freight Charges	\$	2,500.00	LS	1	\$ 2,500.00
Project Totals:					\$136,726.80

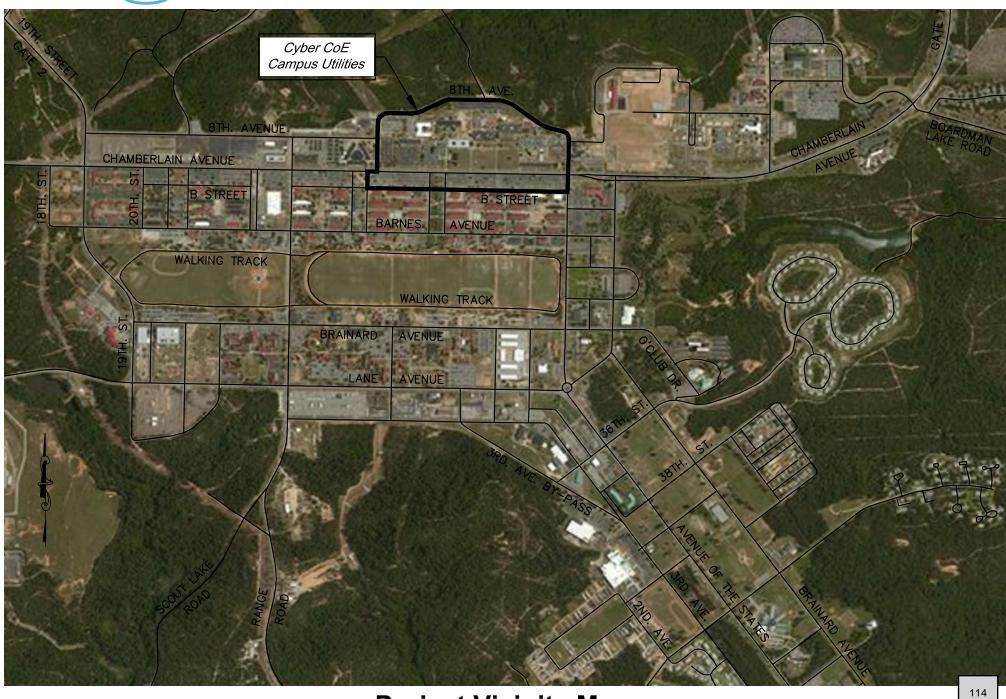




Item 7.



AUD Fort Gordon Cyber CoE Utilities





Engineering Services Committee

July 11, 2023

Minutes

Department: N/A

Presenter: N/A

Caption: Motion to approve the minutes of the Engineering Services Committee held

on June 13, 2023.

N/A

Background: N/A

Analysis: N/A

Financial Impact: N/A

Alternatives: N/A

Recommendation: N/A

Funds are available in N/A

the following accounts:

REVIEWED AND

APPROVED BY:



ENGINEERING SERVICES COMMITTEE MEETING MINUTES

Commission Chamber Tuesday, June 13, 2023 1:10 PM

ENGINEERING SERVICES

PRESENT

Mayor Garnett Johnson Commissioner Alvin Mason Commissioner Catherine Smith-McKnight Commissioner Tony Lewis Commissioner Brandon Garrett

1. Motion to approve the minutes of the Engineering Services Committee held on May 9, 2023.

Motion to approve.

Motion made by Garrett, Seconded by Smith-McKnight. Voting Yea: Mason, Smith-McKnight, Lewis, Garrett

Motion carries 4-0.

2. Update on Tom Wiedmeier name to be added to Utilities Building per previous commission action and approval. (Requested by Commissioner Brandon Garrett)

It was the consensus of the committee that this item be received as information with unanimous consent.

3. Discuss solutions to resolve/prevent drivers from hitting low bridges. (Requested by Commissioner Wayne Guilfoyle)

Motion to approve implementing notifying the GPS services of the low railroad bridge on Olive Road to be a permanent notification on all GPS devices.

Motion made by Garrett, Seconded by Smith-McKnight.

Voting Yea: Mason, Smith-McKnight, Lewis, Garrett

Motion carries 4-0.