



Public Facilities Committee Beaufort County, SC

This meeting will be held both in person in Council Chambers at 100 Ribaut Road, Beaufort, and virtually through Zoom. Please be aware that there is limited seating available for the in-person meeting and attendees must practice social distancing

**Monday, September 20, 2021
3:30 PM**

(or at the conclusion of the Finance Committee Meeting, no sooner than 3:00PM)

AGENDA

1. CALL TO ORDER
2. PLEDGE OF ALLEGIANCE
3. *PUBLIC NOTIFICATION OF THIS MEETING HAS BEEN PUBLISHED, POSTED, AND DISTRIBUTED IN COMPLIANCE WITH THE SOUTH CAROLINA FREEDOM OF INFORMATION ACT*
4. APPROVAL OF AGENDA
5. APPROVAL OF MINUTES - JULY 19, 2021 AND AUGUST 16, 2021
6. **CITIZENS COMMENTS - *(ANYONE who wishes to speak during the Citizen Comment portion of the meeting will limit their comments to no longer than three (3) minutes (a total of 15 minutes) and will address Council in a respectful manner appropriate to the decorum of the meeting, refraining from the use of profane, abusive, or obscene language)***
7. ASSISTANT COUNTY ADMINISTRATOR'S REPORT

AGENDA ITEMS

8. RECOMMENDATION OF AWARD FOR RFQ 060821 CONSULTING SERVICES TO PROVIDE AN EVALUATION AND STUDY OF ISSUES RELATED TO BEAUFORT COUNTY PUBLIC BOAT LANDINGS (\$312,965.00)
9. REQUEST TO PURCHASE CATERPILLAR MODEL 323 EXCAVATOR W/ LONG REACH (\$221,823.85)
10. REQUEST TO PURCHASE OF A TIGER TRUCK/MOWER (\$218,622.40)
11. REQUEST TO PURCHASE PUBLIC WORKS - PURCHASE OF FORD F550 (\$149,826.00)
12. RECOMMENDATION TO AWARD RFQ #042721E, INDOOR POOL RENOVATIONS ARCHITECTURE AND ENGINEERING SERVICES (> \$1,000)
13. DISCUSSION ON FINANCING FOR THE HILTON HEAD ISLAND AIRPORT EXPANSION
14. WIMBEE CREEK FISHING PIER – CONDITION ASSESSMENT

15. UPDATE 170 IMPROVEMENTS (BETWEEN 278 AND 462)
- [16.](#) SC 170 ACCESS MANAGEMENT PLAN NORTH
- [17.](#) AN ORDINANCE AUTHORIZING THE COUNTY ADMINISTRATOR TO EXECUTE A MODIFICATION OF DRAINAGE EASEMENT ASSOCIATED WITH PARCEL #R112-031-000-0628-0000
18. CHAIRMAN'S WRAP UP
19. ADJOURNMENT



**Public Facilities
Committee Meeting**

2021 Committee Objectives

- 1. TRANSPORTATION
- 2. SOLID WASTE & RECYCLING
- 3. COUNTY FACILITIES
- 4. AIRPORTS
- 5. DAUFUSKIE FERRY
- 6. CAPITAL INVESTMENT

Chairman
STU RODMAN

Vice Chairman
YORK GLOVER

Committee Members
CHRIS HERVOCHON
BRIAN FLEWELLING
MARK LAWSON

County Administrator
ERIC GREENWAY

Clerk to Council
SARAH W. BROCK

Staff Support
CHUCK ATKINSON
JARED FRALIX

Administration Building
Beaufort County Government
Robert Smalls Complex
100 Ribaut Road

Contact
Post Office Drawer 1228
Beaufort, South Carolina 29901-1228
(843) 255-2180

Public Facilities Committee Minutes

Monday, July 19, 2021 at 2:00 PM

PRESENT

Committee Chairman Stu Rodman
Committee Vice-Chair York Glover
Council Member Brian Flewelling
Council Member Joseph F. Passiment
Council Member Gerald Dawson
Council Member Lawrence McElynn

ABSENT

Council Member D. Paul Sommerville
Council Member Chris Hervochon
Council Member Alice Howard
Council Member Mark Lawson
Council Member Logan Cunningham

CALL TO ORDER

Chairman Rodman called the meeting to order at 2:00 PM

PLEDGE OF ALLEGIANCE

Chairman Rodman led the Pledge of Allegiance.

FOIA

Chairman Rodman noted that Public notification of this meeting had been published, posted, and distributed in compliance with the South Carolina Freedom of Information Act.

APPROVAL OF AGENDA

Motion to Amend: It was moved by Council Member Flewelling, seconded by Committee Vice-Chair Glove to amend the Agenda to add an item to Executive Session: Pursuant to S.C. Code Sec. 30-4-70(a)(2) receipt of legal advice where the advice relates to pending claims and move Executive session to item #8. The motion was approved without objection.

Motion: It was moved by Council Member Flewelling, seconded by Committee Vice-Chair Glover to approve the amended agenda. The motion was approved without objection.

APPROVAL OF MINUTES

Motion: It was moved by Committee Vice-Chair Glover, seconded by Council

Member Flewelling to approve minutes from May 17, 2021. The motion was approved without objection.

AGENDA ITEMS

Transportation Sales Tax Referendum Discussion

*** See Presentation ***

Status: For Informational Purposes Only

Introduction of the County Facilities 10-year Plan

*** See Presentation ***

Status: For Informational Purposes Only.

EXECUTIVE SESSION

Pursuant to S.C. Code Sec. 30-4-70(a)(2) receipt of legal advice where the legal advice relates to matters covered by the attorney-client privilege.

Pursuant to S.C. Code Sec. 30-4-70(a)(2) receipt of legal advice where the advice relates to pending claims.

Motion: It was moved that Committee Vice-Chair Glover, seconded by Council Member Passiment to go into executive session. The motion was approved without objection.

MATTERS ARISING OUT OF EXECUTIVE SESSION

No matters arising out of executive session

Assistant County Administrators Report - Jared Fralix

Eric Greenway presented an update about the growth plan with future needs of staff and SIG recommendations.

Jared Fralix presented updates on:

1. Airports
2. Boat Landing Master Plan Study
3. Electric Vehicles Consultant

Cindy Carter presented a presentation of the Convenience Center Decal System Update

Jared Fralix presented updates on:

- B. 2018 Sales Tax Update
- D. 278 -Corridor Funding Update
- C. Discussion of additional Littering crew

Status: For Informational Purposes Only

Hilton Head Island Airport (HXD) – TBE Work Authorization 2119-2101 *(Fiscal impact:) \$531,242 (Funded 100% (reimbursable) by FAA Grant 47*

Jon Rembold stated the existing runway and taxiway at HXD need additional strengthening and rehabilitation due to the increased commercial jet aircraft using the airport. Professional services to be provided by Talbert, Bright & Ellington, Inc. (TBE) will include full engineering design services, bidding, and construction administration.

Motion: It was moved by Council Member McElynn, seconded by Committee Vice-Chair Glover to move forward to the County Council for a recommendation of approval. The motion was approved without objection.

Beaufort Executive Airport (ARW) – New Fuel provider – Campbell Oil Company_Fiscal impact: 51000011-58000 (Purchases-Fuel/Lubricants) \$375,000 (Resale for profit)

Jon Rembold stated the Beaufort Executive Airport purchases aviation fuels for resale at a profit. The term of the contract for the current provider expires soon and Campbell Oil has been selected as the next provider following an RFP and interview process. Campbell Oil is a family-owned business that has grown into a major provider in the Southeast. Their reviews are strong, especially in the areas of reliability and customer service. Campbell Oil is a Phillips 66-branded provider and offers other benefits to the airport such as marketing assistance, customer loyalty programs, inexpensive fuel trucks with service plans, staff safety training, and point of sale software assistance. The airport purchases the aviation fuels and then sells the fuel at a profit. This is a top revenue line item for the airport.

Motion: It was moved by Council Member McElynn, seconded by Committee Vice-Chair Glover to move forward to the County Council for a recommendation of approval. The motion was approved without objection.

Airport's FY22 contract renewals.

- A. Volarie Aviation Consulting - \$53,400
- B. Securitas Security - \$127,764

Dave Thomas stated to improve our process for renewing annual contract renewals a summary sheet (see the attached excel sheet) is provided for Committee's review and approval. The summary sheet provides the vendor name, purpose, requesting department, account name and number, prior and current contract cost, term, and notes. The Department Head responsible for the contract or their representative will be available for questions during the Committee meeting.

Motion: It was moved by Council Member McElynn, seconded by Committee Vice-Chair Glover to move forward to the County Council for a recommendation of approval. The motion was approved without objection.

Beaufort County and City of Beaufort Intergovernmental Agreement Amendment for Airport Frontage Road

Jared Fralix stated in March 2020, Beaufort County and the City of Beaufort entered into an intergovernmental agreement for the construction and improvements at US 21 Airport Area and Airport Frontage Road (Lost Island Connectivity Project). Through the development of the project, Beaufort County and the City of Beaufort has a desire to clarify right of way language in the agreement.

Motion: It was moved by Committee Vice-Chair Glover, seconded by Council Member Passiment to approve the execution of the Beaufort County and City of Beaufort Intergovernmental Agreement Amendment for Airport Frontage Road to move forward to County Council for approval. The motion was approved without objection.

Recommendation of Award for RFP #032421– Project Management, Landscape Maintenance Services for Linear Medians for Various County Roads (\$236,892.00)

Jared Fralix stated due to the maintenance responsibility of several linear project areas (Sections of Highway 278 medians, Spanish Moss Trail & Bluffton Parkway), staff recognized that these specific areas would be better suited to be contracted out. Initial discussions were conducted with several landscape contractors to gauge interest in potential bidders for this project. This project was put out for bid, four bids were received with County staff choosing The Greenery, the lowest, most responsive, and responsible bidder.

Motion: It was moved by Council Member Passiment, Seconded by Council Member McElynn to approve the recommendation of award for RFP #032421– Project Management, Landscape Maintenance Services for Linear Medians for Various County Roads to The Greenery to move forward to County Council for approval. The motion was approved without objection.

CITIZEN COMMENTS

Robert Fitzgerald emailed regarding US 278 Corridor improvements, this was forwarded to County Council, County Administrator, and appropriate staff.

Ananta Gopalan submitted a County Council Feedback form regarding 5B Bluffton Parkway Realignment, this was forward to County Council, County Administrator, and appropriate staff.

Thomas Senigla submitted a County Council Feedback form regarding 5B Extension, this was forwarded to County Council, County Administrator, and appropriate staff.

Linda Benninger emailed regarding proposed changes to Bluffton/Hilton Head Island Bridge and 278 Corridor. This was forwarded to County Council, County Administrator, and appropriate staff.

Betty Black submitted a County Council Feedback form regarding bridges and fixing dirt roads. This was forwarded to County Council, County Administrator, and appropriate staff.

Mary Delle Robinson submitted a County Council Feedback form regarding 5B Bluffton Parkway. This was forwarded to County Council, County Administrator, and appropriate staff.

Joshua Hirsch submitted a County Council Feedback form regarding extension of 5B. This was forwarded to County Council, County Administrator, and appropriate staff.

Carmen (no last name) submitted a County Council Feedback form regarding extension of 5B. This was forwarded to County Council, County Administrator, and appropriate staff.

Chairman wrap up

Beaufort County Transportation Committee - 1 vacancy – District 7

Construction Adjustment and Appeals Board - 2 Vacancies - Design Professional/Contractor/Building Industry

Stormwater Management Utility Board - 1 vacancy – District 8

ADJOURNMENT

The meeting was adjourned 3:54 PM



Public Facilities Committee Beaufort County, SC

****AT THE CONCLUSION OF THE FINANCE COMMITTEE BUT NO SOONER THAN 3:00 PM****This meeting will be held both in person and at County Council, 100 Ribaut Road, Beaufort, and virtually through Zoom. Please be aware that there is limited seating available for the in-person meeting and attendees must practice social distancing

**Monday, August 16, 2021
3:30 PM**

MINUTES

1. **CALL TO ORDER**

Chairman Rodman called the meeting to order at 3:28 PM

PRESENT

Committee Chairman Stu Rodman
Committee Vice-Chair York Glover
Council Member Brian Flewelling
Council Member Joseph F. Passiment
Council Member D. Paul Sommerville
Council Member Gerald Dawson
Council Member Chris Hervochon
Council Member Alice Howard
Council Member Mark Lawson
Council Member Lawrence McElynn

ABSENT

Council Member Logan Cunningham

2. **PLEDGE OF ALLEGIANCE**

Chairman Rodman led the Pledge of Allegiance.

3. **FOIA**

PUBLIC NOTIFICATION OF THIS MEETING HAS BEEN PUBLISHED, POSTED, AND DISTRIBUTED IN COMPLIANCE WITH THE SOUTH CAROLINA FREEDOM OF INFORMATION ACT

4. **APPROVAL OF AGENDA**

Motion to Amend: It was moved by Council Member Flewelling, seconded by Council Member Sommerville to amend the agenda to do the items in this order: Airport items, citizens comment, add

assistant administrators report, the remainder of agenda items. The motion to approve the amended agenda was approved without objection.

5. **APPROVAL OF MINUTES**

Motion: It was moved by Council Member Howard, seconded by Committee Vice-Chair Glover to approve minutes from June 21, 2021. The motion was approved without objection.

AGENDA ITEMS

6. **HILTON HEAD ISLAND AIRPORT PRESENTATION & TERMINAL PROJECT FUNDING DISCUSSION**

Jon Rembold stated the terminal project and its funding at previous Finance and Public Facilities Committees. The terminal project has been in design for about 18 months with significant input from a stakeholder group made up of a cross-section of community members. It is now nearly ready to bid, but the funding solution must be complete before offering the bid opportunity.

Status: For Informational Purposes Only

Presentation: To see the full presentation click the link below.

<https://beaufortcountysc.new.swagit.com/videos/130484>

7. **RESOLUTION AUTHORIZING COUNTY ADMINISTRATOR TO ACCEPT FAA GRANT 47 (FISCAL IMPACT: INCOMING GRANT FUNDS - \$1,233,622)**

Jon Rembold stated the projects that will be 100% funded by this grant include the design and bidding of the runway and taxiway strengthening project and the procurement of a new Aircraft Rescue and Firefighting Vehicle (previously approved by Council in June 2021)

Motion: It was moved by Council Member Flewelling, Seconded by Committee Vice-Chair Glover to move forward to County Council for approval on August 23, 2021. The motion was approved without objection

Discussion: To see the full discussion click the link below.

<https://beaufortcountysc.new.swagit.com/videos/130484>

The Vote: Committee Chairman Rodman, Committee Vice-Chair Glover, Council Member Flewelling, Council Member Passiment, Council Member Sommerville, Council Member Dawson, Council Member Hervochon, Council Member Howard, Council Member Lawson, Council Member McElynn. The vote 10:0

8. **Citizen Comment**

Carol Crutchfield commented about King George Road into the county road system.

9. **Request for Private Road Acceptance of King George Road into County Road System**

Jared Fralix stated King George Road is a private road (~872 LF) located in the Verdier View subdivision off SC 46 in Bluffton. The Verdier View Association was incorporated on 03/14/1985 and dissolved on 8/11/1992. Associated covenants state that owners will automatically become a member of Verdier View Association, Inc and shall be entitled to all the rights of membership as well as the obligations imposed upon them. Since this HOA was dissolved, roads have deteriorated with no means to repair. A particular concern is a commercial property at the entrance of the neighborhood utilizing 18-wheeler

delivery trucks causing potholes and road erosion. Neil Desai, P.E., the Public Works Director, has estimated road and drainage repair costs to be around \$70,000 and he has concerns associated with road acceptance.

Status: To move forward to the next Committee meeting.

Discussion: To see the full discussion click the link below.

<https://beaufortcountysc.new.swagit.com/videos/130484>

10. **Assistant County Administrators Report - Jared Fralix**

Status: For Informational Purposes Only

Discussion: To see the full discussion click the link below.

<https://beaufortcountysc.new.swagit.com/videos/130484>

11. **Discussion of SC 170 Improvement Project (Near-term Improvements)**

Jared Fralix stated LATS commissioned an Access Management Study for SC 170 in 2019. The study area included a 4.4-mile segment from US 278 to SC 462. Coming from the report, recommendations were developed for near-term, intermediate-term and long-term improvements. In April, County Council commissioned the design on the short-term improvements (approx. \$200k). It is anticipated the near-term improvements have a construction cost of \$3,000,000.

Motion: It was moved by Council Member Flewelling, seconded by Council Member Lawson to move forward to County Council for approval of 1.5 million from impact fees for the construction of the intersection by Highway 462. The motion was approved without objection.

Discussion: To see the full discussion click the link below.

<https://beaufortcountysc.new.swagit.com/videos/130484>

The Vote: Committee Chairman Rodman, Committee Vice-Chair Glover, Council Member Flewelling, Council Member Passiment, Council Member Sommerville, Council Member Dawson, Council Member Hervochon, Council Member Howard, Council Member Lawson, Council Member McElynn. The vote 10:0

12. **PUBLIC FACILITIES VACANCIES**

Status: For Informational Purposes Only

Discussion: To see the full discussion click the link below.

<https://beaufortcountysc.new.swagit.com/videos/130484>

13. **ADJOURNMENT**

The meeting adjourned at 4:44 PM



BEAUFORT COUNTY COUNCIL AGENDA ITEM SUMMARY

ITEM TITLE:
Recommendation of award for RFQ 060821 Consulting Services to provide an evaluation and study of issues related to Beaufort County Public Boat Landings (\$312,965.00)
MEETING NAME AND DATE:
Public Facilities Committee – September 20, 2021
PRESENTER INFORMATION:
Jared Fralix, Assistant County Administrator, Engineering Mark Roseneau, Director, Facility Management (Alternate) 15 minutes
ITEM BACKGROUND:
Beaufort County published a solicitation for the Consulting Services to provide a study of issues related to Beaufort County Public Boat Landings on May 7, 2021 to which 4 firms submitted qualifications. A committee of 4 evaluated the submissions and determined that Creech and Associates, PLLC was the most qualified.
PROJECT / ITEM NARRATIVE:
Publicly owned boat landings contribute greatly to the economic impact of the tourism and recreation industries, and the quality of life of the Beaufort County’s residents by affording boating access to the creeks, rivers, bays, and sounds of our coastal county. The responsibility of providing maintenance, facility upgrades, new facilities, and security increasingly falls on the Beaufort County, with traditional funding sources requested annually. Beaufort County desires to make an effort to establish reliable funding sources, create uniform standards, and enhance safety, accessibility, security, and environmental compatibility.
FISCAL IMPACT:
The proposal received from Creech and Associates for consulting services is \$284,515.00. With a 10% contingency of \$28,450, the final contract amount is \$312,965 . The County has \$150,000 from an A/H Tax Grant already in place for this project. A second A/H Tax Grant will be applied for in December for the shortfall of \$162,965. Should the grant prove unsuccessful, the remainder contract value will be paid from Facilities Management account number 10001310-51130.
STAFF RECOMMENDATIONS TO COUNCIL:
Staff recommends award of RFQ 060821 Consulting Services for Public Boat Landings to Creech and Associates. (\$312,965)
OPTIONS FOR COUNCIL MOTION:
Motion to approve/deny recommendation of award RFQ 060821 Consulting Services for Beaufort County Public Boat Landings to Creech and Associates. <i>(Next step: Move forward to County Council for approval.)</i>

August 24, 2021

David L. Thomas, CPPB, CPPO
Purchasing Director
Beaufort County
106 Industrial Village Road, Bldg. #2
Beaufort, S.C. 29901

Re: Public Boat Landing Facilities Assessment (RFQ 060821)

David:

Creech & Associates, PLLC is pleased to present you with a proposal for design services to complete a comprehensive study of issues related to the design, construction, operation, maintenance, and use of public boat landing access within Beaufort County. The following is a general understanding of the project goals and scope of work:

- The assessment is needed to establish the condition of current facilities, create procedures for their maintenance and upgrades, and plan for new facilities.
- The results will provide a plan with both short-term and long-term solutions for improving the quality of life of Beaufort County residents by offering better boating access to the various waterways of the coastal county.
- The process is estimated to encompass 12 months and is scheduled to commence in October 2021. The starting date is pending the completed contract approval by the County. *Due to the potential for state and local authorities to modify state-wide orders related to COVID-19, the schedule may be extended accordingly.*

The consultant team serving the project is as follows:

- | | |
|--|--------------------------|
| • Jon Guerry Taylor & Associates, Inc. (JGT) | Marine Engineering |
| • ADC Engineering, Inc. (ADC) | Civil Engineering |
| • Chmura Economics & Analytics (CHM) | Economic Impact Analysis |
| • Davenport Public Finance (DAV) | Capital Planning |

The fee is structured around the eight (8) tasks identified in our request for qualifications. The final deliverable will be an 8.5 x 11 formatted electronic document that provides a comprehensive summary of each task and the relative findings and conclusions. A breakdown of the deliverables is as follows:

Task 1: Initial Scoping Meeting with Advisory Committee

- A. Coordination meeting with the Advisory Committee to confirm scope and schedule

Task 2: Preliminary Information Gathering and Kickoff Meeting

- A. Prepare and coordinate a fee proposal and project schedule for approval
- B. Initiate project ShareFile site for data transfer
- C. Receive from the County various data required and requested to initiate the study: all survey plats, CAD files, drawings of existing facilities, and copies of previous studies
- D. Develop base files for each site with available information including surveys, aerials, historic data, and previous study information
- E. Kickoff meeting with the Advisory Committee

Task 3: Individual Landing Site Assessments

- A. Conduct a physical site assessment for upland elements of each location identified in Attachment A that includes the following components:
 - Vehicular and pedestrian circulation
 - Parking capacity
 - Stormwater drainage
 - Lighting
 - ADA compliance
- B. Conduct a physical structural non-invasive assessment of the boat ramps and piers
- C. Conduct a hydrographic survey and dredging evaluation at the Broad River Boat Landing only. *Scope of work does not include any additional hydrographic surveys or below surface evaluations.*
- D. Develop recommendations for subsequent repairs including preliminary cost estimates
- E. Compile each site into a standard document format with a single-page snapshot summary of significant findings

Task 4: Standard Operations Manual

- A. Compile recommendations to serve as standard methods and procedures for county-wide facility and maintenance standards for existing and new boat landing sites
- B. Incorporate the following design criteria:
 - Ordinance for use and security
 - ADA compliance
 - Lighting
 - Parking
 - Wayfinding/signage
 - Accommodation of non-motorized watercraft
 - Environmental best management practices
 - Pollution prevention best management practices
- C. Create an inspection checklist for future use in maintaining sites
- D. Present a draft to the Advisory Committee
- E. Revise per owner review comments and provide as a stand-alone document

Task 5: Regional Master Plan of Boating Access

- A. Review and evaluate boat landing site access on a county-wide scale
- B. Incorporate an analysis of the following components:
 - New landing site considerations
 - Strategies to address direct and secondary impacts
 - Environmental constraints
- C. Conduct three (3) public outreach sessions in strategic locations to facilitate input
- D. Present master plan and observations to the Advisory Committee
- E. Develop a list of priorities for implementation based on direction
- F. Provide as a stand-alone document for separate funding source identification

Task 6: Economic Impact Analysis

- A. Conduct a household survey to understand the potential use of boat landings in Beaufort and the surrounding counties.
 - This survey will be a telephone survey with a target population of current and potential boat users from Beaufort and surrounding counties.
 - Frequency and duration of recreation trips
 - Associated use of motels and restaurant facilities
- B. Utilize the Jobs EQ economic impact model to estimate the direct, indirect, and induced impact in terms of spending and jobs created, as well as the business diversity impacts
- C. Identify quantitatively the economic diversity benefit of the boat landing and how expansion of facilities can satisfy public recreation and economic needs

Task 7: Capital Planning

- A. Utilize the cost estimates from the site assessments, data from the economic impact analysis, recommendations of the regional boating access master plan, and other additional county financial information to create a capital funding model.
- B. Identify the desired capital plan that addresses the funding required to implement the study scope over a 5–10 year duration.

Task 8: Development of Final Report

- A. Compile an 8.5 x 11 format final report to document the study
- B. Document the entire process from the kick-off meeting to the final recommendations
- C. Organize all raw data into a clear format accompanied by charts, photographs, diagrams, executive summaries, and other supporting information
- D. Share an electronic draft with the Advisory Committee for review and comment prior to finalizing the report.
- E. Modify report based on owner feedback and suggestions on final draft
- F. Quality Control review of entire document
- G. Final report presented to the Advisory Committee
- H. Ongoing support from the team at Creech & Associates after conclusion of the project

A breakdown of lump sum fees by each major category is as follows:

• Task 1: Initial Scoping and Kickoff Meeting with Advisory Committee	\$10,765.00
• Task 2: Preliminary Information Gathering	\$44,253.00
• Task 3: Individual Landing Site Assessments	\$132,404.00
• Task 4: Standard Operations Manual	\$15,020.00
• Task 5: Regional Master Plan of Boating Access	\$20,195.00
• Task 6: Economic Impact Analysis	\$14,388.00
• Task 7: Capital Planning	\$23,070.00
• Task 8: Development of Final Report	\$24,421.00
<hr/>	
• Total	\$284,515.00

The Advisory Committee will be established by County leadership and will include key personnel to provide oversight and guide the study. There will be a total of six (6) meetings with the Advisory Committee included in this scope, in addition to the final presentation. There will be a total of one (1) presentation to County Council for the final report, and three (3) public outreach sessions. A recurring bimonthly conference call or net meeting will be established to maintain open communications throughout the study.

All reimbursable expenses are included in the base fee with the condition that all deliverables will be submitted in electronic format and no hard copies will be required. Any additions to the scope of work outlined in this proposal, including but not limited to site visits, presentations, deliverables, etc. will be considered an additional service and will be billed hourly per the 2021 rates listed in Attachment B. All additional services must be authorized in writing prior to commencing work.

Creech & Associates appreciates the opportunity to serve Beaufort County. If you have any questions, please feel free to contact us.

Yours truly:

Creech and Associates, PLLC



Brent J. Green, LEED AP
Principal

Accepted: David L. Thomas, CPPB, CPPO

cc: Michael Supino, AIA
file

Date

ATTACHMENT A

List of 20 boat landings to be included in the site assessment scope of work:

1. Alljoy Boat Landing	265 Alljoy Road
2. Bluffton Oyster Factory Park	75 Wharf Street
3. Brickyard Creek Boat Landing*	275 Brickyard Point Road
4. Broad River Boat Landing	1050 Robert Smalls Parkway
5. Buddy and Zoo Boat Landing	40 Station Creek Drive
6. Butcher's Island Boat Landing	10 Butcher's Road
7. C.C. Haigh, Jr. Boat Landing	1640 Fording Island Rd Extension
8. Cross Island Boat Landing	68 Helmsman Way
9. Daufuskie Island Boat Landing	13 Haig Point Road
10. Eddings Point Boat Landing*	511 Eddings Point Road
11. Edgar Glenn Boat Landing	305 Okatie Highway
12. Grays Hill Boat Landing	395 Clarendon Road
13. H.E. Trask, Sr. Boat Landing*	325 Sawmill Creek Road
14. Marshland Boat Landing	97 Marshland Road
15. Paige Point Boat Landing	99 Paige Point Landing Road
16. Parris Island Boat Landing	50 Marina Boulevard
17. Sams Point Boat Landing	1009 Sams Point Road
18. Steel Bridge Boat Landing	993 Charleston Highway
19. Sugar Hill Boat Landing	40 Sugar Hill Landing Road
20. White Hall Boat Landing	33 Sea Island Parkway

List of 6 piers to be included in the site assessment scope of work:

1. Camp St. Mary's Fishing Pier	119 Camp St. Mary's Road
2. C.C. Haigh Landing Fixed Pier	1640 Fording Island Rd Extension
3. Daufuskie Landing Fixed Pier	13 Haig Point Road
4. Factory Creek Fishing Pier	33 Sea Island Parkway
5. Old House Creek Pier	50 Sterling Point Drive
6. Whale Branch Fishing Pier	216 Seabrook Road

* Indicates boat landings currently scheduled for improvements

ATTACHMENT B

2021 Hourly Rates

CREECH & ASSOCIATES

Principal	\$200.00
Senior Designer/Associate/Team Leader	\$175.00
Project Architect	\$160.00
BIM/Technical	\$130.00
Administrative	\$90.00

JON GUERRY TAYLOR

Senior Civil Engineer	\$175.00
Civil Engineer	\$175.00
Civil Engineering Graduate	\$125.00
Engineering Designer	\$100.00
Senior Land Planner	\$175.00
Permitting/Environmental Specialist	\$175.00
Land Planner	\$105.00
Administrative	\$50.00



BEAUFORT COUNTY COUNCIL AGENDA ITEM SUMMARY

ITEM TITLE:
Request to purchase Caterpillar Model 323 Excavator w/ Long Reach (\$221,823.85)
MEETING NAME AND DATE:
Public Facilities Committee Meeting – September 20, 2021
PRESENTER INFORMATION:
Jared Fralix, P.E., Assistant County Administrator, Engineering Neil J. Desai, P.E., Public Works Director (5 Minutes)
ITEM BACKGROUND:
The Public Works 2002 Volvo 290 caught fire while on a jobsite and it was determined by the County's insurance company to be a total lost.
PROJECT / ITEM NARRATIVE:
Purchase of CAT 323 Excavator with the long reach boom. Since there is a current inventory of CAT products, maintenance costs will be streamlined. The excavator is a piece of equipment that is used in numerous different facets, it is essential to the operations of the Public Works Department.
FISCAL IMPACT:
A quote has been provided from Blanchard CAT in the amount of \$221,823.85. The funding source for this item was approved in the FY2022 budget meeting for Public Works account number 10001301-54000, additionally the insurance claim proceeds will also go towards this purchase as well.
STAFF RECOMMENDATIONS TO COUNCIL:
Public Works Director and the Fleet Manager recommend approving the purchase of the CAT 323 to replace the Volvo 290.
OPTIONS FOR COUNCIL MOTION:
Motion to either accept/deny the recommendation to approve the purchase of the Cat 323 Excavator w/ Long Reach. <i>Next Steps - A Majority Vote for Acceptance by Committee would move item forward to final acceptance by full County Council vote.</i>



BEAUFORT COUNTY GOVERNMENT-
PUBLIC WORKS & MAINTENANC
84 SHANKLIN RD
BEAUFORT, SC 29901

August 2, 2021

Attention: Katie Gottschalk

Dear Kate,

We would like to thank you for your interest in our company and our products and are pleased to quote the following for your consideration.

One (1) New Cat Model: 323 Excavators with all standard equipment in addition to the additional specifications listed below:

We wish to thank you for the opportunity of quoting on your equipment needs. This quotation is valid for 30 days, after which time we reserve the right to re-quote. If there are any questions, please do not hesitate to contact me.

Sincerely,

Wiley Murph
Machine Sales Representative

STANDARD EQUIPMENT

POWERTRAIN -C7.1e single turbo Tier 4 Final diesel -engine -Electric fuel priming pump -Reversible electric cooling fans -Two-stage fuel filtration system with -water separator and indicator -Sealed double element air filter with -integrated pre-cleaner -Biodiesel capable (up to B20) -

UNDERCARRIAGE -Grease lubricated track link -Tie down points on base frame -(ISO 15818 compliant) -

HYDRAULICS -Electronic main control valve -Auto warm up -Tandem type electronic main pump -Boom and stick regeneration circuits -Automatic two speed travel -Boom and stick drift reduction valve -Element type main hydraulic filter -

ELECTRICAL -Maintenance free battery -Centralized electrical disconnect switch -CAT product link -After engine shut down programmable -time delay LED working -lights: -One chassis mounted,one LH boom mounted -

OPERATOR ENVIRONMENT -Sound-suppressed ROPS cab -(ISO 12117-2 compliant) w/viscous mount -Increased rear window size -as emergency exit -2 inch (51mm) orange seat belt -Tilt up left side console -Automatic bi-level air conditioner -with pressurized function -Washable floor mat -Roller front sunscreen -Beacon ready -2 x 12V DC outlet and USB port -Dome and lower LED interior lights, -coat hook, cup holder, console storage -rear storage with net, and overhead -storage with net -(Deluxe cab) --Openable tempered front upper -windshield w/ assist device and -removable tempered lower windshield -with in cab storage bracket --Air suspension deluxe seat w/ headrest -w/ 2 step seat heater, console height -adjustment w/o tools, arm rest height -and angle adjustment --Upper radial wiper for 70/30 --Openable polycarbonate hatch for 2P -windshield

SAFETY AND SECURITY -RH hand rail and hand hold -(ISO 2867 compliant) -Service platform with anti-skid plate -and countersunk bolts -Hydraulic lock out lever neutralizes -all controls -Ground level accessible secondary engine -shutoff switch in cab -Signaling / warning horn -

OTHER STANDARD EQUIPMENT -Side entry to service platform -Grouped location for engine oil -and fuel filters -Ground level 2nd dipstick for engine oil -Sampling ports for scheduled oil -Sampling (S.O.S) -Remote flash -

MACHINE SPECIFICATIONS

Description	Reference No
323 07D HEX AM-N CFG2C	597-0901
INCLUDES:	
547-3691 323 07 EXCAVATOR ARRANGEMENT	
578-6724 COMMON ARRANGEMENT	
507-4824 FRAME, SWING, HD	
575-2661 COUNTERWEIGHT, 5.4MT(11,900lb)	
577-2734 BEARING, SWING, HD	
561-1743 SWING DRIVE NG,	
573-5699 UNDERCARRIAGE HD, W/SD ROLLER	
494-4986 CYLINDER, BOOM, HL	
513-3210 BOOM TUBE W/EOU	
489-2950 LINES, FRONT, STD	
513-3214 SENSOR, PRESSURE, EOU	
546-0101 CAB, DELUXE	
577-7866 LINES, AIR CONDITIONER	
490-7715 PEDAL, STRAIGHT TRAVEL	490-7715
511-9428 MONITOR, 10"	511-9428
592-8316 TRAVEL, ALARM	592-8316
577-3907 LIGHT, CHASSIS	
525-7678 MACHINE ECM	
502-7150 COOLING, HIGH AMBIENT	
488-9288 GUARD, TRAVEL MOTOR, HD	488-9288
134-8875 GUARD, SWIVEL, STD	134-8875
493-9765 FINE SWING	
520-9418 FILM, OPERATING PATTERN, 2WAY	520-9418
BOOM, REACH 18'8" HD	577-5865
STICK, R12'10"	490-7672
LINKAGE, BKT, B1 W/EYE GRADE	492-8537
CYLINDER, STICK	586-3636
CYLINDER, BKT, B1	490-4179
TRACK, 31" TG HD	526-6475
GUARD, TRACK GUIDE, SEGMENTED	526-8766
HYDRAULIC PKG, NO TOOL W/ HL	597-0798
JOYSTICKS, VERTICAL SLIDER	528-6835
LINES, DRAIN, PG QUICK COUPLER	549-8149
SUCTION LINE, PUMP, STD	489-2952
BATTERIES, 2	506-5013
LIGHTS, CAB, W/RAIN PROTECTOR	577-8973
LIGHTS PKG, BOOM LH & RH	579-5428
WIPER, RADIAL W/O LOWER	484-8021
INTEGRATED RADIO, W/O DAB	502-7166
GRADE W/2D, ASSIST&PAYLOAD	516-0550
GRADE SENSOR, REACH BOOM	516-9880
GRADE SENSOR, R12'10" STICK	516-9882
PROD LINK, PLE643/PLE743 RADIO	594-9052
NETWORK MANAGER, STD	555-7286

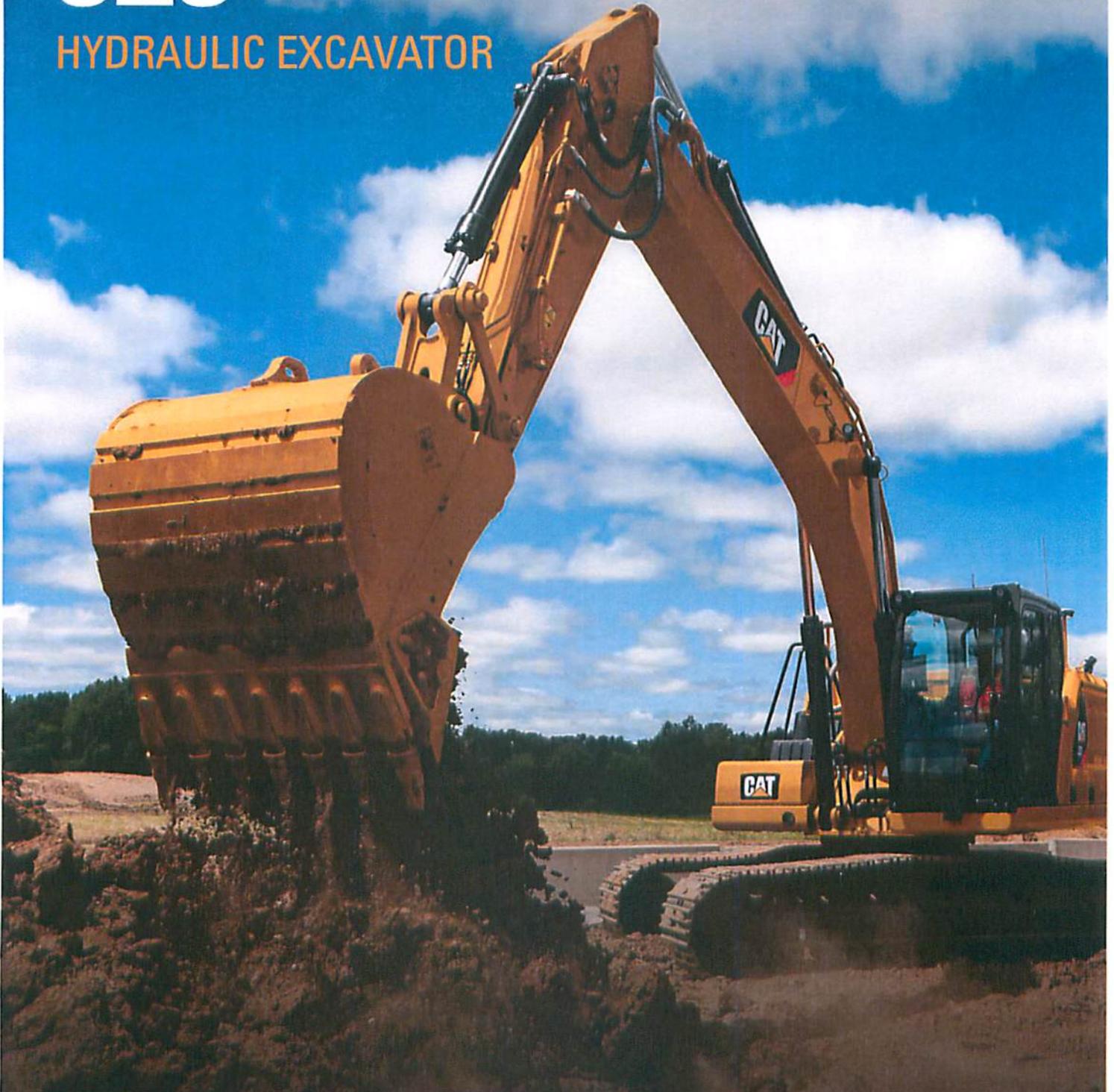
Description	Reference No
MIRROR, CAB, W/O GUARD	580-8628
DECALS, EXTERIOR, ANSI	578-2907
DECALS, STICK WARNING, ANSI	567-3815
FILM, EMC	528-4738
DECAL, ROPS	567-3816
INSTRUCTIONS, ENGLISH	0P-3380
STORAGE TRAY	576-9463
SCREEN, RADIATOR	491-8272
QUICK DRAINS READY	511-7398
CONTROL, QC	517-4758
LINES, QC, REACH BOOM	570-4691
LINES, QC, R12'10" STICK	242-6486
STORAGE PROTECTION (EXPORT)	0G-4126
ROLL ON-ROLL OFF	0G-4202
FIXTURE, BUCKET LINKAGE B1	575-8647
DECALS, CAB, ANSI	573-4351
BKT HD 48" 1.56YD3 B	552-8240
BUCKET-DC, 60" 1.32 YD3 (B)	441-6074
TIP, PENETRATION PLUS ADVANSYS	505-4097
SIDECUTTERS, HEAVY DUTY	357-2698
PIN GROUP, SPARE	172-8444
COUPLER, PG W/O PINS B	388-0067
LINES, CONNECTOR, PIN GRABBER	449-1136
KIT, MESH/NET GUARD, FULL	528-3292
CAMERA, 360 VISIBILITY	578-1166
ROCKLAND TRAPEZOID BUCKET	
CAT STIFF THUMB 603-2227	
SELL PRICE	\$221,323.85
EXT WARRANTY	Included
NET BALANCE DUE	\$221,323.85
SC SALES TAX	\$500.00
AFTER TAX BALANCE	\$221,823.85
WARRANTY	
Standard Warranty:	12 Months - Unlimited
Extended Warranty:	323-36 MO/5000 HR POWERTRAIN + HYDRAULICS + TECH

Accepted by _____ on _____

Signature

323

HYDRAULIC EXCAVATOR



Engine Power	121 kW (162 hp)
Operating Weight – 790 mm (31") Shoes	25 500 kg (56,200 lb)
Operating Weight – 600 mm (24") Shoes	23 900 kg (52,700 lb)

Cat® C7.1 Engine meets U.S. EPA Tier 4 Final and EU Stage IV emission standards with an aftertreatment system that requires no operator input or downtime.



NEXT GENERATION EXCAVATORS

The new line of Cat® Excavators was designed with a new approach to equipment families that gives you:

- + MORE MODEL OPTIONS
- + MORE STANDARD TECHNOLOGIES
- + MORE PRICE POINTS

Ready to help you make your business stronger, Cat Excavators give you new ways to get the most work done at the lowest cost—so you put more money in your pocket.



THE NEW CAT[®] 323

HIGH PRODUCTION PERFORMANCE

THE CAT 323 delivers power, speed and high production performance. With more standard technology than previous models, the highest lift capacity in the line-up, plus reduced fuel and maintenance costs, the Cat 323 has all you need to take your business to the next level.



INCREASE EFFICIENCY UP TO 45%¹

The Cat 323 offers the industry's highest level of standard factory-equipped technology, including Cat Grade with 2D, Grade with Assist and Payload.

REDUCE FUEL CONSUMPTION UP TO 20%²

A precise combination of lower engine speed and a large hydraulic pump delivers top performance while burning less fuel.

LOWER MAINTENANCE COSTS UP TO 20%³

Extended and more synchronized maintenance intervals increase uptime and reduce costs compared to the 323F.

¹ Operator efficiency gains compared to traditional grading methods.

² Compared to the 323F.

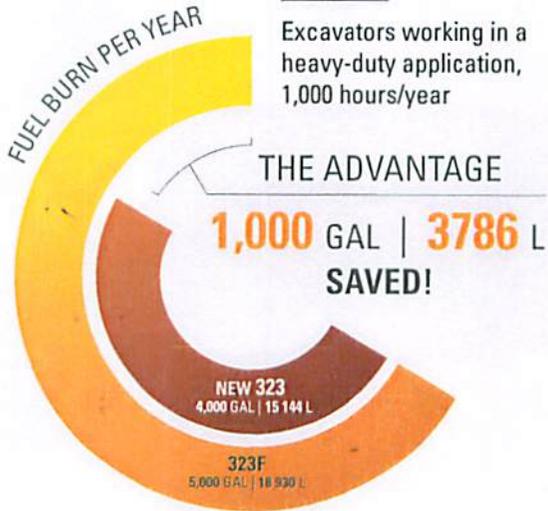
³ Cost reduction based on 12,000 hours of operation.



FUEL EFFICIENCY SAVINGS ADD UP

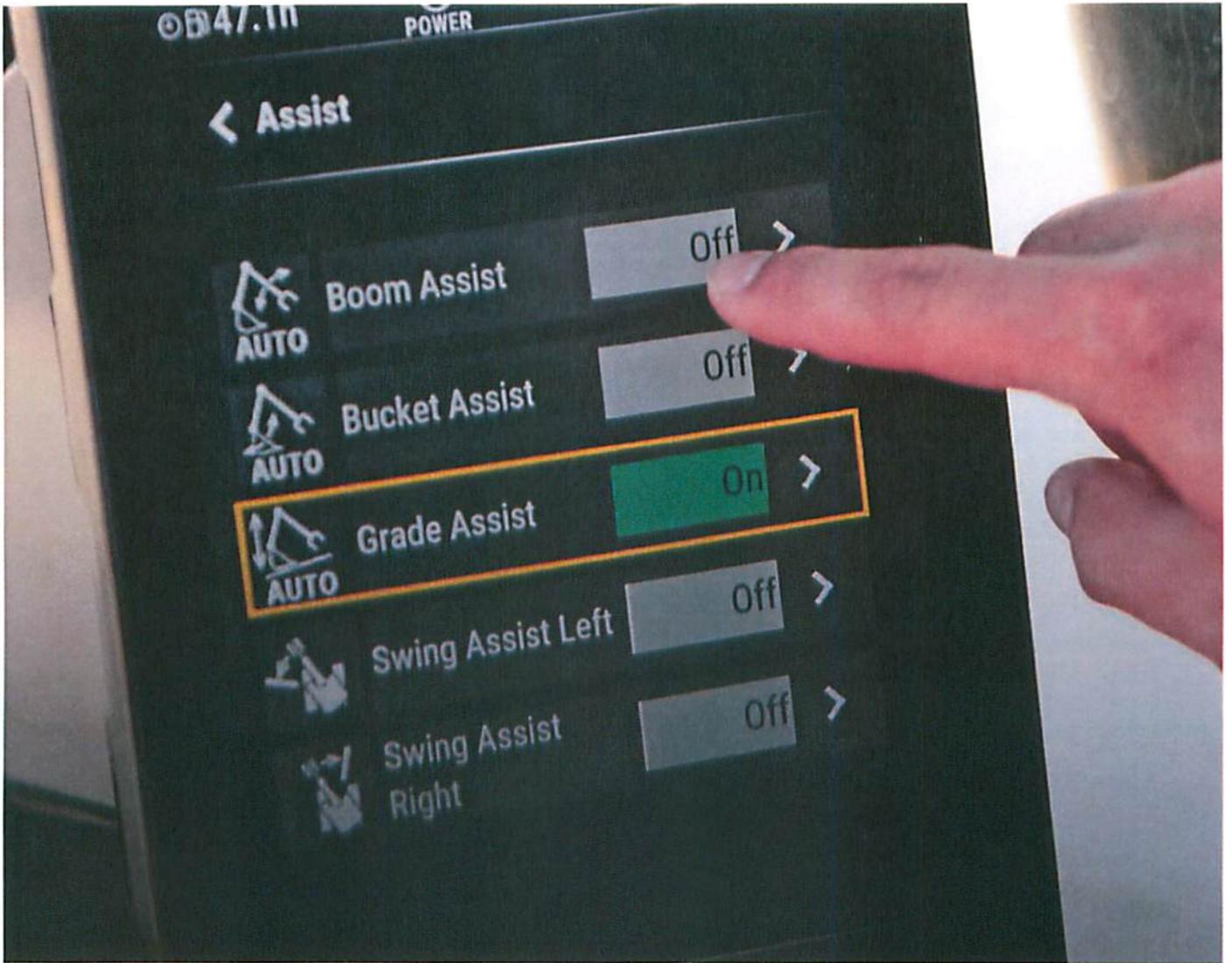
SCENARIO:

Excavators working in a heavy-duty application, 1,000 hours/year



CALCULATION:

323F:	NEW 323:
5.0 GAL/HR X 1,000 HR/YR = 5,000 GAL/YR	(5.0 GAL/HR X 80%) X 1,000 HR/YR = 4,000 GAL/YR
18.93 L/HR X 1000 HR/YR = 18 930 LYR	(18.93 L/HR X 80%) X 1000 HR/YR = 15 144 LYR



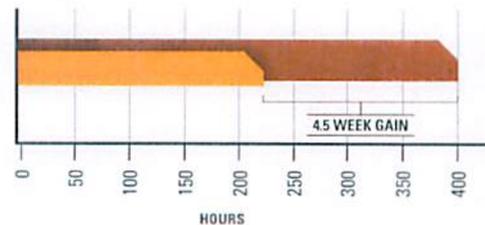
STANDARD CAT CONNECT TECHNOLOGY

GETS JOBS DONE FASTER
WITH LESS REWORK

Onboard Cat Connect Technology gives you the edge. Operators of all experience levels will dig, load and grade with more confidence, speed and accuracy. The result? Better productivity and lower costs.

WHAT WOULD YOU DO WITH 4.5 MORE WEEKS?

45% GAIN WITH TECHNOLOGY
means same amount of work done faster



- PREVIOUS YEAR:**
● **USING TRADITIONAL GRADING METHODS**
400 hours/year, grading with stakes and checkers
- CURRENT YEAR:**
● **USING NEW CAT 323 WITH CAT CONNECT TECHNOLOGY**
220 hours/year, with standard Cat Grade



INCREASE EFFICIENCY UP TO 45% WITH CAT CONNECT TECHNOLOGY

STANDARD, SIMPLE-TO-USE TECHNOLOGIES INCLUDE:



STANDARD CAT GRADE WITH 2D

Cat GRADE with 2D helps operators reach grade faster. Operators cut and fill to exact specifications without overcutting. You can program up to four of your most commonly used target depth and slope off sets so you can get to grade with ease—a real time saver on the job site. Best of all, no grade checkers are needed so the work area is safer.



STANDARD CAT GRADE WITH ASSIST

Automated boom, stick and bucket movements deliver more accurate cuts with less effort. The operator simply sets the depth and slope into the monitor and activates single-lever digging.



STANDARD CAT PAYLOAD

Cat PAYLOAD technology delivers precise load targets with on-the-go weighing, which helps prevent over/under-loading and maximizes efficiency. Automated tracking helps manage production and lower cost.

AVAILABLE OPTIONAL UPGRADES

Cat GRADE with Advanced 2D and Cat GRADE with 3D increase productivity and expand grading capabilities. GRADE with Advanced 2D adds in-field design capabilities through an additional 10-inch (254 mm) high-resolution touchscreen monitor. GRADE with 3D adds GPS and GLONASS positioning for pinpoint accuracy. Use the excavator's onboard cell technology to quickly connect to 3D services like Trimble Connected Community or Virtual Reference Station.

REAL-TIME INFORMATION FROM CAT LINK

TAKE THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

Cat Link hardware (Product Link™) and software (VisionLink®) work together to put equipment information at your fingertips. Get real-time access to information on every machine in your fleet on any jobsite—no matter the size of the operation or the brands of equipment you run.



PRODUCT LINK™

Track asset location, hours, fuel usage, diagnostic codes, idle time and more to improve your productivity and lower your operating costs. Cellular connectivity comes standard. Satellite connectivity is available.



VISIONLINK®

Using the online VisionLink interface, you can see a common, collective view of your information, making it easier to manage a mixed fleet and make informed decisions about your equipment.



MY.CAT.COM

You can also access Caterpillar and Cat dealer information at my.cat.com. My.cat.com gives you access to PM schedules, parts and service records, warranty coverage and more—with a single login. Plus, you can link directly to your VisionLink account.

NEW CAB TAKES THE HARD OUT OF WORK

Sites where excavators typically work are rugged and challenging. That's why it's important that the 323 cab protects the operator as much as possible from the fatigue, stresses, sounds and temperatures of the job.



NEW SEAT AND JOYSTICK CONSOLE REDUCE FATIGUE

Comfort and efficiency of movement keep operators productive and alert all shift long. The new standard seat is wide and adjustable for operators of virtually any size. The Deluxe cab package includes a heated air suspension seat; the Premium seat is both heated and cooled.



TOUCHSCREEN MONITOR

Most machine settings can be controlled through the high-resolution 10-inch/254 mm touchscreen monitor. It offers 42 languages and is easy to reach from the seat—no twisting or turning.



NEW SMART MODE

The new Smart Mode (one of three power mode settings) automatically adjusts engine and hydraulic power for the highest fuel efficiency—less power for tasks such as swinging and more power for digging.



CUSTOMIZABLE JOYSTICKS

Joystick function can be customized through the monitor. Joystick pattern as well as response can be set to match operator preference. All preferences are saved with the Operator ID and restored at log-in.



KEYLESS PUSH START

The 323 uses a keyless push-button engine start. This adds security for the machine by using Operator ID codes to limit and track machine access. Codes can be entered manually, via an optional Bluetooth® key fob or smartphone app.





A QUIET, SAFE WORKSPACE

BUILDS OPERATOR CONFIDENCE

ISO-CERTIFIED ROPS CAB

The ISO-certified ROPS cab is sound-suppressed and sealed. The windows and lower front profile of the machine give outstanding visibility to the work area without the strain of constantly leaning forward.

ALL-AROUND VISIBILITY

Standard rearview and right-side-view cameras keep operators aware of their surroundings at all times. An optional 360° Visibility feature is also available.

EASY ACCESS, CONNECTIVITY AND STORAGE

Convenience features include Bluetooth integrated radio, USB ports for charging and phone connectivity, 12V DC outlets and AUX port, storage in rear, overhead and console compartments, and cup and bottle holders.



SAFETY FEATURES

LOOK OUT FOR YOUR PEOPLE AND YOUR EQUIPMENT

Daily maintenance checks can be performed with 100% of the points accessible from ground level, making maintenance faster, easier and safer. Checkpoints include the engine oil dipstick, fuel water separator, fuel tank water and sediment drains, and cooling system coolant level check.

LIFT ASSIST

Lift Assist helps you avoid tipping. With visual and auditory alerts, you'll know if your load is within the excavator's safe working range limits.



STAY SAFE EVERY DAY

FACT:

#1 cause of construction accidents: **FALLS***

49% OF FALLS RESULT
IN SERIOUS INJURY

30% OF FALLS RESULT
IN DEATH

FALLS



NEW 323

100% GROUND-LEVEL
MAINTENANCE
HELPS PREVENT FALLS

*<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4962179/>



E-WALL SWING

E-WALL FORWARD

E-WALL CAB PROTECTION

E-WALL CEILING

E-WALL FLOOR

STANDARD 2D E-FENCE TECHNOLOGY

The standard 2D E-fence feature automatically stops excavator motion using boundaries you set in the monitor for the entire working envelope—above, below, sides and front. E-fence features protect equipment from damage and reduce fines related to zoning or underground utility damage. Automatic boundaries even help prevent operator fatigue by reducing over-swinging and over-digging.



**LOWER MAINTENANCE COSTS
UP TO 20%**

With extended and more synchronized maintenance intervals, you get more done at a lower cost compared to the 323F. Consolidated filter locations make service faster. Hydraulic, air and fuel tank filters have increased capacity and longer life.

KEY MAINTENANCE COST REDUCTIONS INCLUDE:

- + Consolidated filter locations to reduce service time.
- + Multiple oil filters with extended maintenance intervals, plus a new higher dirt capacity hydraulic filter.
- + The new Cat air filter design results in a 100% increase in service life compared to our previous filter.
- + Fuel filters are synchronized to be changed at 1,000 hours—double the interval from the previous filters.

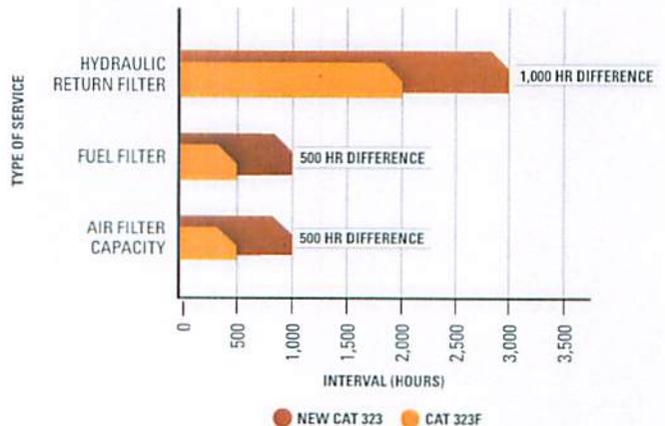


STOP LESS. WORK MORE.

WITH THE NEW 323, YOU'LL USE

66 FEWER FILTERS*

EXTENDED INTERVALS INCREASE UPTIME



*Based on 12,000 operating hours.

INCREASE YOUR PRODUCTIVITY AND PROFIT WITH CAT ATTACHMENTS

You can easily expand the performance of your machine by utilizing any of the variety of Cat Attachments. Each Cat Attachment is designed to fit the weight and horsepower of Cat Excavators for improved performance, safety and stability.

BUCKETS



GRAPPLES



HYDRAULIC HAMMERS



MULTI-PROCESSORS



QUICK COUPLERS



RAKES



RIPPERS



SECONDARY PULVERIZERS



SHEARS



THUMBS



VIBRATORY PLATE
COMPACTORS



Did you know you can find your attachments quickly and easily? The excavator's onboard Bluetooth reader can search for any work tool equipped with Cat asset tracking devices up to a range of 60 meters (200 feet).

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE		
Engine Model	Cat C7.1	
Engine Power – ISO 9249	121 kW	162 hp
Engine Power – ISO 14396	122 kW	164 hp
Bore	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7 L	428 in ³
HYDRAULIC SYSTEM		
Main System – Maximum Flow (Implement)	429 L/min	113 gal/min
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 psi
Maximum Pressure – Equipment – Heavy Lift Mode	38 000 kPa	5,510 psi
Maximum Pressure – Travel	34 300 kPa	4,974 psi
Maximum Pressure – Swing	26 800 kPa	3,886 psi
MACHINE WEIGHT		
Operating Weight – 790 mm (31") Shoes	25 500 kg	56,200 lb
HD reach boom, R2.9 m (9'6") HD stick, 1.38 m ³ (1.81 yd ³) HD bucket, 790 mm (31") triple grouser HD shoes, 5.4 mt (11,900 lb) counterweight.		
Operating Weight – 600 mm (24") Shoes	23 900 kg	52,700 lb
Reach boom, R2.9 m (9'6") stick, 1.30 m ³ (1.70 yd ³) GD bucket, 600 mm (24") triple grouser HD shoes, 5.4 mt (11,900 lb) counterweight.		
SERVICE REFILL CAPACITIES		
Fuel Tank	345 L	86.6 gal
Cooling System	25 L	6.6 gal
Engine Oil	25 L	6.6 gal
Swing Drive (each)	5 L	1.3 gal
Final Drive (each)	5 L	1.3 gal
Hydraulic System (including tank)	234 L	61.8 gal
Hydraulic Tank	115 L	30.4 gal
DEF Tank	41 L	10.8 gal

DIMENSIONS		
Boom	Reach 5.7 m (18'8")	
Stick	Reach 2.9 m (9'6")	
Bucket	1.19 m³ (1.56 yd³)	
Shipping Height (top of cab)	2960 mm	9'9"
Handrail Height	2950 mm	9'9"
Shipping Length	9530 mm	31'3"
Tail Swing Radius	2830 mm	9'3"
Track Length	4450 mm	14'7"
Length to Center of Rollers	3650 mm	12'0"
Ground Clearance	470 mm	1'7"
Track Gauge	2380 mm	7'9"
Transport Width – 600 mm (24") Shoes	2980 mm	9'9"
Transport Width – 790 mm (31") Shoes	3170 mm	10'5"
Counterweight Clearance	1050 mm	3'5"

WORKING RANGES AND FORCES		
Boom	Reach 5.7 m (18'8")	
Stick	Reach 2.9 m (9'6")	
Bucket	1.19 m³ (1.56 yd³)	
Maximum Digging Depth	6720 mm	22'1"
Maximum Reach at Ground Level	9860 mm	32'4"
Maximum Cutting Height	9370 mm	30'9"
Maximum Loading Height	6490 mm	21'4"
Minimum Loading Height	2170 mm	7'1"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6550 mm	21'6"
Maximum Vertical Wall Digging Depth	5190 mm	17'0"
Bucket Digging Force (ISO)	150 kN	38,811 lbf
Stick Digging Force (ISO)	106 kN	23,911 lbf

AIR CONDITIONING SYSTEM

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.9 kg of refrigerant which has a CO₂ equivalent of 1.287 metric tonnes.

CAB FEATURES

FEATURE	DESCRIPTION	DELUXE	PREMIUM
ROPS	Standard Sound Suppression	•	x
	Advanced Sound Suppression	x	•
High-Resolution Monitor	254 mm (10 inch) Touchscreen	•	•
Keyless Push-to-Start	Engine Control	•	•
Jog Dial, Shortcut Keys	Monitor Control	•	•
Air Conditioning	Automatic Bi-level	•	•
Suspension Seat with Seat Belt	Air Adjustable	•	•
	Automatic	x	•
	Heated	•	x
	Heated & Cooled	x	•
Console	Infinitely Adjustable	•	•
	Tilt-Up Left Side	•	•
Bluetooth Integrated Radio	With USB Ports	•	•

• - standard x - not available

STANDARD & OPTIONAL EQUIPMENT

Standard and optional equipment may vary. Consult your Cat dealer for details.

CAB	STANDARD	OPTIONAL	BOOM AND STICKS	STANDARD	OPTIONAL
ROPS, standard sound suppression (Deluxe only)	•		5.7 m (18'8") reach boom, 2.9 m (9'6") stick	•	
ROPS, advanced sound suppression (Premium only)	•		5.7 m (18'8") HD reach boom, 2.9 m (9'6") HD stick		•
Air-adjustable seat with heat (Deluxe only)	•		8.85 m (29'0") super long reach boom, 6.28 m (20'7") stick		•
Auto-adjustable seat with heat and air ventilation (Premium only)	•				
High-resolution 254 mm (10 in) LCD touchscreen monitor	•				
CAT CONNECT TECHNOLOGY	STANDARD	OPTIONAL	UNDERCARRIAGE AND STRUCTURES	STANDARD	OPTIONAL
Cat Product Link	•		600 mm (24") triple grouser shoes		•
Cat GRADE with 2D	•		700 mm (28") triple grouser shoes		•
Cat GRADE with Advanced 2D		•	790 mm (31") triple grouser shoes		•
Cat GRADE with 3D		•	900 mm (35") triple grouser shoes		•
Cat GRADE with Assist	•		Tie-down points on base frame	•	
Cat PAYLOAD	•		4200 kg (9,300 lb) counterweight		•
2D E-fence	•		5400 kg (11,900 lb) counterweight	•	
Remote Flash capability	•				
Remote Troubleshoot capability	•		ELECTRICAL SYSTEM	STANDARD	OPTIONAL
			Two 1,000 CCA maintenance-free batteries	•	
			Programmable time-delay LED working lights	•	
			LED chassis light, left-hand/right-hand boom lights, cab lights	•	
ENGINE	STANDARD	OPTIONAL	SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Three selectable power modes	•		Sampling ports for Scheduled Oil Sampling (S-O-S)	•	
Auto engine idle shutdown	•		Ground-level and platform-level engine oil dipsticks	•	
52° C (125° F) high-ambient cooling capacity	•				
-32° C (-25° F) cold start capability		•	SAFETY AND SECURITY	STANDARD	OPTIONAL
Double element air filter with integrated precleaner	•		Rearview camera	•	
Reversing electric cooling fans	•		Right-side-view camera	•	
Biodiesel capability up to B20	•		360° visibility		•
			Lift Assist	•	
HYDRAULIC SYSTEM	STANDARD	OPTIONAL	Cat asset tracker	•	
Boom and stick regeneration circuits	•		Ground-level engine shutoff switch	•	
Boom and stick lowering check valves		•	Right-hand handrail and hand hold	•	
Auto hydraulic warm up	•		Signaling/warning horn	•	
Auto two-speed travel	•				
Boom and stick drift reduction valve	•				
Hammer return filter circuit		•			
Advanced Tool Control (two pump, one/two way high-pressure flow)	• ¹	•			
Medium-pressure circuit		•			
Quick coupler circuit for Cat Pin Grabber	• ²	•			

¹ ANZ and Europe only.

² Europe only.

Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area.

For additional information, refer to the Technical Specifications brochures for the 320 GC, 320 and 323 models available at www.cat.com or your Cat dealer.

For more complete information on Cat products, dealer services and industry solutions, visit us on the web at www.cat.com

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VisionLink is a trademark of Trimble Navigation Limited, registered in the United States and in other countries.

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Yellow", the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.
www.cat.com www.caterpillar.com

AEXQ2331-02
Replaces AEXQ2331-01
Build Number: 07B



323

Hydraulic Excavator

Technical Specifications

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

Table of Contents

Specifications	2
Engine	2
Swing Mechanism	2
Weights	2
Track	2
Drive	2
Hydraulic System	2
Service Refill Capacities	2
Sound Performance	2
Standards	2
Operating Weights and Ground Pressures	3
Major Component Weights	4
Dimensions	5
Working Ranges	6
HD Reach Boom Lift Capacities	8
Reach Boom Lift Capacities	8
SLR Boom Lift Capacities	11
Bucket Specifications and Compatibility	13
Attachments Offering Guide	15
Thumb Specifications	18
Standard and Optional Equipment	19
Dealer Installed Kits and Attachments	22

323 Hydraulic Excavator Specifications

Engine

Engine Model	Cat® C7.1	
Net Power (ISO 9249)	128 kW	172 hp
Engine Power (ISO 14396)	129 kW	174 hp
Bore	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7.01 L	428 in ³

- The 323 meets U.S. EPA Tier 4 Final emission standards.
- Recommended for use up to 4500 m (14,764 ft) altitude with engine power derate above 3000 m (9,842.5 ft).
- Net power is tested per ISO 9249. Standards in effect at the time of manufacture.
- Net Power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator.
- Rated speed at 2,200 rpm.

Swing Mechanism

Swing Speed	11.25 rpm	
Maximum Swing Torque	82 kN·m	60,300 lbf-ft

Weights

Operating Weight	25 500 kg	56,200 lb
------------------	-----------	-----------

- 5400 kg (11,900 lb) counterweight, HD Reach boom, R2.9 (9'6") HD Thumb Ready Reach stick, HD 1.38 m³ (1.81 yd³) bucket and 790 mm (31 in) HD shoes.

Track

Standard Track Shoe Width	790 mm	31 in
Optional Track Shoe Width	600 mm	24 in
Number of Shoes (each side)	49	
Number of Track Rollers (each side)	8	
Number of Carrier Rollers (each side)	2	

Drive

Gradeability	35°/70%	
Maximum Travel Speed	5.7 km/h	3.5 mph
Maximum Drawbar Pull – Long Undercarriage	203 kN	45,614 lbf

Hydraulic System

Main System – Maximum Flow – Implement	429 L/min (214.5 × 2 pumps)	113 gal/min (56.5 × 2 pumps)
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 psi
Maximum Pressure – Equipment – Lift Mode	38 000 kPa	5,510 psi
Maximum Pressure – Travel	34 300 kPa	4,974 psi
Maximum Pressure – Swing	27 500 kPa	3,998 psi
Boom Cylinder – Bore	120 mm	4.7 in
Boom Cylinder – Stroke	1260 mm	49.6 in
Stick Cylinder – Bore	140 mm	5.5 in
Stick Cylinder – Stroke	1504 mm	59.2 in
Bucket Cylinder – Bore	120 mm	4.7 in
Bucket Cylinder – Stroke	1104 mm	43.5 in

Service Refill Capacities

Fuel Tank Capacity	345 L	86.6 gal
Cooling System	25 L	6.6 gal
Engine Oil	25 L	6.6 gal
Swing Drive (each)	12 L	3.2 gal
Final Drive (each)	5 L	1.3 gal
Hydraulic System (including tank)	234 L	61.8 gal
Hydraulic Tank	115 L	30.4 gal
DEF Tank	41 L	10.8 gal

Sound Performance

ISO 6395:2008 (external)	100 dB(A)
ISO 6396:2008 (inside cab)	70 dB(A)

- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment.

Standards

Brakes	ISO 10265:2008
Cab/ROPS	ISO 12117-2:2008
FOGS (optional)	ISO 10262-2:1998

323 Hydraulic Excavator Specifications

Item 9.

Operating Weights and Ground Pressures

	790 mm (31 in) HD Triple Grouser Shoes			
	Weight		Ground Pressure	
	kg	lb	kPa	psi
5.4 mt (11,900 lb) Counterweight + Base Machine				
HD Reach Boom, R2.9 (9'6") HD Thumb Ready Reach Stick, 1.38 m ³ (1.81 yd ³) HD Bucket	25 600	56,400	35.5	5.1
Super Long Reach Boom + 6.28A (20'7") Super Long Reach Stick + 0.53 m ³ (0.69 yd ³) GD Bucket	25 100	55,300	39.7	5.7
4.2 mt (9,300 lb) Counterweight + Base Machine				
Reach Boom + R2.9 (9'6") Reach Stick + 1.19 m ³ (1.56 yd ³) HD Bucket	22 900	50,500	36.2	5.2

All operating weights include a 90% fuel tank with 75 kg (165 lb) operator.

323 Hydraulic Excavator Specifications

Item 9.

Major Component Weights

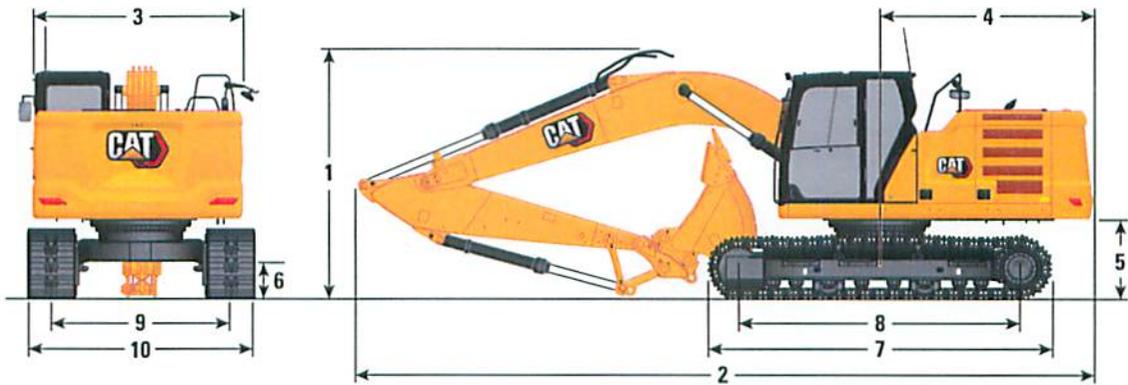
	kg	lb
Base Machine (with 4.2 mt [9,300 lb] counterweight, semi-HD swing frame, standard base frame with HD track rollers and standard carrier rollers for long undercarriage, without boom cylinder – does not include 90% fuel and 75 kg [165 lb] operator)	14 800	32,600
Base Machine (with 5.4 mt [11,900 lb] counterweight, HD swing frame, HD base frame with SD track rollers and standard carrier rollers for long undercarriage, without boom cylinder – does not include 90% fuel and 75 kg [165 lb] operator)	16 700	36,800
Track Shoes:		
600 mm (24 in) Width, 14 mm (0.55 in) Thick Single Grouser Track Shoes for Long Undercarriage	3090	6,800
790 mm (31 in) Width, 12.5 mm (0.49 in) Thick Triple Grouser HD Track Shoes for Long Undercarriage with Step Extension for ISO 2867	3800	8,400
Boom Cylinders	340	750
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	310	680
Counterweights:		
4.2 mt Counterweight	4200	9,300
5.4 mt Counterweight for Thumb Ready Reach and Super Long Reach Sticks	5400	11,900
Swing Frame:		
Semi-HD Swing Frame	1910	4,210
HD Swing Frame, for Thumb Ready Reach and Super Long Reach Sticks	2090	4,600
Undercarriage:		
Standard Base Frame with HD Track Rollers and Standard Carrier Rollers for Long Undercarriage	4420	9,700
HD Base Frame with SD Track Rollers and Standard Carrier Rollers for Long Undercarriage	4470	9,900
Booms (including lines, pins, stick cylinder):		
Reach Boom (5.7 m/18'8")	1710	3,800
HD Reach Boom (5.7 m/18'8")	2010	4,400
Super Long Reach Boom (8.85 m/29'0")	2170	4,800
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
Reach Stick (R3.9B1/12'10")	1300	2,900
Reach Stick (R2.9B1/9'6")	990	2,200
HD Thumb Ready Reach Stick (R2.9B1/9'6")	1300	2,900
Super Long Reach Stick (6.28A/20'7")	1340	3,000
Buckets (without linkage):		
1.19 m ³ (1.56 yd ³) HD	960	2,100
1.38 m ³ (1.81 yd ³) HD	1040	2,300
0.57 m ³ (0.75 yd ³) DC	390	900
0.53 m ³ (0.69 yd ³) GD	410	900
Quick Coupler:		
Pin Grabber QC	390	850

323 Hydraulic Excavator Specifications

Item 9.

Dimensions

All dimensions are approximate and may vary depending on bucket selection.



Boom Options	Reach* Boom 5.7 m (18'8")		Reach Boom 5.7 m (18'8")		Super Long Reach Boom 8.85 m (29'0")	
Stick Options	Reach* Stick R2.9B1 (9'6")		Reach Stick R3.9B1 (12'10")		Super Long Reach Stick 6.28A (20'7")	
1 Machine Height:						
Top of Cab Height	2960 mm	9'9"	2960 mm	9'9"	2960 mm	9'9"
Top of FOGS Height	3100 mm	10'2"	3100 mm	10'2"	3100 mm	10'2"
Handrails Height	2950 mm	9'8"	2950 mm	9'8"	2950 mm	9'8"
With Boom/Stick/Bucket Installed	3160 mm	10'4"	3470 mm	11'5"	3190 mm	10'5"
With Boom/Stick Installed	2910 mm	9'7"	3190 mm	10'6"	3070 mm	10'1"
With Boom Installed	2480 mm	8'2"	2480 mm	8'2"	2650 mm	8'9"
2 Machine Length:						
With Boom/Stick/Bucket Installed	9530 mm	31'3"	9500 mm	31'2"	12 750 mm	41'10"
With Boom/Stick Installed	9500 mm	31'2"	9530 mm	31'3"	12 760 mm	41'10"
With Boom Installed	8450 mm	27'9"	8450 mm	27'9"	8920 mm	29'3"
3 Upperframe Width without Walkways	2780 mm	9'1"	2780 mm	9'1"	2780 mm	9'1"
4 Tail Swing Radius	2830 mm	9'3"	2830 mm	9'3"	2830 mm	9'3"
5 Counterweight Clearance	1050 mm	3'5"	1050 mm	3'5"	1050 mm	3'5"
6 Ground Clearance	470 mm	1'7"	470 mm	1'7"	470 mm	1'7"
7 Track Length	4450 mm	14'7"	4450 mm	14'7"	4450 mm	14'7"
8 Length to Center of Rollers	3650 mm	12'0"	3650 mm	12'0"	3650 mm	12'0"
9 Track Gauge	2380 mm	7'9"	2380 mm	7'9"	2380 mm	7'9"
10 Undercarriage Width:						
600 mm (24 in) Shoes	2980 mm	9'9"	2980 mm	9'9"	2980 mm	9'9"
790 mm (31 in) Shoes	3170 mm	10'5"	3170 mm	10'5"	3170 mm	10'5"
Bucket Type	HD		HD		GD	
Bucket Capacity	1.14 m ³	1.50 yd ³	1.19 m ³	1.56 yd ³	0.53 m ³	0.69 yd ³
Bucket Tip Radius	1470 mm	4'10"	1570 mm	5'2"	1230 mm	4'0"

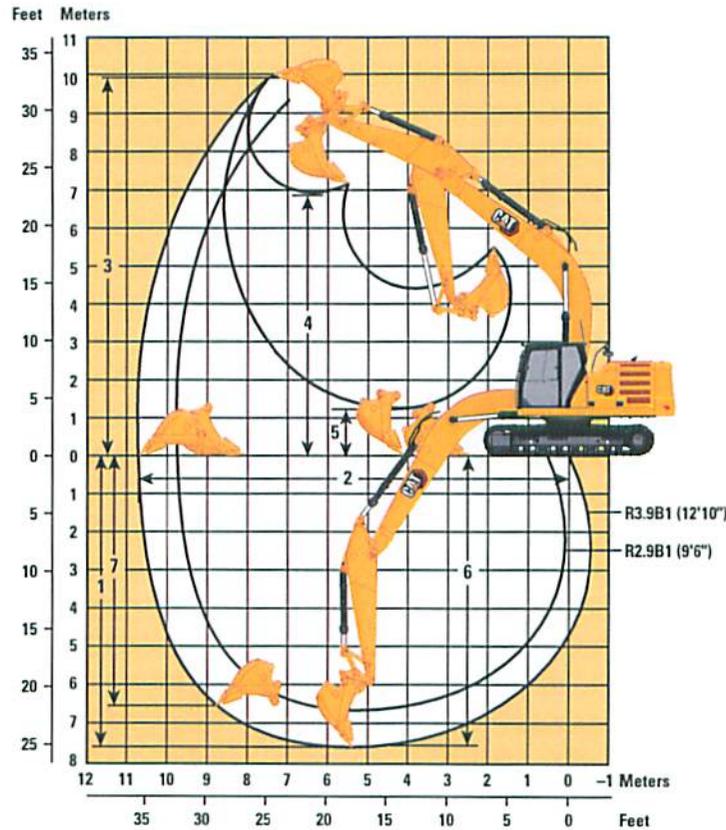
*Reach has same data as HD Reach.

323 Hydraulic Excavator Specifications

Item 9.

Working Ranges

All dimensions are approximate and may vary depending on bucket selection.

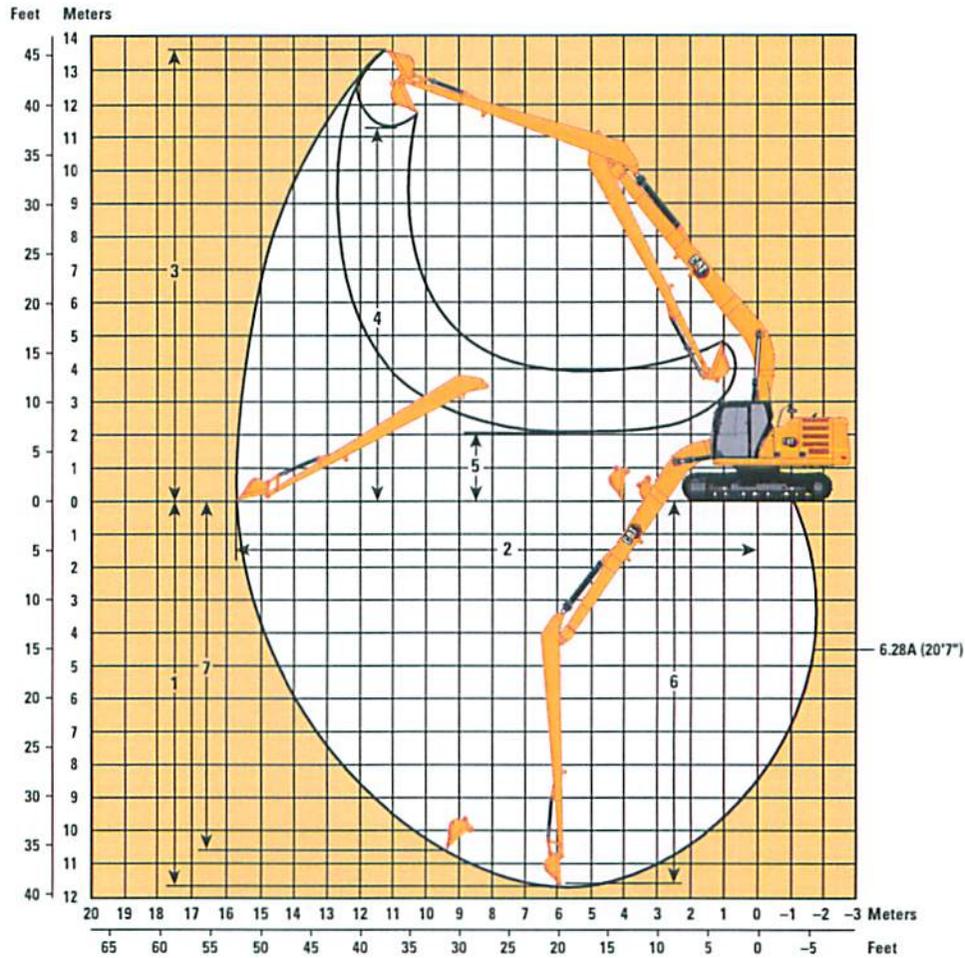


Boom Options	Reach* Boom 5.7 m (18'8")		Reach Boom 5.7 m (18'8")	
Stick Options	Reach* Stick R2.9B1 (9'6")		Reach Stick R3.9B1 (12'10")	
1 Maximum Digging Depth	6620 mm	21'9"	7670 mm	25'2"
2 Maximum Reach at Ground Line	9760 mm	32'0"	10 770 mm	35'4"
3 Maximum Cutting Height	9330 mm	30'7"	9910 mm	32'6"
4 Maximum Loading Height	6590 mm	21'7"	6930 mm	22'9"
5 Minimum Loading Height	2270 mm	7'5"	1220 mm	4'0"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6440 mm	21'2"	7530 mm	24'8"
7 Maximum Vertical Wall Digging Depth	5360 mm	17'7"	6640 mm	21'9"
Bucket Digging Force (ISO)	163 kN	36,711 lbf	140 kN	31,505 lbf
Stick Digging Force (ISO)	109 kN	24,486 lbf	87 kN	19,666 lbf
Bucket Type	HD		HD	
Bucket Capacity	1.14 m ³	1.50 yd ³	1.19 m ³	1.56 yd ³
Bucket Tip Radius	1470 mm	4'10"	1570 mm	5'2"

*Reach has same data as HD Reach.

Working Ranges

All dimensions are approximate and may vary depending on bucket selection.

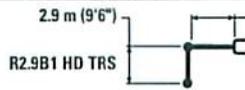


Boom Option	SLR Boom 8.85 m (29'0")	
Stick Options	SLR Stick 6.28A (20'7")	
1 Maximum Digging Depth	11 540 mm	37'10"
2 Maximum Reach at Ground Line	15 570 mm	51'1"
3 Maximum Cutting Height	13 540 mm	44'5"
4 Maximum Loading Height	11 440 mm	37'6"
5 Minimum Loading Height	2240 mm	7'4"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	11 440 mm	37'6"
7 Maximum Vertical Wall Digging Depth	11 020 mm	36'2"
Bucket Digging Force (ISO)	62 kN	13,841 lbf
Stick Digging Force (ISO)	49 kN	10,966 lbf
Bucket Type	DC	
Bucket Capacity	0.57 m ³	0.75 yd ³
Bucket Tip Radius	1070 mm	3'6"

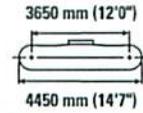
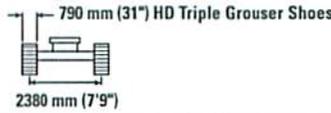
323 Hydraulic Excavator Specifications

Item 9.

HD Reach Boom Lift Capacities – Counterweight: 5.4 mt (11,900 lb) – without Bucket – Heavy Lift: On

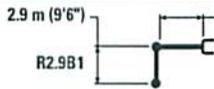


HD 5.7 m (18'8")

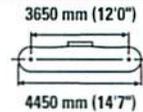
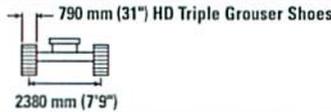


Reach Boom Configuration	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		Reach Boom Configuration		m ft	
	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567		
7.5 m 25.0 ft	kg lb						*4900	*4900			*4250	*4250	6.15 20.00	
6.0 m 20.0 ft	kg lb						*5350	*5350			*3900	*3900	7.29 24.17	
4.5 m 15.0 ft	kg lb						*5900	*5900	*5500	4500	*3850	*3850	7.99 26.67	
3.0 m 10.0 ft	kg lb					*8600	*8600	*6750	6100	*5900	*3950	*3750	8.36 27.50	
1.5 m 5.0 ft	kg lb					*10 400	8700	*7650	5850	*6350	4300	*4150	3650	8.45 28.33
0 m 0 ft	kg lb			*6550	*6550	*11 400	8400	*8300	5650	6450	4200	*4600	3700	8.26 27.50
-1.5 m -5.0 ft	kg lb	*7000	*7000	*11 350	*11 350	*11 500	8350	*8500	5600	6400	4150	*5400	4000	7.78 25.83
-3.0 m -10.0 ft	kg lb	*12 050	*12 050	*15 300	*15 300	*10 800	8400	*8000	5600			*6550	4650	6.95 23.33
-4.5 m -15.0 ft	kg lb	*27,000	*27,000	*26,050	*26,050	*18,600	18,550	*17,200	12,100			*14,500	14,350	5.60 18.33

Reach Boom Lift Capacities – Counterweight: 5.4 mt (11,900 lb) – without Bucket – Heavy Lift: On



5.7 m (18'8")



Reach Boom Configuration	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		Reach Boom Configuration		m ft	
	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567		
7.5 m 25.0 ft	kg lb						*4950	*4950			*4300	*4300	6.15 20.00	
6.0 m 20.0 ft	kg lb						*5450	*5450			*3950	*3950	7.29 24.17	
4.5 m 15.0 ft	kg lb						*6000	*6000	*5650	4600	*3900	*3900	7.99 26.67	
3.0 m 10.0 ft	kg lb					*8750	*8750	*6900	6200	*6050	4500	*4000	3850	8.36 27.50
1.5 m 5.0 ft	kg lb					*10 650	8850	*7850	5950	*6500	4400	*4250	3750	8.45 28.33
0 m 0 ft	kg lb			*6600	*6600	*11 650	8600	*8500	5800	6550	4300	*4700	3800	8.26 27.50
-1.5 m -5.0 ft	kg lb	*7050	*7050	*11 400	*11 400	*11 750	8550	*8700	5750	6550	4300	*5500	4100	7.78 25.83
-3.0 m -10.0 ft	kg lb	*12 100	*12 100	*15 600	*15 600	*11 000	8600	*8200	5750			*6700	4800	6.95 23.33
-4.5 m -15.0 ft	kg lb	*27,100	*27,100	*26,700	*26,700	*19,100	18,900	*17,650	12,450			*14,950	14,650	5.60 18.33



ISO 10567



* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

TRS = Thumb Ready Stick

Always refer to the appropriate Operation and Maintenance Manual for specific product information.
Lift capacity stays with +5% for all available track shoes.

*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

3.9 m (12'10")		R3.9B1		2380 mm (7'9")		4450 mm (14'7")	
5.7 m (18'8")		790 mm (31") HD Triple Grouser Shoes		3650 mm (12'0")		4450 mm (14'7")	
7.5 m	kg	3000	3000	3000	3000	3000	3000
7.5 m	lb	6600	6600	6600	6600	6600	6600
6.0 m	kg	2800	2800	2800	2800	2800	2800
6.0 m	lb	6150	6150	6150	6150	6150	6150
4.5 m	kg	2750	2750	2750	2750	2750	2750
4.5 m	lb	6050	6050	6050	6050	6050	6050
15.0 ft	kg	2800	2800	2800	2800	2800	2800
15.0 ft	lb	6150	6150	6150	6150	6150	6150
3.0 m	kg	9800	9800	9800	9800	9800	9800
3.0 m	lb	21500	21500	21500	21500	21500	21500
1.5 m	kg	9800	9800	9800	9800	9800	9800
1.5 m	lb	21500	21500	21500	21500	21500	21500
0 m	kg	8100	8100	8100	8100	8100	8100
0 m	lb	17800	17800	17800	17800	17800	17800
0 ft	kg	8100	8100	8100	8100	8100	8100
0 ft	lb	17800	17800	17800	17800	17800	17800
-1.5 m	kg	6050	6050	6050	6050	6050	6050
-1.5 m	lb	13350	13350	13350	13350	13350	13350
-3.0 m	kg	9400	9400	9400	9400	9400	9400
-3.0 m	lb	20700	20700	20700	20700	20700	20700
-10.0 ft	kg	9400	9400	9400	9400	9400	9400
-10.0 ft	lb	20700	20700	20700	20700	20700	20700
-4.5 m	kg	13650	13650	13650	13650	13650	13650
-4.5 m	lb	30050	30050	30050	30050	30050	30050
-15.0 ft	kg	13650	13650	13650	13650	13650	13650
-15.0 ft	lb	30050	30050	30050	30050	30050	30050
-6.0 m	kg	14700	14700	14700	14700	14700	14700
-6.0 m	lb	32400	32400	32400	32400	32400	32400
	kg	14700	14700	14700	14700	14700	14700
	lb	32400	32400	32400	32400	32400	32400
	kg	14700	14700	14700	14700	14700	14700
	lb	32400	32400	32400	32400	32400	32400
	kg	14700	14700	14700	14700	14700	14700
	lb	32400	32400	32400	32400	32400	32400
	kg	14700	14700	14700	14700	14700	14700
	lb	32400	32400	32400	32400	32400	32400

Reach Boom Lift Capacities – Counterweight: 5.4 mt (11,900 lb) – without Bucket – Heavy Lift: On

2.9 m (9'6")		R2.9B1		2380 mm (7'9")		4450 mm (14'7")	
5.7 m (18'8")		600 mm (24") Single Grouser Shoes		3650 mm (12'0")		4450 mm (14'7")	
7.5 m	kg	4300	4300	4300	4300	4300	4300
7.5 m	lb	9500	9500	9500	9500	9500	9500
6.0 m	kg	3950	3950	3950	3950	3950	3950
6.0 m	lb	8750	8750	8750	8750	8750	8750
4.5 m	kg	3900	3900	3900	3900	3900	3900
4.5 m	lb	8550	8550	8550	8550	8550	8550
15.0 ft	kg	3900	3900	3900	3900	3900	3900
15.0 ft	lb	8550	8550	8550	8550	8550	8550
3.0 m	kg	6600	6600	6600	6600	6600	6600
3.0 m	lb	14500	14500	14500	14500	14500	14500
1.5 m	kg	6600	6600	6600	6600	6600	6600
1.5 m	lb	14500	14500	14500	14500	14500	14500
0 m	kg	11400	11400	11400	11400	11400	11400
0 m	lb	25150	25150	25150	25150	25150	25150
0 ft	kg	11400	11400	11400	11400	11400	11400
0 ft	lb	25150	25150	25150	25150	25150	25150
-1.5 m	kg	7050	7050	7050	7050	7050	7050
-1.5 m	lb	15550	15550	15550	15550	15550	15550
-3.0 m	kg	12100	12100	12100	12100	12100	12100
-3.0 m	lb	26700	26700	26700	26700	26700	26700
-10.0 ft	kg	12100	12100	12100	12100	12100	12100
-10.0 ft	lb	26700	26700	26700	26700	26700	26700
-4.5 m	kg	15600	15600	15600	15600	15600	15600
-4.5 m	lb	34400	34400	34400	34400	34400	34400
-15.0 ft	kg	15600	15600	15600	15600	15600	15600
-15.0 ft	lb	34400	34400	34400	34400	34400	34400
	kg	12500	12500	12500	12500	12500	12500
	lb	27500	27500	27500	27500	27500	27500
	kg	12500	12500	12500	12500	12500	12500
	lb	27500	27500	27500	27500	27500	27500
	kg	12500	12500	12500	12500	12500	12500
	lb	27500	27500	27500	27500	27500	27500
	kg	12500	12500	12500	12500	12500	12500
	lb	27500	27500	27500	27500	27500	27500
	kg	12500	12500	12500	12500	12500	12500
	lb	27500	27500	27500	27500	27500	27500

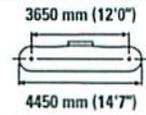
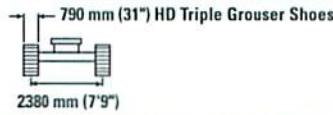
Reach Boom Lift Capacities – Counterweight: 5.4 mt (11,900 lb) – without Bucket – Heavy Lift: On

323 Hydraulic Excavator Specifications

323 Hydraulic Excavator Specifications

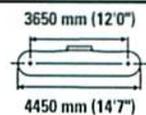
Item 9.

Reach Boom Lift Capacities – Counterweight: 4.2 mt (9,300 lb) – without Bucket – Heavy Lift: On



Reach	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		m		ft	
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb		
7.5 m 25.0 ft								*4950	*4950			*4300	*4300	6.15 20.00
6.0 m 20.0 ft								*5450	*5450			*3950	*3950	7.29 24.17
4.5 m 15.0 ft								*6000	5650	*5650	4050	*3900	3650	7.99 26.67
3.0 m 10.0 ft					*8750	8250	*6900	5450	6000	3950	*4000	3350	8.36 27.50	
1.5 m 5.0 ft					*10 650	7750	*7850	5200	5900	3800	*4250	3250	8.45 28.33	
0 m 0 ft			*6600	*6600	*11 650	7500	8050	5050	5800	3750	*4700	3300	8.26 27.50	
-1.5 m -5.0 ft	*7050	*7050	*11 400	*11 400	*11 750	7400	7950	4950	5800	3700	*5500	3550	7.78 25.83	
-3.0 m -10.0 ft	*12 100	*12 100	*15 600	14 350	*11 000	7450	8000	5000			6500	4150	6.95 23.33	
-4.5 m -15.0 ft			*12 500	*12 500	*9000	7650					*6800	5650	5.60 18.33	

Reach Boom Lift Capacities – Counterweight: 4.2 mt (9,300 lb) – without Bucket – Heavy Lift: On



Reach	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft		m		ft
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	
7.5 m 25.0 ft													*3000	*3000	7.32 24.17
6.0 m 20.0 ft									*4550	4100			*2800	*2800	8.30 27.50
4.5 m 15.0 ft									*4800	4000			*2750	*2750	8.92 29.17
3.0 m 10.0 ft					*7150	*7150	*5900	5450	*5300	3900	*3850	2900	*2800	2800	9.25 30.83
1.5 m 5.0 ft			*9800	*9800	*9250	7800	*6950	5150	5800	3750	4450	2850	*2950	2700	9.33 30.83
0 m 0 ft			*8100	*8100	*10 800	7350	*7850	4900	5700	3600	*4150	2800	*3200	2700	9.16 30.00
-1.5 m -5.0 ft	*6050	*6050	*10 400	*10 400	*11 450	7150	7750	4750	5600	3500			*3650	2850	8.73 29.17
-3.0 m -10.0 ft	*9400	*9400	*14 450	13 700	*11 300	7100	7700	4750	5600	3500			*4450	3250	8.00 26.67
-4.5 m -15.0 ft	*13 650	*13 650	*14 700	13 950	*10 200	7200	*7450	4800					*6100	4050	6.87 22.50
-6.0 m -20.0 ft					*7200	*7200							*6400	*6400	4.91



ISO 10567



* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

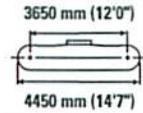
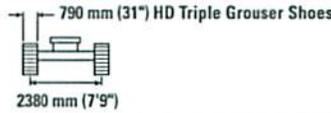
Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

323 Hydraulic Excavator Specifications

Item 9.

SLR Boom Lift Capacities – Counterweight: 5.4 mt (11,900 lb) – without Bucket



		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		m ft		
12.0 m 40.0 ft	kg lb											*1300 *2,850	*1300 *2,850	10.35 33.33
10.5 m 35.0 ft	kg lb											*1200 *2,600	*1200 *2,600	11.66 38.33
9.0 m 30.0 ft	kg lb											*1150 *2,500	*1150 *2,500	12.66 41.67
7.5 m 25.0 ft	kg lb											*1100 *2,450	*1100 *2,450	13.41 44.17
6.0 m 20.0 ft	kg lb											*1100 *2,400	*1100 *2,400	13.97 45.83
4.5 m 15.0 ft	kg lb											*1100 *2,450	*1100 *2,450	14.34 47.50
3.0 m 10.0 ft	kg lb			*4700 *11,900	*4700 *11,900	*6050 *12,900	*6050 *12,900	*4450 *9,600	*4450 *9,600	*3600 *7,800	*3600 *7,800	*1150 *2,500	*1150 *2,500	14.55 48.33
1.5 m 5.0 ft	kg lb					*6750 *16,000	*6750 *16,000	*5250 *11,300	*5250 *11,300	*4100 *8,900	3900 8,400	*1200 *2,600	*1200 *2,600	14.60 48.33
0 m 0 ft	kg lb			*2050 *4,550	*2050 *4,550	*4700 *10,750	*4700 *10,750	*5900 *12,700	4800 10,350	*4550 *9,800	3600 7,800	*1300 *2,800	*1300 *2,800	14.49 47.50
-1.5 m -5.0 ft	kg lb	*2100 *4,600	*2100 *4,600	*2750 *6,100	*2750 *6,100	*4650 *10,550	*4650 *10,550	*6250 *13,550	4550 9,750	*4850 *10,450	3400 7,350	*1400 *3,000	*1400 *3,000	14.23 46.67
-3.0 m -10.0 ft	kg lb	*2850 *6,350	*2850 *6,350	*3550 *7,900	*3550 *7,900	*5200 *11,750	*5200 *11,750	*6450 *13,900	4400 9,450	*5000 *10,850	3300 7,050	*1500 *3,300	1450 3,200	13.79 45.83
-4.5 m -15.0 ft	kg lb	*3700 *8,200	*3700 *8,200	*4450 *9,900	*4450 *9,900	*6100 *13,750	*6100 *13,750	*6400 *13,800	4350 9,400	*5050 *10,900	3250 6,950	*1700 *3,800	1550 3,400	13.17 43.33
-6.0 m -20.0 ft	kg lb	*4550 *10,150	*4550 *10,150	*5450 *12,200	*5450 *12,200	*7250 *16,350	6700 14,400	*6150 *13,250	4400 9,500	*4900 *10,550	3250 7,000	*2000 *4,500	1700 3,800	12.34 40.83
-7.5 m -25.0 ft	kg lb	*5500 *12,300	*5500 *12,300	*6600 *14,850	*6600 *14,850	*7300 *15,650	6900 14,800	*5650 *12,150	4500 9,750	*4550 *9,800	3300 7,150	*2550 *5,700	2000 4,450	11.24 36.67
-9.0 m -30.0 ft	kg lb			*8000 *17,500	*8000 *17,500	*6150 *13,100	*6150 *13,100	*4850 *10,350	4700 10,150	*3950 *8,300	3450 7,500	*2700 *5,900	2500 5,600	9.80 31.67



ISO 10567



* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

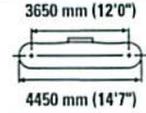
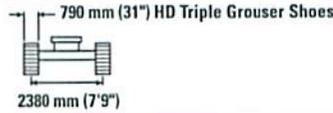
Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

(continued on next page)

323 Hydraulic Excavator Specifications

SLR Boom Lift Capacities – Counterweight: 5.4 mt (11,900 lb) – without Bucket (continued)



		9.0 m/30.0 ft		10.5 m/35.0 ft		12.0 m/40.0 ft		13.5 m/45.0 ft				
												m ft
12.0 m 40.0 ft	kg lb									*1300 *2,850	*1300 *2,850	10.35 33.33
10.5 m 35.0 ft	kg lb			*2200 *4,750	*2200 *4,750					*1200 *2,600	*1200 *2,600	11.66 38.33
9.0 m 30.0 ft	kg lb			*2200 *4,800	*2200 *4,800	*2000 *3,700	*2000 *3,700			*1150 *2,500	*1150 *2,500	12.66 41.67
7.5 m 25.0 ft	kg lb			*2250 *4,950	*2250 *4,950	*2250 *4,900	*2250 4,850			*1100 *2,450	*1100 *2,450	13.41 44.17
6.0 m 20.0 ft	kg lb			*2400 *5,200	*2400 *5,200	*2300 *5,000	2250 4,750	*1850 *3,250	1750 *3,250	*1100 *2,400	*1100 *2,400	13.97 45.83
4.5 m 15.0 ft	kg lb	*2800 *6,050	*2800 *6,050	*2600 *5,600	*2600 *5,600	*2400 *5,250	2150 4,600	*2300 *4,650	1750 3,650	*1100 *2,450	*1100 *2,450	14.34 47.50
3.0 m 10.0 ft	kg lb	*3100 *6,750	*3100 *6,750	*2800 *6,050	2550 5,500	*2550 *5,550	2050 4,400	*2400 *5,200	1650 3,550	*1150 *2,500	*1150 *2,500	14.55 48.33
1.5 m 5.0 ft	kg lb	*3450 *7,450	3050 6,550	*3000 *6,500	2400 5,200	*2700 *5,850	1950 4,200	*2500 *5,400	1600 3,450	*1200 *2,600	*1200 *2,600	14.60 48.33
0 m 0 ft	kg lb	*3750 *8,050	2850 6,100	*3200 *6,900	2300 4,900	*2850 *6,150	1900 4,000	2550 5,450	1550 3,300	*1300 *2,800	*1300 *2,800	14.49 47.50
-1.5 m -5.0 ft	kg lb	*3950 *8,550	2700 5,800	*3350 *7,250	2200 4,700	*2950 6,350	1800 3,850	2500 5,350	1500 3,250	*1400 *3,000	*1400 *3,000	14.23 46.67
-3.0 m -10.0 ft	kg lb	*4100 *8,850	2600 5,550	*3450 *7,450	2100 4,550	2900 6,250	1750 3,750	*2300 *3,700	1500 3,200	*1500 *3,300	1450 3,200	13.79 45.83
-4.5 m -15.0 ft	kg lb	*4100 *8,900	2550 5,450	3450 7,400	2100 4,450	2900 6,200	1750 3,750			*1700 *3,800	1550 3,400	13.17 43.33
-6.0 m -20.0 ft	kg lb	*4000 *8,650	2550 5,500	*3350 *7,200	2100 4,500	*2800 *5,150	1800 3,850			*2000 *4,500	1700 3,800	12.34 40.83
-7.5 m -25.0 ft	kg lb	*3750 *8,000	2600 5,650	*3050 *6,450	2150 4,650					*2550 *5,700	2000 4,450	11.24 36.67
-9.0 m -30.0 ft	kg lb	*3150 *6,550	2750 5,950							*2700 *5,900	2500 5,600	9.80 31.67



ISO 10567



* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill %	4.2 mt (9,300 lb) Counterweight		5.4 mt (11,900 lb) Counterweight		5.4 mt (11,900 lb) Counterweight		
		mm	in	m³	yd³	kg	lb		Reach Boom		Reach Boom		HD Reach Boom	SLR Boom	
									R2.9 (9'6")	R3.9 (12'10")	R2.9 (9'6")	R3.9 (12'10")	R2.9 (9'6") HD TRS	SLR	
Pin-On (No Quick Coupler)															
General Duty – Capacity	B	600	24	0.55	0.72	619	1,363	100	●	●	●	●	●	●	
	B	750	30	0.75	0.98	710	1,566	100	●	●	●	●	●	●	
	B	900	36	0.95	1.24	787	1,735	100	●	⊙	●	●	●	●	
	B	1050	42	1.16	1.52	848	1,870	100	●	⊖	●	⊙	●	●	
	B	1200	48	1.38	1.80	926	2,041	100	⊖	○	●	⊖	⊙	●	
	B	1350	54	1.59	2.08	1004	2,213	100	X	X	X	X	⊖	●	
General Duty – Capacity – Wide Tip	B	600	24	0.55	0.72	633	1,394	100	●	●	●	●	●	●	
	B	750	30	0.75	0.98	731	1,612	100	●	●	●	●	●	●	
	B	900	36	0.95	1.24	813	1,793	100	●	⊙	●	●	●	●	
	B	1050	42	1.16	1.52	895	1,973	100	⊙	○	●	⊙	●	●	
	B	1200	48	1.38	1.80	979	2,158	100	⊖	◇	●	⊖	⊙	●	
	B	1350	54	1.59	2.08	1063	2,343	100	X	X	X	X	⊖	●	
Heavy Duty	B	600	24	0.46	0.61	649	1,431	100	●	●	●	●	●	●	
	B	750	30	0.64	0.84	748	1,649	100	●	●	●	●	●	●	
	B	900	36	0.81	1.06	826	1,821	100	●	●	●	●	●	●	
	B	1050	42	1.00	1.31	880	1,940	100	●	⊖	●	●	●	●	
	B	1200	48	1.19	1.56	972	2,141	100	⊙	○	●	⊙	●	●	
	B	1350	54	1.38	1.81	1054	2,322	100	X	X	X	X	X	●	
Heavy Duty – Power	B	900	36	0.79	1.03	842	1,856	100	●	●	●	●	●	●	
	B	1050	42	0.96	1.26	907	1,999	100	●	⊖	●	●	●	●	
	B	1200	48	1.14	1.49	993	2,188	100	⊙	X	●	X	●	●	
Severe Duty	B	600	24	0.46	0.61	694	1,530	90	●	●	●	●	●	●	
	B	750	30	0.64	0.84	802	1,768	90	●	●	●	●	●	●	
	B	900	36	0.81	1.06	889	1,959	90	●	●	●	●	●	●	
	B	1050	42	1.00	1.31	964	2,125	90	●	⊙	●	●	●	●	
	B	1200	48	1.19	1.56	1053	2,320	90	●	○	●	⊙	●	●	
Severe Duty – Power	B	900	36	0.79	1.03	908	2,001	90	●	●	●	●	●	●	
Extreme Duty	B	1100	43	1.00	1.31	1078	2,376	90	●	⊖	●	●	●	●	
	B	1250	49	1.19	1.56	1134	2,499	90	⊙	○	●	⊙	●	●	
Mud/Cleanup	B	1700	72	1.60	2.09	979	2,158	100	○	◇	⊙	○	⊖	●	
Ditch Cleaning	B	1500	60	1.01	1.32	652	1,437	100	●	⊙	●	●	●	●	
	B	1800	72	1.24	1.62	740	1,631	100	⊙	⊖	●	⊙	●	●	
	B	2000	78	1.22	1.60	869	1,916	100	⊙	○	●	⊙	●	●	
Ditch Cleaning – Tilt	B	1500	60	0.90	1.18	948	2,090	100	●	⊙	●	●	●	●	
	B	1800	72	1.11	1.45	1063	2,344	100	⊙	○	●	⊙	●	●	
	B	1800	72	1.40	1.83	1148	2,531	100	⊖	◇	⊙	○	⊙	●	
	B	2000	79	1.23	1.61	1096	2,416	100	⊙	○	●	⊖	●	●	
	B	2000	79	1.23	1.61	1132	2,496	100	⊖	◇	●	⊖	⊙	●	
General Duty	312	900	36	0.53	0.69	403	888	100							○
Ditch Cleaning Long Reach	312	1200	48	0.57	0.74	386	851	100							○
Maximum load with pin-on (payload + bucket)									kg	3100	2445	3710	2985	2840	1140
									lb	6,834	5,390	8,179	6,581	6,261	2,513

The above loads are in compliance with hydraulic excavator standard EN474-5:2006+A3:2013, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with General Duty tips.

TRS = Thumb Ready Stick

Maximum Material Density:

- 2100 kg/m³ (3,500 lb/yd³)
- ⊙ 1800 kg/m³ (3,000 lb/yd³)
- ⊖ 1500 kg/m³ (2,500 lb/yd³)
- 1200 kg/m³ (2,000 lb/yd³)
- ◇ 900 kg/m³ (1,500 lb/yd³)
- X Not Recommended

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

(continued on next page)

323 Hydraulic Excavator Specifications

Item 9.

Bucket Specifications and Compatibility (continued)

	Linkage	Width		Capacity		Weight		Fill %	4.2 mt (9,300 lb) Counterweight		5.4 mt (11,900 lb) Counterweight		5.4 mt (11,900 lb) Counterweight	
		mm	in	m ³	yd ³	kg	lb		Reach Boom		Reach Boom		HD Reach Boom	
									R2.9 (9'6")	R3.9 (12'10")	R2.9 (9'6")	R3.9 (12'10")	R2.9 (9'6") HD TRS	
With Cat Pin Grabber Coupler														
General Duty – Capacity														
B	600	24	0.55	0.72	619	1,363	100	●	●	●	●	●	●	
B	750	30	0.75	0.98	710	1,566	100	●	⊙	●	●	●	●	
B	900	36	0.95	1.24	787	1,735	100	●	○	●	⊙	●	●	
B	1050	42	1.16	1.52	848	1,870	100	⊖	◇	●	⊖	⊙	●	
B	1200	48	1.38	1.80	926	2,041	100	○	◇	⊙	○	⊖	●	
B	1350	54	1.59	2.08	1004	2,213	100	◇	X	⊖	◇	○	○	
General Duty – Capacity – Wide Tip														
B	600	24	0.55	0.72	633	1,394	100	●	●	●	●	●	●	
B	750	30	0.75	0.98	731	1,612	100	●	⊙	●	●	●	●	
B	900	36	0.95	1.24	813	1,793	100	●	○	●	⊙	●	●	
B	1050	42	1.16	1.52	895	1,973	100	⊖	◇	●	⊖	⊙	●	
B	1200	48	1.38	1.80	979	2,158	100	○	X	⊙	○	⊖	●	
B	1350	54	1.59	2.08	1063	2,343	100	◇	X	⊖	◇	○	○	
Heavy Duty														
B	600	24	0.46	0.61	649	1,431	100	●	●	●	●	●	●	
B	750	30	0.64	0.84	748	1,649	100	●	●	●	●	●	●	
B	900	36	0.81	1.06	826	1,821	100	●	⊖	●	●	●	●	
B	1050	42	1.00	1.31	880	1,940	100	⊙	○	●	⊙	●	●	
B	1200	48	1.19	1.56	972	2,141	100	⊖	◇	●	○	⊙	●	
B	1350	54	1.38	1.81	1054	2,322	100	○	X	⊖	○	⊖	●	
Heavy Duty – Power														
B	900	36	0.79	1.03	842	1,856	100	●	⊖	●	●	●	●	
B	1050	42	0.96	1.26	907	1,999	100	⊙	○	●	⊙	●	●	
B	1200	48	1.14	1.49	993	2,188	100	⊖	◇	●	⊖	⊙	●	
Heavy Duty – Pin Grabber Performance														
B	600	24	0.44	0.57	676	1,491	100	●	●	●	●	●	●	
B	750	30	0.60	0.79	778	1,715	100	●	●	●	●	●	●	
B	900	36	0.76	1.00	864	1,904	100	●	⊖	●	●	●	●	
B	1050	42	0.93	1.22	928	2,045	100	⊙	○	●	⊙	●	●	
B	1200	48	1.11	1.45	1016	2,239	100	⊖	◇	●	⊖	⊙	●	
B	1350	54	1.28	1.67	1104	2,432	100	○	X	⊙	○	⊖	●	
Severe Duty														
B	600	24	0.46	0.61	694	1,530	90	●	●	●	●	●	●	
B	750	30	0.64	0.84	802	1,768	90	●	●	●	●	●	●	
B	900	36	0.81	1.06	889	1,959	90	●	⊖	●	●	●	●	
B	1050	42	1.00	1.31	964	2,125	90	⊖	○	●	⊙	●	●	
B	1200	48	1.19	1.56	1053	2,320	90	⊖	◇	●	⊖	⊙	●	
Severe Duty – Power														
B	900	36	0.79	1.03	908	2,001	90	●	⊖	●	●	●	●	
Mud/Cleanup														
B	1700	72	1.60	2.09	979	2,158	100	◇	X	⊖	◇	○	○	
Ditch Cleaning														
B	1500	60	1.01	1.32	652	1,437	100	●	⊖	●	⊙	●	●	
B	1800	72	1.24	1.62	740	1,631	100	⊖	◇	●	⊖	⊙	●	
B	2000	78	1.22	1.60	869	1,916	100	⊖	◇	●	⊖	⊙	●	
Ditch Cleaning – Tilt														
B	1500	60	0.90	1.18	948	2,090	100	●	○	●	⊙	●	●	
B	1800	72	1.11	1.45	1063	2,344	100	⊖	◇	●	⊖	⊙	●	
B	1800	72	1.40	1.83	1148	2,531	100	○	X	⊖	◇	○	○	
B	2000	79	1.23	1.61	1096	2,416	100	○	X	⊙	○	⊖	●	
B	2000	79	1.23	1.61	1132	2,496	100	○	X	⊙	○	⊖	●	
Maximum load with coupler (payload + bucket)														
									kg	2779	2112	3401	2660	3140
									lb	6,127	4,656	7,498	5,865	6,924

The above loads are in compliance with hydraulic excavator standard EN474-5:2006+A3:2013, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with General Duty tips.

TRS = Thumb Ready Stick

Maximum Material Density:

- 2100 kg/m³ (3,500 lb/yd³)
- ⊙ 1800 kg/m³ (3,000 lb/yd³)
- ⊖ 1500 kg/m³ (2,500 lb/yd³)
- 1200 kg/m³ (2,000 lb/yd³)
- ◇ 900 kg/m³ (1,500 lb/yd³)
- X Not Recommended

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

Attachments Offering Guide

Not all Attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

Match
 * Working range front only
 † Allowed usage on machine less than 50%
 No Match
 1800 kg/m³ (3,000 lb/yd³)
 1200 kg/m³ (2,000 lb/yd³)

PIN-ON ATTACHMENTS

Undercarriage		L		L
Counterweight		4.2 mt (9,300 lb)		4.2 mt (9,300 lb)
Boom Type		Reach		HD Reach
Stick Length		2.9 m (9'6")	3.9 m (12'10")	2.9 m (9'6")
Hydraulic Hammers	H120 GC	✓	✓	✓
	H120 GC S	✓	✓	✓
	H120 S	✓	✓	✓
	H130 GC			✓
	H130 GC S			✓
	H130 S	✓†	✓	✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓	✓	✓
	MP318 Demolition Jaw	✓	✓	✓
	MP318 Pulverizer Jaw	✓	✓	✓
	MP318 Shear Jaw	✓	✓	✓
	MP318 Universal Jaw	✓	✓	✓
Demolition and Sorting Grapples	G318	✓	✓	✓
	G318 WH-800	✓	✓	✓
	G318 WH-1100	✓		✓
	G318 WH	✓	✓	✓
	G324	✓*		✓*
	G324 WH-1500	✓*		
	G324 WH	✓*		
Mobile Scrap and Demolition Shears	S3025	✓		✓
	S3025 Flat Top	✓		✓
Pulverizers	P215	✓	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓	✓
Mulchers	HM4015	✓	✓	✓
Orange Peel Grapples	GSH420-500	●	●	●
	GSH420-600	●	●	●
	GSH420-750	●	○	●
	GSH425-750	●		○
	GSH425-950	○		○
	GSH520-500	●	●	●
	GSH520-600	●	○	●
	GSH520-750	●	○	●
GSH525-750	○		○	

Demolition and Sorting Grapple: WH – Waste Handling shells
 TRS = Thumb Ready

(continued on next page)

323 Hydraulic Excavator Specifications

Item 9.

Attachments Offering Guide (continued)

Not all Attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

Match
 Allowed usage on machine less than 50%
 No Match
 1800 kg/m³ (3,000 lb/yd³)
 1200 kg/m³ (2,000 lb/yd³)

PIN-ON ATTACHMENTS

Undercarriage		L		L	
Counterweight		5.4 mt (11,900 lb)		5.4 mt (11,900 lb)	
Boom Type		Reach		HD Reach	
Stick Length		2.9 m (9'6")	3.9 m (12'10")	2.9 m (9'6")	2.9 m TR (9'6")
Hydraulic Hammers	H120 GC	✓	✓	✓	✓
	H120 GC S	✓	✓	✓	✓
	H120 S	✓	✓	✓	✓
	H130 GC			✓	
	H130 GC S			✓	
	H130 S	✓†	✓	✓	✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓	✓	✓	✓
	MP318 Demolition Jaw	✓	✓	✓	✓
	MP318 Pulverizer Jaw	✓	✓	✓	✓
	MP318 Shear Jaw	✓	✓	✓	✓
	MP318 Universal Jaw	✓	✓	✓	✓
Demolition and Sorting Grapples	G318	✓	✓	✓	✓
	G318 WH-800	✓	✓	✓	✓
	G318 WH-1100	✓		✓	✓
	G318 WH	✓	✓	✓	✓
	G324	✓		✓	✓
	G324 WH-1500	✓		✓	✓
	G324 WH	✓		✓	✓
Mobile Scrap and Demolition Shears	S3025	✓		✓	✓
	S3025 Flat Top	✓		✓	✓
Pulverizers	P215	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVPI10	✓	✓	✓	✓
Mulchers	HM4015	✓	✓	✓	✓
Orange Peel Grapples	GSH420-500	●	●	●	●
	GSH420-600	●	●	●	●
	GSH420-750	●	●	●	●
	GSH425-750	●	○	●	●
	GSH425-950	●		●	●
	GSH425-1150	○		○	○
	GSH520-500	●	●	●	●
	GSH520-600	●	●	●	●
	GSH520-750	●	○	●	●
	GSH525-750	●		●	●
	GSH525-950	○		○	○
	GSH525-1150	○		○	

Demolition and Sorting Grapple: WH – Waste Handling shells

TRS = Thumb Ready

(continued on next page)

Attachments Offering Guide *(continued)*

Not all Attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

Match
 * Working range front only
 † Allowed usage on machine less than 50%
 No Match

CAT PIN GRABBER COUPLER ATTACHMENTS

Undercarriage		L					
Counterweight		4.2 mt (9,300 lb)			5.4 mt (11,900 lb)		
Boom Type		Reach		HD Reach	Reach		HD Reach
Stick Length		2.9 m (9'6")	3.9 m (12'10")	2.9 m (9'6")	2.9 m (9'6")	3.9 m (12'10)	2.9 m TR (9'6")
Hydraulic Hammers	H120 GC	✓†	✓†	✓	✓†	✓†	✓
	H120 GC S	✓†	✓†	✓	✓†	✓†	✓
	H120 S	✓†	✓†	✓	✓†	✓†	✓
	H130 GC	✓†		✓*	✓†		✓
	H130 GC S	✓†		✓	✓†		✓
	H130 S	✓†		✓	✓†		✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓		✓	✓		✓
	MP318 Demolition Jaw	✓		✓	✓		✓
	MP318 Pulverizer Jaw	✓		✓*	✓		✓
	MP318 Shear Jaw	✓		✓	✓		✓
	MP318 Universal Jaw	✓		✓	✓		✓
Demolition and Sorting Grapples	G318	✓		✓	✓		✓
	G318 WH-800	✓		✓	✓		✓
	G318 WH-1100	✓		✓*	✓		✓
	G318 WH	✓		✓*	✓		✓
Mobile Scrap and Demolition Shears	S3025	✓		✓*	✓		✓
	S3025 Flat Top	✓*			✓		
Pulverizers	P215	✓		✓	✓		✓
Compactors (Vibratory Plate)	CVP110	✓	✓	✓	✓	✓	✓
Mulchers	HM4015	✓	✓	✓	✓	✓	✓

Demolition and Sorting Grapple: WH – Waste Handling shells

TRS = Thumb Ready

(continued on next page)

323 Hydraulic Excavator Specifications

Item 9.

Attachments Offering Guide (continued)

Not all Attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

Match † Allowed usage on machine less than 50% No Match

TRS18-S70 COUPLER ATTACHMENTS

Undercarriage		L				
Counterweight		4.2 mt (9,300 lb)			5.4 mt (11,900 lb)	
Boom Type		Reach	HD Reach	Reach	HD Reach	
Stick Length		2.9 m (9'6")	2.9 m (9'6")	2.9 m (9'6")	2.9 m (9'6")	2.9 m TR (9'6")
Hydraulic Hammers	H115 S	✓	✓	✓	✓	✓
	H120 GC S	✓†	✓	✓†	✓	✓
	H120 S	✓†	✓	✓†	✓	✓
Compactors (Vibratory Plate)	CVP75	✓	✓	✓	✓	✓
	CVP110	✓	✓	✓	✓	✓

BOOM-MOUNT ATTACHMENTS

Undercarriage		L					
Counterweight		4.2 mt (9,300 lb)			5.4 mt (11,900 lb)		
Boom Type		Reach	HD Reach	ES Reach	Reach	HD Reach	ES Reach
Mobile Scrap and Demolition Shears	S2050	✓	✓		✓	✓	
	S3035	✓	✓	✓	✓	✓	✓

Demolition and Sorting Grapple: WH – Waste Handling shells
 TRS = Thumb Ready

Thumb Specifications

Not all Attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

Match No Match

Bucket Type	Tooth Quantity	Width		Pro Plus		Pro		Still Link		Utility	
		mm	in	Pin-On	Cat Pin Grabber	Pin-On	Cat Pin Grabber	Pin-On	Cat Pin Grabber	Pin-On	Cat Pin Grabber
General Duty	5	902	36	✓	✓	✓	✓	✓	✓	✓	✓
	5	1056	42	✓	✓	✓	✓	✓	✓	✓	✓
	6	1208	48	✓	✓	✓	✓	✓	✓	✓	✓
	7	1350	54	✓	✓	✓	✓	✓	✓	✓	✓
Heavy Duty	5	902	36	✓	✓	✓	✓	✓	✓	✓	✓
	5	1056	42	✓	✓	✓	✓	✓	✓	✓	✓
	6	1208	48	✓	✓	✓	✓	✓	✓	✓	✓
	7	1350	54	✓	✓	✓	✓	✓	✓	✓	✓
Heavy Duty Power	5	1056	42	✓	✓	✓	✓	✓	✓	✓	✓
	6	1208	48				✓	✓	✓	✓	✓
Severe Duty	5	902	36	✓	✓	✓	✓	✓	✓	✓	✓
	5	1056	42	✓	✓	✓	✓	✓	✓	✓	✓
	6	1208	48	✓	✓	✓	✓	✓	✓	✓	✓
Pin Grabber Performance Buckets	5	902	36		✓					✓	✓
	5	1056	42		✓		✓			✓	✓
	6	1208	48		✓					✓	✓
	7	1350	54							✓	✓

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
CAB			ENGINE		
ROPS, standard sound suppression	✓		Three selectable power modes	✓	
High-resolution 254 mm (10 in) LCD touchscreen monitor	✓		Auto engine speed control	✓	
High-resolution 254 mm (10 in) LCD touchscreen monitor + additional monitor (for Cat GRADE with Advanced 2D or Cat GRADE with 3D)		✓	Auto engine idle shutdown	✓	
Auto bi-level air conditioner	✓		Work up to 3000 m (9,842.5 ft) above sea level without engine power de-rating	✓	
Jog dial and shortcut keys for monitor control	✓		52° C (125° F) high-ambient cooling capacity	✓	
Keyless push-to-start engine control	✓		Cold starting capability for -18° C (0° F)	✓	
Height-adjustable console, infinite with no tool	✓		Cold starting capability for -32° C (-25° F)		✓
Heated seat with air-adjustable suspension	✓		Double element air filter with integrated pre-cleaner	✓	
51 mm (2 in) seat belt	✓		Electric fuel priming pump	✓	
Tilt-up left-side console	✓		Electric cooling fans with auto-reverse function	✓	
Bluetooth integrated radio with USB ports	✓		Biodiesel capability up to B20	✓	
12V DC outlets	✓		HYDRAULIC SYSTEM		
Document storage	✓		Boom and stick regeneration circuits	✓	
Rear head storage net and lunchbox storage net	✓		Boom and stick lowering check valves		✓
Cup and bottle holders	✓		Heavy lift configuration		✓
Openable two-piece front window	✓		Electronic main control valve	✓	
Upper radial wiper with washer	✓		Auto warm up	✓	
Openable polycarbonate skylight hatch	✓		Auto two-speed travel	✓	
LED dome light	✓		Boom and stick drift reduction valve	✓	
Floor welcome light	✓		Element type main hydraulic filter	✓	
Roller front sunscreen	✓		Slider joysticks	✓	
Roller rear sunscreen		✓	Tandem type electronic main pump	✓	
Washable floor mat	✓		Fine swing control	✓	
Beacon ready	✓		Hammer return filter circuit		✓
			Advanced Tool Control (two pump, one/two way high-pressure flow)		✓
			Medium pressure auxiliary circuit		✓
			Quick coupler circuit for Cat Pin Grabber		✓

(continued on next page)

Standard and Optional Equipment *(continued)*

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
UNDERCARRIAGE AND STRUCTURES			BOOMS, STICKS AND LINKAGES		
600 mm (24 in) single grouser track shoes		✓	5.7 m (18'8") Reach boom		✓
790 mm (31 in) HD triple grouser track shoes	✓		5.7 m (18'8") HD Reach boom		✓
Tie-down points on base frame	✓		8.85 m (29'0") Super Long Reach boom		✓
Segmented track guiding guards	✓		2.9 m (9'6") Reach stick		✓
Full-length track guiding guards		✓	2.9 m (9'6") HD thumb ready Reach stick		✓
HD bottom guard	✓		3.9 m (12'10") Reach stick		✓
Swivel guard		✓	6.28 m (20'7") Super Long Reach stick		✓
HD travel motor guards	✓		Bucket linkage, B1-family with lifting eye, Cat GRADE	✓	
Grease lubricated track links	✓		Bucket linkage, A-family, with lifting eye		✓
4200 kg (9,260 lb) counterweight		✓	ELECTRICAL SYSTEM		
5400 kg (11,900 lb) counterweight	✓		1,000 CCA maintenance-free batteries (×2)	✓	
Semi-HD swing frame		✓	Centralized electrical disconnect switch	✓	
HD swing frame	✓		Programmable time-delay LED working lights	✓	
HD swing bearing	✓		LED chassis light, LH and RH boom lights, cab lights	✓	
HD base frame with SD track rollers and standard carrier rollers	✓		Premium surround lighting package		✓
SD base frame with SD track rollers and SD carrier rollers		✓			
Base frame with HD track rollers and standard carrier rollers		✓			
Final drive with standard travel motor	✓				

(continued on next page)

Standard and Optional Equipment (continued)

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
CAT TECHNOLOGY			SERVICE AND MAINTENANCE		
Cat Product Link™	✓		Scheduled Oil Sampling (S·O·S SM) ports	✓	
Work tool recognition	✓		QuickEvac™ maintenance ready		✓
Work tool tracking*	✓		Grouped location for engine oil and fuel filters	✓	
Laser catcher		✓	Ground-level second dipstick for engine oil	✓	
Cat GRADE with 2D and offset memory	✓		Radiator screen		✓
Cat GRADE with Advanced 2D		✓	SAFETY AND SECURITY		
Cat GRADE with 3D connectivity:		✓	Cat Command remote control		✓
– Virtual Reference Station**			Rearview and right-hand-sideview cameras	✓	
– Internet Base Service Station**			360° visibility		✓
– Trimble Connected Community**			Neutral lever (lock out) for all controls	✓	
Cat Assist:	✓		Anti-skid plate and countersunk bolts on service platform	✓	
– Grade Assist			Ground-level accessible secondary engine shutoff switch in cab	✓	
– Boom Assist			RH handrail and handhold (ISO 2867 compliant)	✓	
– Bucket Assist			Travel alarm	✓	
– Swing Assist					
– Lift Assist					
Cat PAYLOAD:	✓				
– Static weigh					
– Semiautomatic calibration					
– Payload/cycle information					
– USB reporting capability					
2D E-Fence:	✓				
– E-ceiling					
– E-floor					
– E-swing					
– E-wall					
– E-cab avoidance					
Auto hammer stop	✓				
Remote Services capability	✓				
Auto Dig Boost	✓				

*Paired with PL161 attachment locator.

**Subscription required.

Dealer Installed Kit and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

- Radial lower wiper
- LH/RH electrical pedal for tool control
- Dual exit rear window kit
- Rain protector plus cab light cover
- 75 mm (3") retractable seat belt

SAFETY AND SECURITY

- Bluetooth® key fob

SERVICE AND MAINTENANCE

- Grease gun holder

ELECTRICAL

- Jump start wiring

GUARDS

- Side rubber bumper
- Falling object guard system (not compatible with cab light cover, rain protector)
- Mesh guard full front (not compatible with cab light cover, rain protector)
- Mesh guard lower half front
- Full protecting vandalism guard

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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AEXQ2162-04 (09-2020)
Replaces AEXQ2162-03
Build Number: 07D
(North America)



SUPER LONG REACH & LONG REACH EXCAVATION EXCAVATORS



320 SLR / 323 SLR / 326 SLR / 330 SLR
340 LRE / 352 LRE



GO THE DISTANCE

CAT® SUPER LONG REACH AND LONG REACH EXCAVATION EXCAVATORS

Whether cleaning ditches, canals, and waterways, or doing heavier-duty work like dredging and long-distance excavation, count on Cat® Next Generation Super Long Reach and Long Reach Excavation Excavators to expand how you work.



Work at greater distances with better fuel economy, more comfort, and improved efficiency with Cat Next Generation Super Long Reach (SLR) and Long Reach Excavation (LRE) Excavators.

SUPER LONG REACH EXCAVATORS

- + 320
- + 323
- + 326
- + 330

LONG REACH EXCAVATION EXCAVATORS

- + 340
- + 352

MADE TO MATCH YOUR WORK

When your work is a little farther away, reach for Cat Super Long Reach and Long Reach Excavators. They are specialized machines designed to perform despite the unique challenges of working at distance.

Super long reach excavators excel in applications with ditch cleaning buckets.

Long reach excavation excavators excel at heavier-duty work that requires more digging force and lift capacity.



TYPE	SUPER LONG REACH	LONG REACH EXCAVATION
Models	320, 323, 326, 330	340, 352
Application	<ul style="list-style-type: none"> - Ditch cleaning - Slope finishing - Settling pond clean out - Waterway and canal maintenance - Vegetation control 	<ul style="list-style-type: none"> - General excavation - Dredging - Ditch cleaning - Settling pond clean out - Waterway and canal maintenance - Vegetation control with mulcher attachment - Loose material transfer
Work tools	<ul style="list-style-type: none"> - Ditch cleaning buckets - Skeleton buckets 	<ul style="list-style-type: none"> - Excavation buckets - Ditch cleaning buckets - Ditch cleaning tilt buckets - Quick couplers - Mulcher heads - Skeleton buckets
Front linkage family	Cat A linkage	Cat B linkage
Undercarriage	Long	Heavy duty, high wide
Additional counterweight	Yes	Yes
Digging force compared to reach configuration	Approximately 40%	Approximately 66%



SUPER LONG REACH

NEXT GENERATION EXCAVATORS

Cat Super Long Reach Excavators are a great fit for lighter-duty, long-distance applications, including:

- Ditch cleaning
- Slope finishing
- Settling pond clean out
- Waterway and canal maintenance
- Vegetation control

NEARLY 40% MORE REACH

Cat Medium Excavators with super long reach front linkage extend nearly 40% farther than those with the standard reach configuration with approximately 40% of the digging force.¹

NEXT GENERATION FEATURES

Take advantage of Cat Next Generation Excavator features, including improved operator comfort, reduced maintenance costs, and better fuel economy. Super long reach excavators are compatible with Next Generation Excavator technologies.

EQUIPPED FOR PERFORMANCE

The 323 and 330 provide similar reach and dig depth as the 320 and 326, respectively. However, you will get greater stability and performance with the 323 or 330. All super long reach excavators use a heavier counterweight than equivalent standard reach excavators.

SUPER LONG REACH EXCAVATORS

For detailed specifications, consult Technical Specifications document available on www.cat.com or your from your Cat dealer.

	Max Digging Depth	Max Reach at Ground Level	Bucket Digging Force (ISO)*	Stick Digging Force (ISO)*	Bucket Size Range "A" Family Linkage**
320 (SLR)	11 540 mm 37'10"	15 570 mm 51'1"	62 kN 13,841 lbf	49 kN 10,966 lbf	DC: .57 m ³ (.75 yd ³) GD: .53 m ³ (.69 yd ³)
323 (SLR)	11 540 mm 37'10"	15 570 mm 51'1"	62 kN 13,841 lbf	49 kN 10,966 lbf	DC: .57 m ³ (.75 yd ³) GD: .53 m ³ (.69 yd ³)
326 (SLR)	14 580 mm 47'10"	18 280 mm 60'0"	61 kN 13,710 lbf	45 kN 10,120 lbf	DC: .57-.74 m ³ (.74-.97 yd ³)
330 (SLR)	14 610 mm 47'11"	18 290 mm 60'0"	60 kN 13,490 lbf	45 kN 10,120 lbf	DC: .57-.74 m ³ (.74-.97 yd ³) GD: .53 m ³ (.69 yd ³)

*With ditch cleaning bucket

**Not all buckets available in all regions. Consult your Cat dealer.

DC = Ditch Cleaning Bucket; GD = General Duty Bucket

¹ Reach comparison made at ground level. Regional configurations vary. Consult the Technical Specifications document available on www.cat.com for details specific for your region.

LONG REACH EXCAVATION

NEXT GENERATION EXCAVATORS

When your job calls for heavier work at a distance, call on Cat Long Reach Excavation Excavators. They excel in long-distance applications, including:

- General excavation
- Dredging
- Ditch cleaning
- Settling pond clean out
- Waterway and canal maintenance
- Vegetation control with mulcher attachment
- Loose material transfer



NEARLY 35% MORE REACH

Cat Long Reach Excavation Excavators reach nearly 35% farther than those with the standard reach configuration with approximately 66% of the digging force.¹

A STABLE FOUNDATION

The heavy-duty, high wide undercarriage provides a stable, rugged platform for long reach digging and loading applications with high ground clearance. The variable gauge undercarriage on the 352 LRE can be retracted, making transportation easier.

DESIGNED TO DIG

Reinforcements in the front linkage and frame allow digging power at a distance without sacrificing durability. A heavier counterweight than equivalent standard reach excavators provides greater stability. Get added versatility with optional tool control for select hydro-mechanical tools.

NEXT GENERATION FEATURES

Take advantage of Cat Next Generation Excavator features including improved operator comfort, reduced maintenance costs, and better fuel economy. Long reach excavation excavators are compatible with Next Generation Excavator technologies.²

LONG REACH EXCAVATION EXCAVATORS

For detailed specifications, consult Technical Specifications document available on www.cat.com or from your Cat dealer.

	Max Digging Depth	Max Reach at Ground Level	Bucket Digging Force (ISO)	Stick Digging Force (ISO)	Bucket Size Range "B" Family Linkage*
340 (LRE)	13 050 mm 42'10"	18 080 mm 59'4"	141 kN 31,590 lbf	92 kN 20,750 lbf	DC: .86-1.50 m ³ (1.12-1.96 yd ³) DCT: .90-1.23 m ³ (1.18-1.61 yd ³) GD: .46-1.00 m ³ (.61-1.31 yd ³) HD: 1.00 m ³ (1.31 yd ³)
352 (LRE)	13 040 mm 42'9"	19 640 mm 64'5"	141 kN 31,700 lbf	104 kN 23,380 lbf	DC: .86-1.50 m ³ (1.12-1.96 yd ³) DCT: .90-1.23 m ³ (1.18-1.61 yd ³) GD: .46-1.00 m ³ (.61-1.31 yd ³) HD: 1.00-1.38 m ³ (1.31-1.80 yd ³)

*Not all buckets available in all regions. Consult your Cat dealer.

DC = Ditch Cleaning Bucket; DCT = Ditch Cleaning Tilt Bucket; GD = General Duty Bucket, HD = Heavy Duty Bucket

¹ Reach comparison made at ground level. Regional configurations vary. Consult the Technical Specifications document available on www.cat.com for details specific for your region.

² Cat Assist technologies available on the 340 only.



NEXT GENERATION EXCAVATORS

LOWER YOUR COSTS

Cat Next Generation Excavators are ready to help you make your business stronger by giving you new ways to get the most work done at the lowest cost – so you can put more money in your pocket.

FUEL SAVINGS FEATURES

Next Generation Excavators help you lower fuel costs.

Key fuel-savings features include:

- The electrohydraulic system's main control valve and large hydraulic pump allow the engine to run at a lower engine speed without impacting production.
- Smart mode (one of three power mode settings) automatically adjusts engine and hydraulic power for the highest fuel efficiency – providing more when it is required and less when it isn't.
- Cat Grade technologies can improve operator efficiency by up to 45%, reducing the time it takes you to complete a job.

LOWER MAINTENANCE COSTS

Don't let maintenance costs eat into your business.

Key maintenance cost-lowering features include:

- Extended and synchronized maintenance intervals reduce downtime for routine maintenance.
- The new air intake filter with precleaner has double the dirt holding capacity of the previous air intake filter.
- Hydraulic and fuel tank filters have increased capacity and longer life.
- Many maintenance points are accessible from the ground, making service not only easy, but safe.

NEXT GENERATION OPERATOR STATION

WORK IN COMFORT

Next Generation Excavator cabs keep you comfortable and productive.

SAFE AND CONVENIENT

Cabs on super long reach excavators and the 340 LRE have ISO-certified ROPS. All cabs are sound suppressed and sealed. Convenience features include automatic climate control, Bluetooth integrated radio, USB ports for charging and phone connectivity, 12V DC outlets and AUX port, storage in rear, overhead, and console compartments, and cup and bottle holders.



ALL-AROUND VISIBILITY

When working at distance, visibility is everything. The cab windows and lower front profile of the machine give outstanding visibility to the work area without the strain of constantly leaning forward.

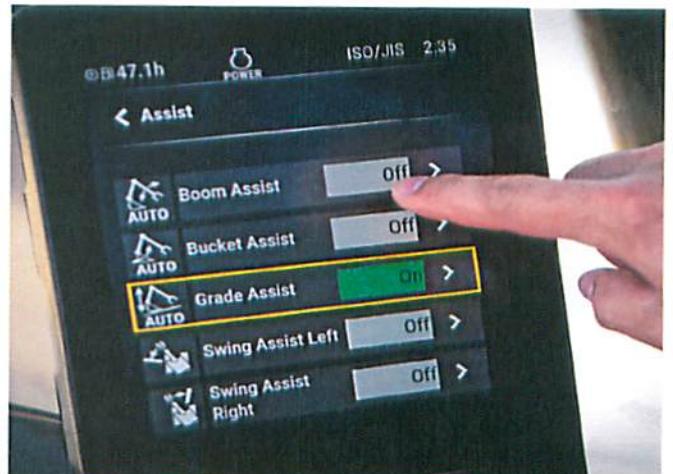
Standard rear- and side-view cameras keep you aware of your surroundings at all times. An optional 360° visibility feature is also available.



TOUCHSCREEN MONITOR

Most machine settings can be controlled through the high-resolution touchscreen monitor. It offers 42 languages and is easy to reach from the seat – no twisting or turning.

Joystick functions can be customized through the monitor. Joystick pattern as well as response can be set to match operator preference. All preferences are saved with the Operator ID and restored at login.



TECHNOLOGY THAT GETS WORK DONE

INCREASE EFFICIENCY UP TO 45%

Boost productivity up to 45% versus traditional grading with standard Cat Grade and Assist technologies. Cat Grade and Assist technologies keep you on grade when visibility is impaired.

CAT TECHNOLOGY	SLR MODELS	LRE MODELS
Cat Product Link™	●	●
Cat Grade with 2D	○	●
Cat Grade with Advanced 2D	○	○
Cat Grade with 3D	○	○
Cat Assist		
– Boom Assist		
– Bucket Assist		
– Swing Assist	○	● ¹
– Grade Assist		
– Lift Assist		
2D E-Fence		
– E-ceiling		
– E-floor	○	●
– E-swing		
– E-wall		
– E-cab avoidance		
Cat Payload		
– Static weigh		
– Semiautomatic calibration	○	●
– Payload information		
Remote Service capability	●	●

● Standard ○ Optional

¹ Cat Assist only available on 340 LRE.

WORK UNDER WATER

Standard waterproof technology provides precision excavation down to 4.5 m (14'9") on long reach excavation excavators and 2.5m (8'2") on super long reach excavators. An optional submarine solution allows you to work down to 20 m (65'8") on either configuration.

	SLR MODELS	LRE MODELS
Waterproof depth of factory installed technology sensors	2.5 m 8'2"	4.5 m 14'9"
Waterproof depth of dealer installed dredging kit	20 m 65'8"	20 m 65'8"



CAT COMMAND

Cat Command is a remote control system featuring onboard electronics, vision systems, and offboard controls that help users achieve consistent quality in their work. Jobs become safer, more comfortable, and more precise – without sacrificing control, feel, or accuracy.

Easy-to-install Command kits include indicator lights and vision systems. A ground level switch toggles between manual and remote operation.



INCREASE YOUR PRODUCTIVITY AND PROFIT WITH CAT ATTACHMENTS¹

SUPER LONG REACH EXCAVATORS

DITCH CLEANING BUCKETS



SKELETON BUCKETS



LONG REACH EXCAVATION EXCAVATORS

COUPLERS



DITCH CLEANING BUCKETS



DITCH CLEANING TILT BUCKETS²



EXCAVATION BUCKETS



MULCHERS



SKELETON BUCKETS



¹Not all attachments available in all regions. Contact your Cat dealer for more information.

²Some Cat technology solutions are not supported with ditch cleaning tilt buckets. Contact your Cat dealer for more information.

SPECIFICATIONS & FEATURES SUMMARY

Specifications may vary due to regional configuration differences. Consult the Technical Specifications document available on www.cat.com or from your Cat dealer for detailed specifications for machines in your region.

SPECIFICATIONS	SUPER LONG REACH (SLR)			LONG REACH EXCAVATION (LRE)		
	320 (SLR)	323 (SLR)	326 (SLR)	330 (SLR)	340 (LRE)	352 (LRE)
Operating Weight*	23 900 kg 52,700 lb	25 100 kg 55,345 lb	29 200 kg 64,300 lb	30 900 kg 68,200 lb	43 900 kg 96,700 lb	58 400 kg 128,800 lb
Engine Model	Cat C7.1	Cat C7.1	Cat C7.1	Cat C7.1	Cat C9.3B	Cat C13
Engine Power – ISO 14396:2002	122 kW 164 hp	129 kW 174 hp	151 kW 202 hp	205 kW 275 hp	234 kW 314 hp	317 kW 425 hp
Undercarriage Type	Long	Long	Long	Long	HDHW	Variable Gauge HDHW
Counterweight	4.7 mt 10,400 lb	5.4 mt 11,900 lb	6.7 mt 14,770 lb	6.7 mt 14,770 lb	10.35 mt 22,800 lb	12.0 mt 26,455 lb
Boom	8.85 m 29'0"	8.85 m 29'0"	10.2 m 33'6"	10.2 m 33'6"	10.6 m 34'9"	11.5 m 37'9"
Stick	6.28 m 20'7"	6.28 m 20'7"	7.85 m 25'9"	7.85 m 25'9"	7.1 m 23'4"	8.5 m 27'11"
Maximum Digging Depth	11 540 mm 37'10"	11 540 mm 37'10"	14 580 mm 47'10"	14 610 mm 47'11"	13 050 mm 42'10"	13 040 mm 42'9"
Maximum Reach at Ground Level	15 570 mm 51'1"	15 570 mm 51'1"	18 280 mm 60'0"	18 280 mm 60'0"	18 080 mm 59'4"	19 640 mm 64'5"
Bucket Digging Force (ISO)	62 kN 13,841 lbf	62 kN 13,841 lbf	61 kN 13,710 lbf	45 kN 10,120 lbf	141 kN 31,590 lbf	141 kN 31,700 lbf
Stick Digging Force (ISO)	49 kN 10,966 lbf	49 kN 10,966 lbf	60 kN 13,490 lbf	45 kN 10,120 lbf	92 kN 20,750 lbf	104 kN 23,380 lbf

*Weight is typical configuration, 90% fuel, operator, and bucket.

FEATURES	SUPER LONG REACH (SLR)			LONG REACH EXCAVATION (LRE)		
	320 (SLR)	323 (SLR)	326 (SLR)	330 (SLR)	340 (LRE)	352 (LRE)
ROPS	●	●	●	●	●	x
Power modes, including Smart mode	●	●	●	●	●	●
Rear- and side-view cameras	●	●	●	●	●	●
360° visibility	○	○	○	○	○	○
Extended and synchronized maintenance intervals	●	●	●	●	●	●
Tool control for hydromechanical attachments	x	x	x	x	○	○
Medium pressure circuit	x	x	x	x	○	○
Quick coupler hydraulic circuit	x	x	x	x	○	○
Cat Product Link	●	●	●	●	●	●
Work tool recognition	●	●	●	●	●	●
Cat Grade with 2D	○	○	○	○	●	●
Cat Grade with 3D	○	○	○	○	○	○
Cat Assist	○	○	○	○	●	x
2D E-Fence	○	○	○	○	●	●
Cat Payload	○	○	○	○	●	●
Remote Flash	●	●	●	●	●	●
Remote Troubleshoot	●	●	●	●	●	●
Submarine kit	○	○	○	○	○	○

● Standard ○ Optional x not available

For more complete information on Cat products, dealer services and industry solutions, visit us on the web at www.cat.com.

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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www.cat.com www.caterpillar.com

AEXQ3108-00
(N Am, Eur)





Tiger™ ROTARY AND FLAIL

TruckKat™



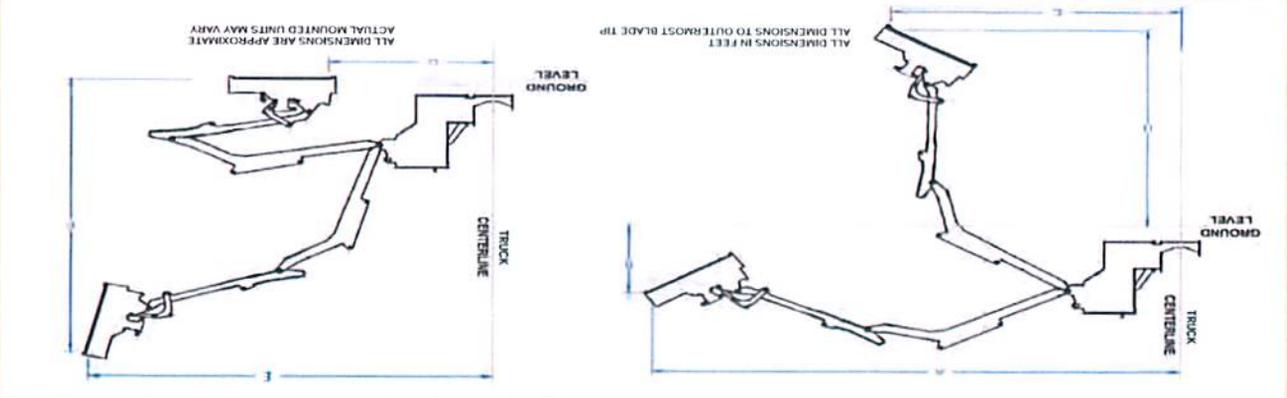
INNOVATION ON THE MOVE

The Tiger TruckKat Boom Mower starts with the highest quality materials and is built with freedom in mind. The freedom to travel to and from a work site at posted road speeds and once at the work site, use the newest technology in enhanced boom mowing equipment to tackle the toughest jobs with ease. Now featuring 22' and 24' booms for more reach and power.



DURABILITY INNOVATION
COMMITMENT

	DOWN			OUT		
Bengal Reaches	CENTERLINE OUT TO BLADE TIP	GROUND LEVEL UP TO BLADE TIP	CENTERLINE OUT TO BLADE TIP	CENTERLINE OUT TO BLADE TIP	GROUND LEVEL UP TO BLADE TIP	CENTERLINE OUT TO BLADE TIP
Bengal RT50	21'6"	19'10"	21'6"	21'6"	19'10"	21'6"
22	21'6"	19'10"	21'6"	21'6"	19'10"	21'6"
24	23'8"	21'7"	23'8"	23'8"	21'7"	23'8"
RT60	22'1"	20'9"	22'1"	22'1"	20'9"	22'1"
22	22'1"	20'9"	22'1"	22'1"	20'9"	22'1"
24	23'8"	21'7"	23'8"	23'8"	21'7"	23'8"
FL50	20'11"	19'9"	20'11"	20'11"	19'9"	20'11"
22	20'11"	19'9"	20'11"	20'11"	19'9"	20'11"
24	22'7"	20'8"	22'7"	22'7"	20'8"	22'7"
FL63	21'6"	21'6"	21'6"	21'6"	21'6"	21'6"
22	21'6"	21'6"	21'6"	21'6"	21'6"	21'6"
24	23'0"	21'11"	23'0"	23'0"	21'11"	23'0"



Boom Dimensions

Stow Height - 13' 5" for 24' Boom
Stow Height - 11' 8" for 22' Boom



Tiger has met the challenges of building a fully operational boom mower that is attached to a truck that meet the legal road limit restrictions. Giving the operator the ability to travel on any road or highway without any special permits. The Truckcat has a total width of just under 8' 6" wide with the tallest point of our boom measuring 13' 5" when in the travel stowed position.

Stow Dimensions

Truck Width - 8'6"



The Tiger Truckcat Boom Mower can be purchased as a turnkey unit with the Freightliner M2 series, or as a truck bed mount designed for 36,000 GVW trucks with dual steering similar to the Freightliner M2 series.




Tiger™

TrucKat



- Dual Control System - Sit on right or left side of truck with complete control of steering, brake and driving of vehicle. Do not attempt to transport truck at road speeds from the right side seat.

- Joystick Control located on right side of truck for precise mowing operation.

- Control Box located in center console for easy access to all mower functions.



Joystick Control



Control Box

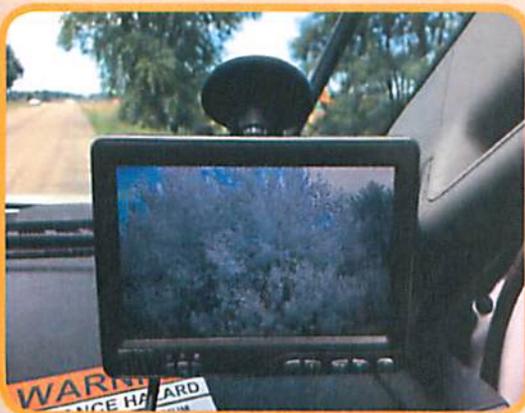
Camera Option



Optional camera located on the right side of the TrucKat allows the operator to view the cutting head in operation while facing forward and steering vehicle.

Camera is fully adjustable to view any angle, built with quick disconnects and mounted magnetically so it can be locked away when not in use.

The monitor shown below is attached using a suction cup device and can be connected to a smooth surface anywhere in the truck. Also features quick disconnects.

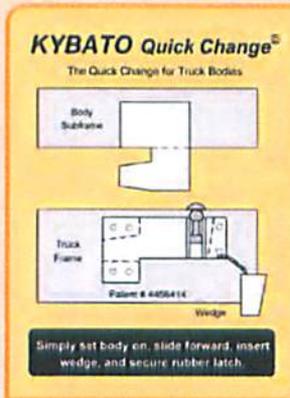


Tiger Features

Productivity. Performance. Power.

With the power of the Tiger TruckKat you can get to the job site and back in record time. The versatility of this innovative machine allows you to mow roadside areas, trim low hanging branches, remove silt from ditches and move snow with ease.

When finished for the day you can drive the TruckKat at road speeds with the traffic flow – increasing safety, cutting down on drive time and improving overall productivity. Experience the power of the all-season Tiger TruckKat.



Remove the Tiger TruckKat in minutes with the use of the patented Kybato Quick Change system. The quick disconnect system allows the truck to be used for other applications throughout the year.

SAFETY FEATURES ACCESSORIES

Engine Make	Cummins QSF2.8	<ul style="list-style-type: none"> • Master ON/OFF Switch • Operator Presence Switches on Right Side Door • Mower Safety Start Switch • Brush Guard Extending Over Cab • Operator Protective Screen Covers Right Hand Door • Manual Emergency Over-ride
Engine Model	QSF 2.8 (Tier 4 Final)	
Power Rating	74 HP @ 1,800 RPM	
Engine Type	4 Cyl., Turbo Diesel	
Throttle Control	Electronic Adjustable	
Hydraulic System	45 GPM @ 3,250 PSI	
Safety Stop	7 Second Shut Down	
Truck Bed	Quick Removable	
Cutter Head	50" or 60" Rotary 50" or 63" Flail	
Transport Width	8' 6"	
Controls	Electronic Joystick	



OPTIONAL TRAILER HITCH



BOOM SWEEPER



FIRE SUPPRESSION



TURBINE BLOWER



SAW BLADE



SNOW BLOWER



TREE SHEAR

Tiger Corporation
3301 N Louise Ave.
Sioux Falls, SD 57107
800-843-6849
www.tigermowers.com
An Alamo Group Company



Dealer Info:

Specifications are subject to change. Optional equipment may be shown. Meets all applicable ANSI / SAE test standards. © 2017 Tiger Corporation. All Rights Reserved. Printed in the USA.



MADE WITH PRIDE IN THE



Purchase Order for
John Deere Equipment (U.S. Only)

PO# 08210268
PO Revision# Original Item 10.

PURCHASER'S NAME - First Signer (First, Middle Initial, Last) BEAUFORT COUNTY, SC (SECOND LINE OF OWNER NAME)			DATE OF ORDER Aug 11, 2021	COMPANY UNIT 01	DEALER ACCOUNT NO. 013118
STREET OR RR 120 SHANKLIN RD			SOC. SEC.	IRS NO.	EIN NO.
TOWN BEAUFORT	STATE SC	ZIP CODE 29906	TRANSACTION TYPE Cash Sale		PURCHASER SALES TAX EXEMPT
COUNTY Beaufort	PURCHASER ACCT.	PHONE NO. 843-255-6415	SELLER'S NAME & ADDRESS Deere & Company 2000 John Deere Run Cary, NC 27513 843-761-3822		
REWARDS #			E-MAIL ADDRESS		
Use County BEAUFORT	Use State/Province SC		I (We), the undersigned, hereby order from Dealer the Equipment described below, to be delivered as shown below. This order is subject to Dealer's ability to obtain such Equipment from the manufacturer and Dealer shall be under no liability if delivery of the Equipment is delayed or prevented due to labor disturbances, transportation difficulties, or for any reason beyond Dealer's control. The price shown below is subject to Dealer's receipt of the Equipment prior to any change in price by the manufacturer. It is also subject to any new or increased taxes imposed upon the sale of the Equipment after the date of this order.		

QTY	NEW	DEMO	RENTAL	USED	Equipment & Value Added Service (Give Model, Size & Description)	Hours of Use	PRODUCT IDENTIFICATION NUMBER	DELIVERED CASH PRICE (Or Total Lease Payments)
1	X				TIGER TrucKat Mower SOURCEWELL CONTRACT PRICING	0		\$ 218,122 40
I (We) offer to sell, transfer, and convey the following item(s) at or prior to the time of delivery of the above Equipment, as a "trade-in" to be applied against the cash price. Such item(s) shall be free and clear of all security agreements, liens, and encumbrances at the time of transfer to you. The following is a description and the price to be allowed for each item.						TOTAL CASH PRICE		\$ 218,122 40
QTY	DESCRIPTION OF TRADE-IN				Hours of Use	PRODUCT IDENTIFICATION NUMBER	AMOUNT	
PURCHASER TYPE MARKET USE						TOTAL TRADE-IN ALLOWANCE		\$ 0 00
						1. TOTAL CASH-PRICE		\$ 218,122 40
						2. TOTAL TRADE-IN ALLOWANCE		\$ 0 00
						3. TOTAL TRADE-IN PAY-OFF		\$ 0 00
						4. BALANCE		\$ 218,122 40
						5. Vehicle Tax - (0.23%)		\$ 500 00
						8. EST. SERVICE AGREEMENT TAXES		\$ 0 00
						6. SUB-TOTAL		\$ 218,622 40
						7. CASH WITH ORDER		\$ 0 00
						8. RENTAL APPLIED		\$ 0 00
						9. CASH DISCOUNT		\$ 0 00
						10. BALANCE DUE		\$ 218,622 40

IMPORTANT WARRANTY NOTICE:The John Deere warranty applicable to new John Deere Equipment is printed and included with this document. There is no warranty on used equipment. The new equipment warranty is part of this contract. Please read it carefully. **YOUR RIGHTS AND REMEDIES PERTAINING TO THIS PURCHASE ARE LIMITED AS SET FORTH IN THE WARRANTY AND THIS CONTRACT. IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS ARE NOT MADE AND ARE EXCLUDED UNLESS SPECIFICALLY PROVIDED IN THE JOHN DEERE WARRANTY.**

Telematics: Orders of telematic devices include only the hardware. Where available, telematics software, including JDLink™ connectivity service, may be enabled from your local John Deere Operations Center or JDLink website. Please see your authorized John Deere dealer for assistance.

DISCLOSURE OF REGULATION APPLICABILITY: When operated in California, any off-road diesel vehicle may be subject to the California Air Resources Board. In-Use Off-Road Diesel Vehicle Regulation. It therefore could be subject to retrofit or accelerated turnover requirements to reduce emissions of air pollutants.

ACKNOWLEDGEMENTS- I (We) promise to pay the Balance Due (line10) shown above in cash, or to execute a Time Sale Agreement (Retail InstallmentContract), or a Loan Agreement, for the purchase price of the Equipment, plus additional charges shown thereon or execute a Lease Agreement, on or before delivery of the Equipment ordered herein. Despite physical delivery of the Equipment, title shall remain in the seller until one of the foregoing is accomplished.

USE OF INFORMATION/PRIVACY NOTICE I understand that Deere & Company and its affiliates ("John Deere") and Dealer collect information, including my personal information and machine data to provide warranty, customer service, product and customer support, marketing and promotional information about Dealer, John Deere and their equipment, products and services and to support other business processes and purposes. See the John Deere Privacy Statement (<https://www.deere.com/en/privacy-and-data/privacy-statements/>) for additional information on the types of personal information and machine data John Deere collects, how it is collected, used and disclosed. See Dealer directly for information about its privacy policy.

Purchaser's Signature _____ Accepted By _____
Purchaser's Signature _____ Date Accepted _____ Salesperson CHASTAIN, TODD

Delivery Acknowledgement			
Delivered On:	<input type="text"/>	Signature	Date
Warranty Begins:	<input type="text"/>		



Non-Competitive Purchases Form



This form shall be completed for any non-competitive purchase that is not exempt.

(a) A County contract may be awarded without competition when the Purchasing Director determines in writing, after conducting a good faith review of available sources, that there is only one source for the required supply, service, or construction item. The Purchasing Director shall conduct negotiations, as appropriate, as to price, delivery, and terms. A record of sole source procurements shall be maintained as public record and shall list each contractor's name, the amount and type of each contract, a listing of the items procured under each contract, and the identification of each contract file.

(b) Sole source procurement of a used item from the open market may only be considered, provided that:

- (1) The using agency recommends purchase; (2) condition of the item is verified by appropriate County official; and (3) price analysis justifies purchase when the following factors are considered: (a) new acquisition price; (b) current book value; and (c) maintenance costs.

Code 1982 SS 12-19 Sec. 2-518 Sole source procurement

The County Council may by resolution, exempt specific supplies or services from the purchasing procedures required in the Code. The following supplies and services shall be exempt from the purchasing procedures required in this division; however, the Purchasing Director for just cause may limit or withdraw any exemption provided for in this section. (1) Works of art for museum and public display (2) Published books, library books, maps, periodicals, technical pamphlets (3) Copyrighted educational films, filmstrips, slides and transparencies (4) Postage stamps and postal fees (5) Professional dues, membership fees and seminar registration fees (6) Medicine and drugs (7) Utilities including gas, electric, water and sewer (8) Advertisements in professional publications or newspapers (9) Fresh fruit, vegetables, meats, fish, milk, bread and eggs (10) Oil company credit cards (11) Articles for commercial sale by all governmental bodies

Code 1982 SS 12-14 Ord. No. 2000-1 S 1, 1-1-0-2000 Sec. 2-514 Exemption from procedures

Notwithstanding any other section of this division, the Purchasing Director may make or authorize others to make emergency procurements of supplies, services, or construction items when there exists a threat to the functioning of county government; for the preservation or protection of property; or for the health, welfare or safety of any person, provided that such emergency procurements shall be made with such competition as is practicable under the circumstances. A written determination of the basis for the emergency and for the selection of the particular contractor shall be included in the contract file. As soon as practicable, a record of each emergency procurement shall be made and shall set forth the contractor's name, the amount and type of the contract, a listing of the items procured under the contract, and the identification number of the contract file.

Code 1982 SS 12-20 Sec. 2-519 Emergency procurements

Requesting Department: Public Works Requested Account Code: 10001301

Department Head Email: nilesh.desai@bcgov.net

Description of Requested Services:

Truckat is a vehicle with a mower attached that can accomplish multiple areas and move to next.

Please provide a listing of the items purchased, if additional pages are necessary please attach to this form:

Truckat and all attachments

Cost of Requested Services: \$218,622.40

Requested Vendor Name: Sparrow and Kennedy Tractor

Requested Vendor Address: 2060 South Live Oak Drive Moncks Corner, SC 29461

Requested Vendor Phone Number: 843-761-3822 Requested Vendor Email Address: sparrowsales@homesc. ...

Type of Service Requested (Please check one) Construction Service Supply/Good

Please attach any documentation provided by the vendor that provides back up for the claims in this document.

Attachments:



Truckst Letter for Beaufort County SC 8-11-2021.docx
115.17 KB

No file attached

No file attached

Please select a reason below as to why this is a non-competitive purchase and provide a brief explanation.

- It is not possible to obtain competition. There is only one source available for the supply, service, or construction item.

The procurement is for a used item from the open market. The item may only be considered if, (1) the using agency recommends purchase, (2) condition of the item is verified by appropriate County official, (3) Price analysis justifies purchase when the following factors are considered: (a) new acquisition price; (b) current book value; and (c) maintenance costs.

The item is a single source purchase. Other sources may be available but purchases are directed to one source because of factors unique to Beaufort County. Please select an option below:

Standardization

Warranty

Other, if selected please specify below.

Tigerkat is the only manufacturer of an asset of this type. They hold the patent for a vehicle mower of this sort.

An emergency exists that threatens the functioning of County government.

An emergency exists that threatens the preservation or protection of County property.

What steps have been taken to verify that these features are not available elsewhere?

Other brands/manufacturers were examined (please list names and contact information, and explain why they are not suitable for use by the County-attach additional pages as necessary):

Communicated with Lee Transport, Dick Smith Ford, Santee Automotive and none could assist in this asset.

Other vendors were contracted (please list names and contact information and explain why those contacted did not meet the needs of the County-attach additional pages as necessary):

Form Completed By: kgottschalk Date: 8/12/2021

***** Department Head Section *****

Department Head Signature: nilesh.desai Date: 8/12/2021

***** Purchasing Review Section *****

Date Received in Purchasing Department: 8/15/2021

Reviewed by Purchasing Department for completeness

Date: 8/15/2021

Reviewed by: dthomas

Verified that this is the only source: Yes No

Comments:

Purchasing Director Signature: Approve Disapprove dthomas 8/15/2021 7:40:54 PM
Date / Time

Associated Purchase Orders Number: _____

Associated Contract Number: _____

***** Purchasing Completion Section *****

Process Complete: victoria.moyer Date: 8/16/2021
8:24:49 AM

Submitted: 8/10/2021



BEAUFORT COUNTY COUNCIL AGENDA ITEM SUMMARY

Item 10.

ITEM TITLE:
Request to purchase of a Tiger Truckat Mower
MEETING NAME AND DATE:
Public Facilities Committee Meeting – September 20, 2021
PRESENTER INFORMATION:
Jared Fralix, P.E., Assistant County Administrator, Engineering Neil J. Desai, P.E., Public Works Director (5 Minutes)
ITEM BACKGROUND:
Replacing Asset# 21300 – 2002 John Deere Utility Tractor 6320 that caught fire and it was determine by the County’s insurance company to be a total lost.
PROJECT / ITEM NARRATIVE:
Purchase of Truckat Mower is an essential piece of equipment that will utilized by the Public Works Department to maintain the County’s roadside Right of Ways.
FISCAL IMPACT:
Tiger Corporation, a Sourcewell/State Contract vendor has proposed a cost of \$218,622.40. The funding source for this purchase was approved in FY2022 budget meeting for Public Works account number 10001301-54000. In addition, the insurance reimbursement will be applied to the purchase as well.
STAFF RECOMMENDATIONS TO COUNCIL:
Public Works Director and Fleet Manager recommends approving the purchase of the Truckat Mower to replace the John Deer Tractor.
OPTIONS FOR COUNCIL MOTION:
Motion to either accept/deny the recommendation to approve the purchase of the Truckat Mower <i>Next Steps - A Majority Vote for Acceptance by Committee would move item forward to final acceptance by full County Council vote.</i>



BEAUFORT COUNTY COUNCIL AGENDA ITEM SUMMARY

ITEM TITLE:
Request the purchase of a Ford F550 4 x4 Crew Cab w/ Crane Service Body (\$149,826)
MEETING NAME AND DATE:
Public Facilities Committee Meeting – September 20, 2021
PRESENTER INFORMATION:
Jared Fralix, P.E., Assistant County Administrator, Engineering Neil J. Desai, P.E., Public Works Director (5 Minutes)
ITEM BACKGROUND:
Per contract, Beaufort County is to provide a Field Service Vehicle to First Vehicle Services to provide mobile support for vehicle maintenance to the County fleet.
PROJECT / ITEM NARRATIVE:
2006 Ford F-450 is currently being used by First Vehicle Services as a Field Service Vehicle, which has 156k miles and has numerous mechanical issues. The Fleet Division understands the importance to standardize the County’s Fleet and recommends continuing to purchase Ford vehicles. Also, the maintenance service on this vehicle is rated at a higher non-contract price and by obtaining a new vehicle Beaufort County will not have to pay the higher maintenance cost.
FISCAL IMPACT:
Vic Bailey, a vendor on the State contract, has offered to honor the cost of this vehicle at \$149,826.00. The funding source for this purchase has been approved in the FY2022 budget within the Public Works Department account number 10001301-54000.
STAFF RECOMMENDATIONS TO COUNCIL:
Public Works Director and the Fleet Manager recommend approval of the purchase of the F550 to Vic Bailey Ford to support all of Beaufort County Fleet assets.
OPTIONS FOR COUNCIL MOTION:
Motion to either accept/deny the recommendation to approve the purchase of the F550 to support all of Beaufort County Fleet assets. <i>Next Steps - A Majority Vote for Acceptance by Committee would move item forward to final acceptance by full County Council vote.</i>

VIC BAILEY FORD

David Vetter 864.585.3600 or 800.922.1365

Item 11.

2021 FORD F250

PU -7: Truck, Pick Up, 4x2, 3/4 Ton, Crew Cab, 6.75' Body

Contract #: 4400022492

Standard Equipment Included:

6.2L V-8 Engine

Automatic Transmission

A/C

AM/ FM Radio

160" Wheel Base 6.75' Bed

Cruise Control

Power Steering

Power Brakes

Power Windows and Door Locks

Vinyl 40/20/40 Bench Seat

Heavy Duty Vinyl Floor

XL Trim

SC STATE CONTRACT PRICE:

\$26,927.00

Body Installation/Coordination Fee

\$600.00

W5H F550 Crew Cab 4x4 Chassis w/ 179" Wheelbase/60" CA

\$18,258.00

68M 19,500lb Payload Upgrade

\$1,157.00

18B Factory Installed Cab Steps (Super Cab and Crew Cab)

\$446.00

Body Installed per Lee Quote# GS-01272021-K

\$99,670.00

872 Rear View Camera Prep Kit for Chassis Models

\$415.00

Limited Slip Rear Axle

\$391.00

L Vinyl 40/Mini-Console/ 40 Seats

\$358.00

942 Daytime Running Lights

\$47.00

Trailer Tow Wiring and Hitch - Aftermarket Installed

\$475.00

62R Transmission Power Take-Off

\$282.00

Delivery

\$300.00

IMF - Sales Tax

\$500.00

TOTAL SC STATE CONTRACT PRICE:

\$149,826.00

ADDITIONAL AVAILABLE FACTORY INSTALLED OPTIONS:

99T 6.7L Diesel Engine

\$9,335.00

TGM 225/70R19.5 Traction Tires - Rear Only

\$191.00

TGK 225/70R19.5 Traction Tires - Front and Rear

\$215.00

Groups and Packages - See Tab Below for Option Content

96V XL Value Package

\$396.00

913 Sync 3 - Enhanced Voice Recognition Communications and Entertainment System

\$452.00

Trailer Options:

52B Trailer Brake Controller

\$274.00

Electrical - Battery and Alternator Options:

67B 397 Amp Alternator

\$115.00

Functional Options:

41H Engine Block Heater

\$101.00

66S Upfitter Switches

\$165.00

41P Skid Plate Package (4x4 Only)

\$102.00

473 Snow Plow Prep Package (4x4 Models Only)

\$252.00

86# Engine Idle Shutdown (Diesel Engine Only - Specify 5, 10, 15 or 20 Minutes)

\$252.00

98R Operator Commanded Regeneration (Diesel Engine Only)

\$252.00

76S Remote Start

\$252.00

43C 110V/400W Outlet

\$176.00

924/4 Privacy Glass w/ Black Glass Defroster

\$92.00

76C Exterior Back Up Alarm/Chime

\$142.00

942 Daytime Running Lights

\$47.00

926 Speed Limitation - 65 MPH Governed Top Speed

\$82.00

927 Speed Limitation - 75 MPH Governed Top Speed

\$82.00

18A	Upfitter Interface Module									\$296.00
	Safety Options:									
94P	Pre-Collision Assist w/ Automatic Emergency Braking									\$118.00
	Seating Options - XL Package - Crew Cab Models:									
4	Cloth 40/Mini-Console/ 40 Seats									\$616.00
1	Cloth 40/20/40 Bench Seat									\$316.00
	After Market Installed Options:									
	Warn 12000lb Zeon Winch & Black Grill Guard									\$2,162.00
	Warn 12000lb M12 Winch & Black Grill Guard									\$2,795.00
	Warn Brush Guard for Winch									\$400.00
	2" Ball, Receiver Tube and Pin for Frame Mounted Hitch									\$45.00
	3 - Ball Hitch									\$125.00
	Combo Ball and Pintle Hook									\$165.00
	FMVSS Safety Kit (Fire Ext., Triangle and First Aid Kit)									\$95.00

Item 11.

LEE TRANSPORT EQUIPMENT INC.

P.O. BOX 26, 1300 BLUFF R.D.

COLUMBIA, SOUTH CAROLINA 29202

PHONE# 803-799-7860 FAX 803-765-0535

TRUCK BODIES AND TRUCK EQUIPMENT

Personal Contact: **Katie Gottschalk**

Quote # **GS-01** *Item 11.*
 Date: **1/27/2021**
 Phone # **843-812-7572**
 Fax#

PRICING:

(South Carolina State Contract for Service Bodies Number #4400024845)

Furnish and install Stellar Model TMAX-1, 11' Crane service body to include.	\$ 21,985.00
LED body lights standard shelving package.	INC
20" work bench bumper with thru compartment and full hydraulic outriggers.	\$ 6,955.00
Stellar 7630 full hydraulic field service crane with FM remote and boom support.	\$ 28,895.00
Add suspension springs to level truck under crane side.	\$ 950.00
Class 5 receiver hitch with 7-way plug and back up alarm.	\$ 490.00
2-LED work lights installed on rear of body.	\$ 360.00
Kevlar spray in liner installed in cargo area, compartment tops and on rear bumper.	\$ 850.00
4-corner strobe light system (B12-AW) in front grill and on rear of body.	\$ 685.00
LED compartment lights installed in service body.	\$ 685.00
American Eagle 7-drawer tool box installed in street side front compartment.	\$ 1,685.00
Full height body with oxy-acetylene bottle holders in curb side front compartment.	\$ 4,250.00
Master locking system installed.	\$ 695.00
Vmac H-60, 60cfm rotary screw air compressor installed on street side front with FLR.	\$ 11,950.00
Cab guard installed with Stryker LED GoLight.	\$ 995.00
50' Air hose reel installed on street side rear compartment exiting out of the rear of the body.	\$ 750.00
One row E-Track installed each side in cargo area 2" from top.	\$ 355.00
Install dealer furnished rear back up camera when body is complete.	INC
Miller Bobcat 250 welder installed on top of street side rear compartment (no welding leads).	\$ 5,150.00
TP&L 4-Product Lube skid to customers specifications.	\$ 11,985.00

Crane, body and all accessories completely installed, painted and ready to go.

Note: Chassis must have factory PTO provision and 19.5" tires.

Price good for 30 days.

Tax not Inc.

Insurance: Customers chassis covered with primary coverage insurance while

Price: \$ 99,670.00

in the care and the custody of L.T.E. Product Liability insurance carried.

Special Discount:

Chassis: **19,500 GVWR** C/A **84"** Paint: **White**

Net Price: \$ 99,670.00

Other Data:

Local Option Tax: \$ -

State Sales Tax:

Total Price:

Tax Exempt No

Terms:

Delivery Date:

Lee Transport Equipment, Inc.

Accepted By

Date:

By: **Greg L Stowers**

Stellar® Service Cranes and TMAX™ Service Bodies

7621 / 7630



TECHNICAL SPECIFICATION GUIDE

STELLAR®
CDT
plus
EQUIPPED



Our People. Our Products.

STELLAR® 7621/7630 TECHNICAL SPECIFICATION GUIDE

SPECIFICATION INFORMATION

Crane Rating (with Boost):	44,840 ft-lb (6.2 tm)*
7621 Boom Length:	11' (3.35 m) from CL of Crane
7630 Boom Length:	13' 4" (4.06 m) from CL of Crane
7621 Boom Extension:	
• 1st Stage:	Hydraulic 60" (152.4 cm)
• 2nd Stage:	Hydraulic 60" (152.4 cm)
7630 Boom Extension:	
• 1st Stage:	Hydraulic 100" (254 cm)
• 2nd Stage:	Hydraulic 100" (254 cm)
7621 Max. Reach:	21' (6.40 m) from CL of Crane
7630 Max. Reach:	30' (9.68 m) from CL of Crane
7621 Max. Vertical Lift:	23' (7.01 m)
7630 Max. Vertical Lift:	31' 9" (9.68 m)
Boom Elevation:	-10° to +80°
Stowed Height: (crane only)	37.75" (82.6 cm)
Mounting Space Required:	20" x 21" (50.8 x 53.3 cm)
Approximate Crane Weight:	7621 - 1,885 lbs (855 kg) 7630 - 2,100 lbs (953 kg)
Controls:	Stellar® CDTplus™ radio control standard for all functions
Winch	
• Rope Diameter:	3/8" (0.95 cm) 6X31 IWRC-DGXIP X 100' (30.48 m)
• Line Pull Speed:	60 ft/min (18.29 m)
• Max. Single Part Line:	3750 lbs (1700 kg)
• Max. Double Part Line:	7500 lbs (3402 kg)
Rotation:	400° power (worm gear)
7621 Lifting Capacities:	7500 lbs @ 5'10" (3400 kg @ 1.78 m)** 2135 lbs @ 21' (965 kg @ 6.40 m)**
7630 Lifting Capacities:	7500 lbs @ 5'10" (3400 kg @ 1.78 m)** 1490 lbs @ 30' (675 kg @ 9.14 m)**
Power Supply Required:	PTO & Pump 8 gpm @ 3000 psi (30.31 lpm @ 207 bars)
Min. Rec. Chassis (GVRW)	19,000***

NOTE: All Stellar cranes meet ANSI B30.5 and OSHA 1910.180 specifications. Specifications subject to change without notification.

*Crane rating in Boost Mode. Normal crane rating is 38,000 ft-lbs (5.25 ton-m)

**Maximum capacities in Boost Mode.

***Guideline for Stellar® TMAX™ package with curbside rear crane.

Consult with Stellar for other installations.

DEFINING CHARACTERISTICS

Stellar® CDTplus™ (Crane Dynamics Technology Plus™)

The Stellar CDTplus control system is EXCLUSIVE TO STELLAR and features a NEW handheld transmitter with an over-molded rubber bumper system to maximize durability while keeping it lightweight. The new LCD display features operator feedback including real time load capacity, maximum distance with the current load, boom angle, and percentage of load. The boost feature allows a momentary increase in the capacity of the crane, and a Safe Mode to keep the crane and operator safe should a load indicating device fail to operate correctly. The new Stellar CDTplus remote handle features a rechargeable battery and an in-cab docking and recharging station.

Full Hydraulic Extension

The Stellar CDTplus series offers cranes in either 21' or 30' of all hydraulic reach. No manual extensions.

Market Leading Boom Articulation

The Stellar CDTplus cranes offer -10 degrees to +80 degree. This gives the operator both easy reach to snatch block stowing and the best ability to load items into the load bed.

Quick Release Snatch Block Stow

The Stellar quick release snatch block stow is installed on the underside of the boom to easily stow your snatch block after use. Plus, its unique design gently releases the snatch block for use when the boom is raised at close to 60 degrees to ensure a safe and orderly deployment.

On-Demand Speed Control

The Stellar exclusive on-demand speed control ramps engine RPM up only when the crane is being used. When the crane is not used for 5 seconds engine RPM returns to idle. This lowers fuel consumption and reduces noise pollution in the work area.

Maximum Foot-Pound Rating

The Stellar CDTplus series cranes offers robust ft. lb. ratings during standard mode and increases that by 18% during "Boost" mode to help you get maximum lift when you need it most.

Planetary Winch

The planetary winch on every crane manufactured by Stellar was designed to match the capacity and hydraulic control system. It lifts the maximum crane load and offers the smoothest and fastest speeds in the market today to help keep your productivity at maximum levels.

400 Degree Enclosed Rotation

Stellar uses a durable enclosed rotation system with a cast iron base and an internal mechanical stop to provide the most durable rotation system found in the industry.

Greaseable Pivot Bushings

Each pivot pin location on the CDTplus series crane includes bushings and grease zerks to provide for years of use.

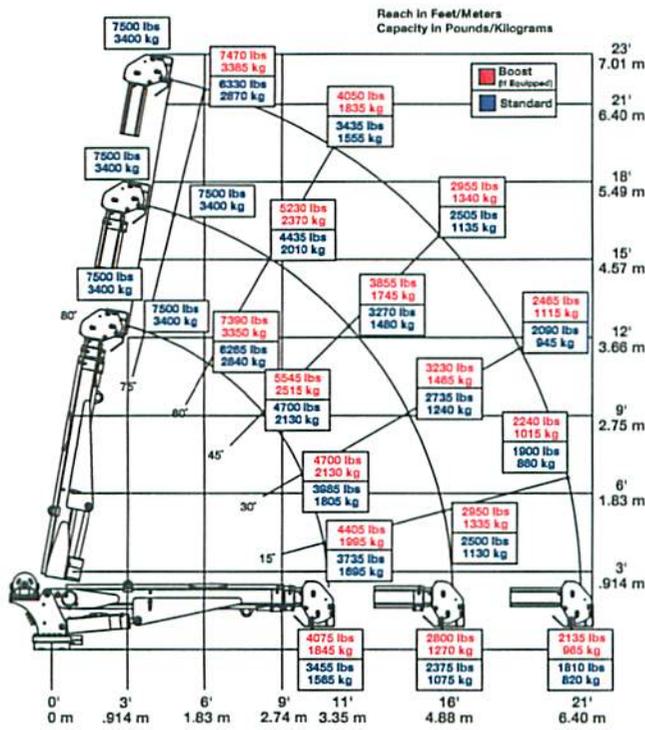
Hexagonal Booms

Stellar Industries made the hexagonal boom design famous in the telescopic service crane market. The hexagonal boom design is optimized to deliver dramatically less boom flex and side to side movement than other boom designs on the market.

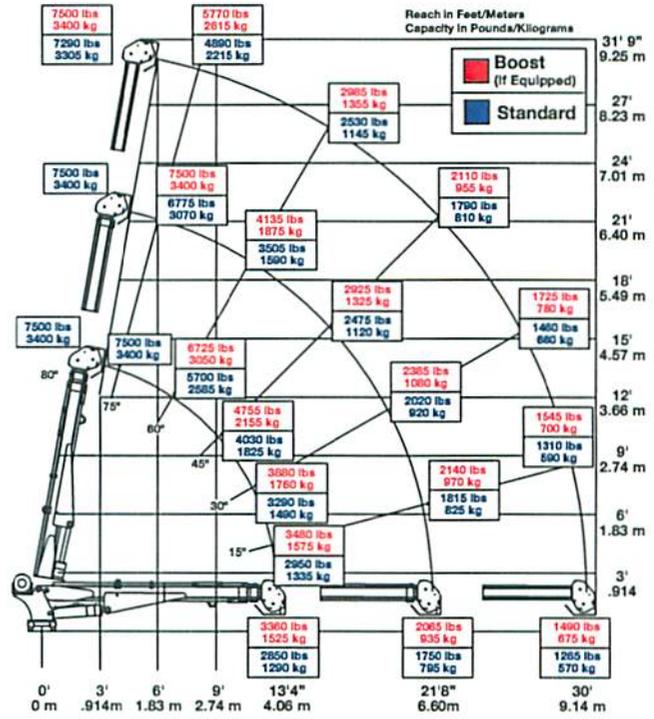
Flip Sheave with Bar Style Anti-Two Block

The Stellar CDTplus series is available standard with our patent pending flip sheave with a bar style ATB. The flip sheave allows for a shorter horse head profile which allows for boom placement in tight quarters, such as an equipment cab.

7621 CAPACITY CHART



7630 CAPACITY CHART



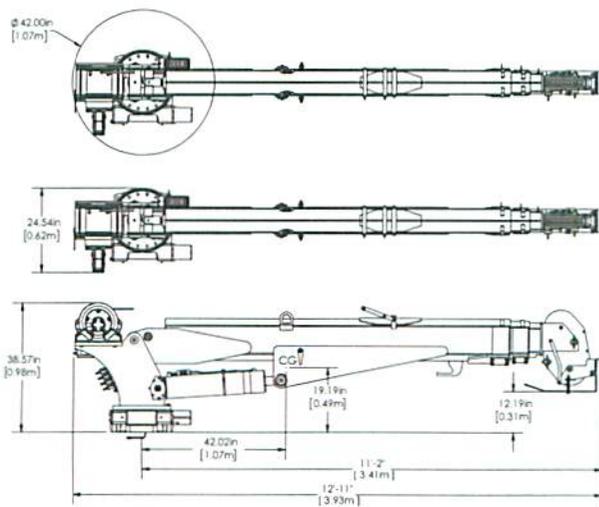
Weight of load handling devices are part of the load lifted and must be deducted from the capacity.

Maximum 1-part line capacity is 3750 lbs. (1700 kg). For greater loads, use 2-part line.

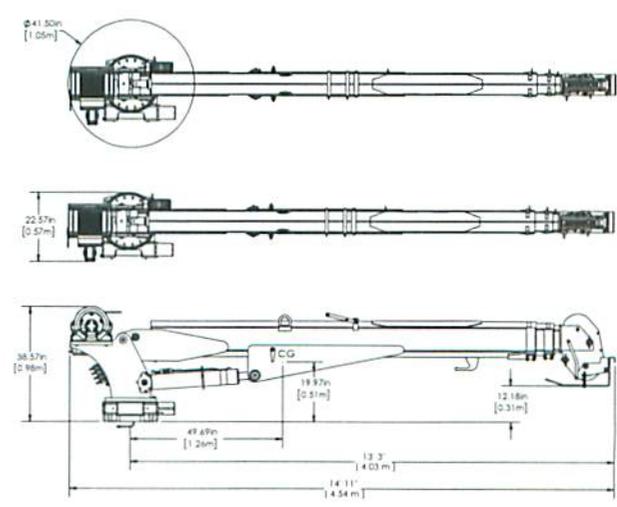
Weight of load handling devices are part of the load lifted and must be deducted from the capacity.

Maximum 1 - part line capacity is 3750 lbs. (1700 kg). For greater loads, use 2 - part line.

7621 DIMENSIONS



7630 DIMENSIONS



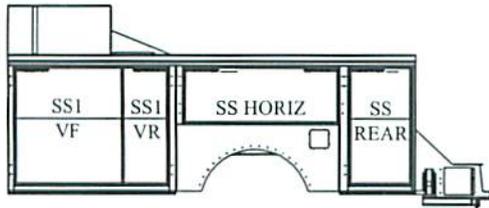
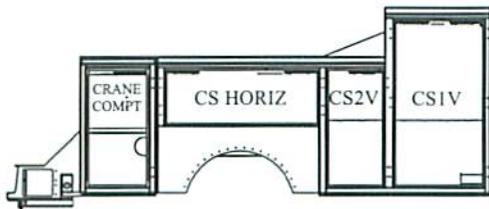
NEW TMAX Service Bodies

TMAX1™ Service Body

Applicable Chassis: 16,000 – 19,500 GVWR
(19.5 tire size)

Compatible Crane Models: 3315
4421
5521
7621
7630

Cab to Axle: 84" (213.36 cm)
Body Length Nominal: 133" (337.82 cm)
Body Height: 44" (111.76 cm)
Body Width: 94" (238.76 cm)
Compartment Depth: 22" (55.88 cm)
Floor Width: 50" (127 cm)
Net Weight: 3220 lbs (1460.37 kg)

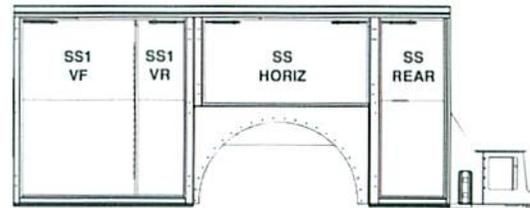
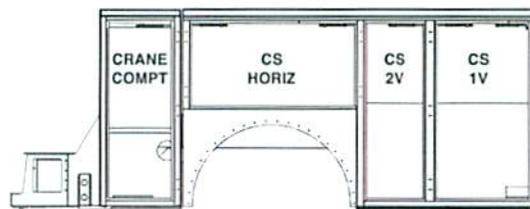


TMAX2™ Service Body

Applicable Chassis: Above 19,500 GVWR
(22.5 tire size)

Compatible Crane Models: 7621
7630
9621
9630
10621
10630

Cab to Axle: 84" (213.36 cm)
Body Length Nominal: 133" (337.82 cm)
Body Height: 52" (132.08 cm)
Body Width: 94" (238.76 cm)
Compartment Depth: 22" (55.88 cm)
Floor Width: 50" (127 cm)
Net Weight: 3600 lbs (1632.93 kg)



Your local distributor:



Our People. Our Products.

190 State Street
P.O. Box 169
Garner, IA 50438
Telephone: (641) 923-3741 • (800) 321-3741
Fax: (641) 923-2812
Internet: www.stellarindustries.com
Email: sales@stellarindustries.com

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STL000060 4/2020



TMAX™

Series

Service Bodies



Mechanic Trucks by Stellar Industries offer the most innovative features in the industry. Complete turnkey packages available with a heavy-duty steel body and American Eagle air compressor and heavy-duty drawer systems.

Designed and Manufactured By



www.stellarindustries.com

STELLAR® TMAX™ SERIES BODIES

Mechanic Trucks by Stellar Industries offer the most innovative features in the industry. Built to the highest standards demanded of all Stellar products, the Mechanic Truck by Stellar Industries offers the most complete turnkey packages available with a heavy-duty steel body, air compressor, drawer system and available options.



- Complete turnkey packages available with a heavy-duty steel body and American Eagle air compressor and drawer systems
- Stellar service cranes feature hexagonal booms which makes them stronger, reduces boom flex and excessive side-to-side boom movement
- Stellar offers a wide range of lifting capacities up to 14,000 pounds
- Planetary winches provide line speed up to 60-feet per minute
- Up to 30-feet of hydraulic reach
- Quick release snatch block stow
- 400-degree power rotation on most models
- Standard Stellar® CDT™ and Stellar® CDTplus™ radio remote with optional E-Link control system
- On demand speed control
- Dual acting counter balance valves integrated into hydraulic cylinders
- Flip sheave with bar style ATB
- Stellar® CDTplus™ cranes offer -10 degrees to +80 degrees. This gives the operator both easy reach to snatch block stowing and the best ability to load items onto the load bed

Stellar TMAX™ Series Service Bodies

TMAX™ 1 Service Body

Designed to meet the needs of public utilities, municipalities and construction companies requiring medium lifting range.

TMAX™ 2 Service Body

Perfect for mining companies, heavy equipment dealers and construction companies requiring heavy lifting at a longer range.

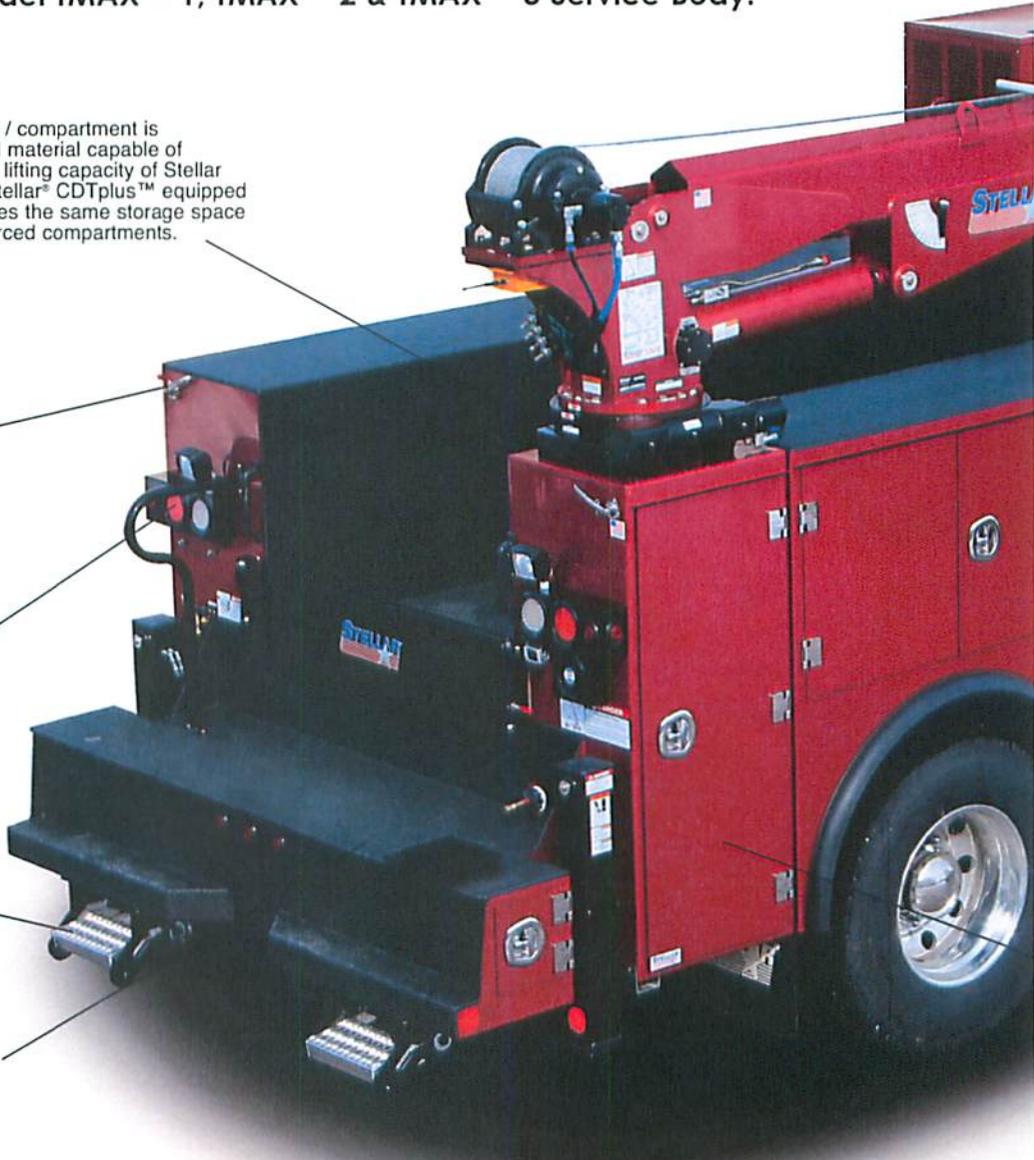
TMAX™ 3 Service Body

Serving the increasing demands of heavy equipment dealers, the mining industry and large construction companies who operate sizable fleets with even larger equipment needing service.

TMAX Series

The Best Features in the Industry are Standard on Every Stellar® Model TMAX™ 1, TMAX™ 2 & TMAX™ 3 Service Body.

- The crane pedestal / compartment is constructed of steel material capable of handling the robust lifting capacity of Stellar cranes, including Stellar® CDTplus™ equipped cranes. This provides the same storage space as other non-reinforced compartments.
- The rotating masterlock system soundly secures each door, and accepts your pad lock of choice to protect your valuable tool supply.
- Exterior mounted light box provides maximum protection for the lights yet minimizes intrusion into the compartments.
- Slide out step.
- Smooth steel workbench surface bumper, with recess for pintle hitch. Step bumper and grab handles are standard.



Stainless steel billet style hinge has hidden fasteners and a rugged 5/16" stainless steel rod. All combined to stand up to years of heavy use.



3-Point compression latches positively compress compartment weather strip for weather tightness, while allowing easy access.



Double spring over center door closures on all vertical doors, keeps door in positive open or closed position.



250-lb capacity adjustable divider shelves made of spangled galvanized steel.



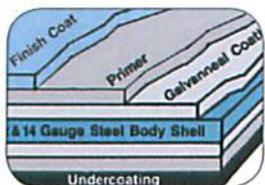
• The Stellar TMAX mechanic service body uses a roller type boom support. The roller boom support helps to center the crane boom when stowing.

• Rugged 12-gauge two-sided A-40 galvaneal steel body shell.

• Bodies are finished with two-part polyurethane enamel.

• For reduced truck weight and added corrosion protection, the doors are made of 5000 series aluminum and feature a two-panel design with a mechanically and chemically bonded internal hat channel to offer ultimate strength and greater resistance to bending.

• Every Stellar mechanic service body features our torq-isolator crane support design and isolates the crane compartment from the rest of the side pack. Lifting stresses are transferred to the stabilizers and box-type subframe, not the compartment doors.



Complete undercoating, with minimum of 3 mils of petroleum base material, provides extra protection from corrosion and road debris.



Full width longbar storage compartment integrated into the rear workbench bumper. Removable vise pedestal is standard.

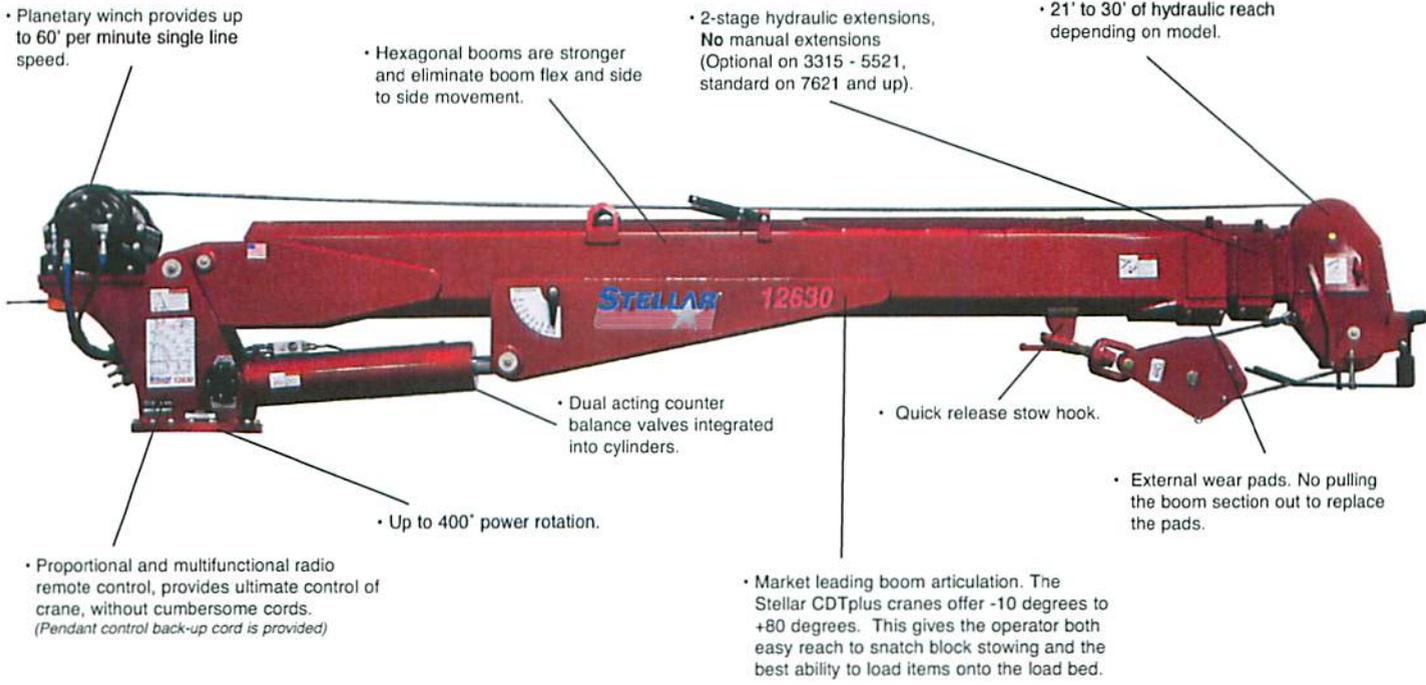


12-gauge double panel tailgate with hinged arm brackets to provide a stout working surface.



Encased in a durable nylon braided loom, the standard electrical wiring harness used by Stellar covers all functions, and features the use of weather-tight connectors.

STELLAR® TELESCOPIC SERVICE CRANES



Stellar® CDTplus™ (Crane Dynamics Technology Plus™)

A proprietary collection of revolutionary features that includes a two-way communication and feedback feature, a crane boosting feature, and an enhanced safety-monitoring feature.



- The CDTplus™ system is the first radio transmitter in the industry to offer real time capacity feedback to the operator. Using a unique 2-color LCD screen, the Stellar® CDTplus™ handheld remote will show actual load, reach, angle and also additional reach possible with the current load.

- Through the use of proprietary technology, the Stellar® CDTplus™ system can also allow operators who exceed standard capacity to productively operate through that situation by increasing crane capacity to 118% of its normal operating capacity for a short period of time.
- Stellar® CDTplus™ equipped cranes feature an enhanced safety system. If a device intended to monitor the capacity of the crane operates incorrectly, the crane will put itself into safe mode. Safe mode will allow the operator to work with the crane at a reduced speed until the safety device is in proper working order.



Stellar® E-Link Control System

The Stellar® E-Link Control system is a robust design meant to handle the rigors our industry demands. It also offers a multi-color backlit design for easy viewing in low light conditions, and is IP67 rated to resist dust and moisture interference.

(Available with Stellar® CDTplus™ only on cranes 7621 and larger)



Flip Sheave with Bar Style Activation

The standard two-part line position allows for better cable location when making lifts at a high boom angle, such as loading into the truck bed. It keeps the wire rope further from the boom and prevents rubbing.

The new Flip Sheave low profile position, designed for the single-part line configuration, is beneficial when lifting something in a tight location, such as inside a cab or under a hood. The low profile configuration creates more room to lift the load and position loads in limited height areas.

Available on telescopic crane models 7621 and up.



Standard Position



Low Profile Position



Available Cranes

Model	Crane Rating	Boom Length*	Max Reach*	Lifting Capacities	Power Supply
4421	16,000 ft-lbs (2.23 ton-m)	11' (3.35m)	21' (6.40 m)	4,000 lbs @ 4' (1,814 kg @ 1.22 m) 760 lbs @ 21' (345 kg @ 6.40 m)	PTO 3.0 gpm @ 2600 psi 12 volt power E/H (Optional)
5521	29,500 ft-lbs (4.1 ton-m)	11' (3.35 m)	21' (6.40 m)	5,000 lbs @ 5' 10" (2,268 kg @ 1.78 m) 1,400 lbs @ 21' (635 kg @ 6.40 m)	PTO 8 gpm @ 2500 psi
6521	35,000 ft-lbs (5.3 ton-m)	11' (3.35 m)	21' (6.40 m)	6,000 lbs @ 5' 10" (2,722 kg @ 1.78 m) 1,680 lbs @ 21' (762 kg @ 6.40 m)	PTO 8 gpm @ 3000 psi
7621	44,840 ft-lbs* (6.20 ton-m)	11' (3.35 m)	21' (6.40 m)	7,500 lbs @ 5'10" (3,402 kg @ 1.78 m)* 2,135 lbs @ 2 1' (965 kg @ 6.40 m)*	PTO 8 gpm @ 3000 psi
7630	44,840 ft-lbs* (6.20 ton-m)	13' 4" (4.06 m)	30' (9.14 m)	7,500 lbs @ 5' 10" (3,402 kg @ 1.78 m)* 1,490 lbs @ 30' (675 kg @ 9.14 m)*	PTO 8 gpm @ 3000 psi
9621	70,800 ft-lbs* (9.79 ton-m)	11' (3.35 m)	21' (6.40 m)	9,000 lbs @ 7' 10" (4,082 kg @ 2.39 m)* 3,365 lbs @ 21' (1,525 kg @ 6.40 m)*	PTO 8 gpm @ 2500 psi
9630	70,800 ft-lbs* (9.79 ton-m)	13' 4" (4.06 m)	30' (9.14 m)	9,000 lbs @ 7' 10" (4,082 kg @ 2.39 m)* 2,360 lbs @ 30' (1,070 kg @ 9.14 m)*	PTO 8 gpm @ 2500 psi
10621	70,800 ft-lbs* (9.79 ton-m)	11' (3.35 m)	21' (6.40 m)	10,000 lbs @ 7' (4,536 kg @ 2.13 m)* 3,365 lbs @ 21' (1,525 kg @ 6.40 m)*	PTO 8 gpm @ 3000 psi
10630	70,800 ft-lbs* (9.79 ton-m)	13' 4" (4.06 m)	30' (9.14 m)	10,000 lbs @ 7' (4,536 kg @ 2.13 m)* 2,360 lbs @ 30' (1,070 kg @ 9.14 m)*	PTO 8 gpm @ 3000 psi
12621	77,800 ft-lbs* (10.76 ton-m)	11' (3.35 m)	21' (6.40 m)	12,000 lbs @ 6.5' (5,443 kg @ 1.96 m)* 3,705 lbs @ 21' (1,680 kg @ 6.40 m)*	PTO 8 gpm @ 3000 psi
12630	77,800 ft-lbs* (10.76 ton-m)	13' 4" (4.06 m)	30' (9.14 m)	12,000 lbs @ 6.5' (5,443 kg @ 1.96 m)* 2,590 lbs @ 30' (1,175 kg @ 9.14 m)*	PTO 8 gpm @ 3000 psi
14530	82,600 ft-lbs* (11.42 ton-m)	13' (9.96 m)	30' (9.14 m)	14,000 lbs @ 5' (6,350 kg @ 1.52 m)* 2,750 lbs @ 30' (1,247 kg @ 9.14 m)	PTO 12 gpm @ 2600 psi

* With Stellar® CDTplus™ boost mode. See technical specification brochure or manual for each specific model.

Stellar Exclusive Service Bodies



Model	GVWR	Crane Models	Cab to Axle	Length	Height	Comp. Depth	Floor Width
TMAX™ 1 Bodies	16,000 – 19,500 (19.5 tire size)	4421, 5521, 6521, 7621, 7630	60" - 84" (152-213 cm)	109" - 133" (276-338 cm)	44" & 60" (112 & 152 cm)	22" (56 cm)	50" (127 cm)
TMAX™ 2 Bodies	19,500 and up (22.5 tire size)	7621, 7630, 9621, 9630, 10621, 10630, 12621, 12630	84" - 120" (213-305 cm)	133" - 169" (338-429 cm)	60" (152 cm)	22" (56 cm)	50" (127 cm)
TMAX™ 3 Bodies	33,000 and up	14530	120" (304.8 cm)	169" (429 cm)	60" (152 cm)	22" (56 cm)	50" - 52" (127-132 cm)
TMAX™ 3T Bodies	46,000 and up	14530	138" (Cab to Trunnion) (350.5 cm)	210" (533 cm)	60" (152 cm)	22" (56 cm)	50" - 52" (127-132 cm)

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*TPL 236-994 shown

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TPL 236-983

- Two (2) 50-gallon new oil tanks
- One (1) 60-gallon used oil tank
- 42"W x 36"D x 60"H



TPL 236-983-G

- Two (2) 50-gallon new oil tanks
- One (1) 60-gallon used oil tank
- 42"W x 55"D x 60"H
- 120 lb grease system



TPL 236-984

- Includes the above + 48"D

TPL 236-993

- Three (3) 30-gallon new oil tanks
- One (1) 60-gallon used oil tank
- 42"W x 36"D x 60"H



TPL 236-994

- Three (3) 30-gallon new oil tanks
- One (1) 60-gallon used oil tank
- 120 lb grease system
- 42"W x 48"D x 60"H



TPL 236ERC

- Three (3) 50-gallon new oil tanks
- One (1) 50-gallon antifreeze tank
- 120 lb grease tank
- One (1) 100-gallon waste oil tank



TPL 236ERC-AC

- Includes the above + 14 hp gasoline compressor and reels



BEAUFORT COUNTY COUNCIL AGENDA ITEM SUMMARY

ITEM TITLE:
Recommendation to Award RFQ #042721E, Indoor Pool Renovations Architecture and Engineering Services
MEETING NAME AND DATE:
Public Facilities Committee – September 20, 2021
PRESENTER INFORMATION:
Jared Fralix, Assistant County Administrator – Engineering (5 minutes)
ITEM BACKGROUND:
2000: MOA with BCSD whereby County maintains/operates pools for 25 years (2025). 2018: Council approved \$540K to improve air quality in all three pools (then assessed to be HVAC failures). 2020: BDB Study indicated actual problem is structural failure/leakage of building. Estimate: \$3.4M
PROJECT / ITEM NARRATIVE:
A request for qualifications was published to assess enclosures that would last longer than the apparent 20-year-life cycle. 3 areas of evaluation include existing conditions, renovations/modifications to same, and evaluate other designs. Two firms responded to the solicitation and the evaluation committee selected RMF Engineering (Charleston, SC) for recommendation.
FISCAL IMPACT:
RMF Contract: Cost estimated at \$75,420 over a 112-calendar day period to study/report on the 3 areas of evaluation. With \$1,000 for reimbursable expenses and 10% contingency, the total project cost is \$82,500 to be funded from 2019A GO Bond – Other Improvements PAR Pools – 40110011-54436 with a balance of \$422,850.
STAFF RECOMMENDATIONS TO COUNCIL:
Approve the Committee’s recommendation to award Contract to RMF for RFQ#042721E, Indoor Pool Renovations Architecture and Engineering Services.
OPTIONS FOR COUNCIL MOTION:
Motion to approve/deny award of contract for Indoor Pool Renovations Architecture and Engineering Services to RMF Engineering. <i>Next Step: Contract is less than \$100,000, therefore; does not require County Council approval. Staff to proceed with executing contract.</i>

Beaufort County Indoor Pool Resurfacing Architecture and Engineering Services					
RFQ 042721E					
Summary Score Sheet					
Evaluators	Name of Company	Name of Company			
	<u>Beaufort Design</u>	<u>RMF Engineering</u>			
	<u>Build</u>				
C. Atkinson	92	83			
S. Loper	91	95			
M. Watts	86	89			
M. Roseneau	89	93			
W. Campbell	90	80			
TOTALS:	358	360			
1. RMF Engineering	360				
2. Beaufort Design Build	358				



August 17, 2021

Beaufort County
2266 Boundary Street
Beaufort, SC 29902

Attention: Mr. J. Wes Campbell
Beaufort County Construction Manager

Reference: Beaufort County Indoor Pools Study
RFQ NO.042721E
Engineering Services Proposal

Dear Wes,

RMF Engineering, Inc. (RMF) is pleased to submit this proposal to perform the mechanical, electrical and plumbing (MEP) engineering services for the above referenced project. Subcontractors to RMF will be ADC Engineering for structural engineering and FWA Group for architectural services. Find the subcontractors proposals attached.

PROJECT DESCRIPTION

The design team has been hired to evaluate the options to repair, modify or replace three existing indoor pool facilities.

1 Blue Dolphin Drive, Beaufort
35 State Rd S-7-266, Beaufort
55 Pritchard Street, Bluffton

The project is a two-phase project. The first phase is the study to evaluate and select the options for each facility; the second phase is to provide the design documents for the selected options.

The deliverable for this phase of the project (Phase 1) will be a written report including any photo documentation, plans, renderings and associated opinion of costs for each of the scope items described below.

Scope Item 1 – Existing Building Evaluations

The design team will perform Building Condition Assessments for the three indoor pool buildings and support spaces. The assessments will cover the structural, architectural, envelope, mechanical and electrical equipment, and systems. The assessments will include a review of the existing program spaces, functions and code compliance as they relate to the current occupancy and usage per the documents received at the July 8, 2021 Owner Review meeting. We will generally follow ASTM E 2018-08 guidelines for assessments as they apply to the scope of work above. RMF will perform HVAC load calculations on the existing natatoriums to determine if the existing HVAC is sized appropriately for its current service.

The assessment team will not perform any destructive investigation of any type. Our assessment does not include hazardous materials investigation, survey or sampling. The design team will not start or operate any equipment in the facility. The design team will not evaluate the pool heating, cooling or filtration equipment.

Scope Item 2a – Existing Building Renovations

The design team will provide an itemized list of suggested upgrades to the buildings and associated costs. These upgrades will be the upgrades required to repair or replace failing equipment or systems or to bring the building up to code compliance. Due to the difference of deterioration at each building it is understood that each building will have its own list of upgrades and all upgrades may not be suggested for each building.

Scope Item 2b – Existing Building Modifications

The design team will provide a description and opinion of costs for up to three (3) options for providing removal/retractable enclosures for the pool buildings which may include decoupling the support spaces from the pools.

Scope Item 3 – New Pools

The design team will provide a description and opinion of costs for two (2) new pools incorporating owner programming and occupancy usage based on the documents received at the July 8, 2021 Owner Review meeting.

No work for Phase 2 will be completed under this contract. Once Phase 1 is complete a fee can be negotiated for developing the bidding/construction documents for Phase 2 at the owner's request.

It is understood that Beaufort County has the facility as-builts in PDF format. For this project the design team will use the as-builts to develop Revit files for our use. The design team will modify the Revit file with any conditions in the field that do not match the as-builts.

COST ESTIMATING

Schematic level opinion of construction cost will be provided for Scope Items 2a, 2b and 3.

PROJECT MEETINGS

RMF will participate in three (3) owner review meetings in Beaufort, South Carolina with the owner and the design team during the evaluation period. The project will not progress until the review meeting has occurred.

RMF will generate and distribute formal meeting minute documentation from each meeting.

DELIVERABLES

The final deliverable for this project will be a PDF report describing the existing conditions, proposed modifications, opinion of constructions costs and renderings

There will be no specifications or construction design documents generated for this project.

PROPOSED SCHEDULE

Project Phase	Days After NTP
Existing Building Field Surveys	14
25% Phase 1 Report (No costs, No renderings)	35
Owner Review Meeting	42
75% Phase 1 Report	63
Owner Review Meeting	70
95% Phase 1 Report (Renderings as Requested)	91
Owner Review Meeting	98
Final Phase 1 Report	112

This schedule is preliminary and will be finalized with the owner once the project is approved to move forward. The proposed schedule does not include delays for extended review periods, etc.

ENGINEERING SERVICES FEE

Fixed engineering costs shall be as follows and are good for 60 calendar days from the date of this proposal.

Note: Invoices will be sent each month based on percent of work completed. Payment is due within forty-five (45) days of invoices. All amounts not paid within this time frame are subject to interest payment of 1-1/2 percent each month on the unpaid balance. RMF cannot work without a signed agreement on the fee and an executed contract.

Project Phase	Fee
Field Surveys	\$ 2,597.00
Phase 1 Report – 25%	6,491.00
Phase 1 Report – 75%	6,491.00
Phase 1 Report – 95%	6,491.00
Phase 1 Report Final	3,895.00
Sub-Total	\$ 25,965.00
Supplemental Services	
ADC Structural	21,600.00
FWA Group	21,895.00
Convert As-Builts to Revit	3,960.00
Rendering Each – \$1,700.00	TBD
Sub-Total – Supplemental Services	\$ 47,455.00
Expenses	
Reimbursable	1,000.00
Sub-Total – Expenses	\$ 1,000.00
Project Total	\$ 74,420.00

REIMBURSABLE EXPENSES

Reimbursable expenses are in addition to compensation for Basic, Supplemental and Additional Services and include expenses incurred directly related to the project, including travel, reproduction, meals, and parking. Reimbursable expenses will be billed at one hundred ten (110%/1.1) percent of direct cost. We anticipate that our reimbursable cost for expenses will be approximately \$1,000.00. If reimbursables are exceeded, RMF will notify the client prior to any additional expenses being incurred.

HOURLY RATES

Other requested Supplemental Services can be provided on a time and material basis if requested based on the following schedule of hourly rates:

Principal	\$220.00	Design Engineer	\$105.00
Associate	\$190.00	Designer	\$100.00
Project Manager	\$165.00	CAD Technician	\$75.00
Project Engineer	\$125.00	Technical Support	\$75.00

OPTIONAL SUPPLEMENTAL SERVICES (NOT INCLUDED IN BASIC SERVICES FEE ABOVE)

Scope Increase: All fees are based upon the total project construction cost, proposed gross square feet (GSF) of building area and the percentage of MEP/FP building cost listed. If the scope of the building increases by more than 10% of the proposed building costs, GSF or MEP/FP construction cost listed, then additional fees will be required to account for the increased MEP scope.

LCCA Analysis: Provide life cycle cost analysis for mechanical or architectural systems to determine the energy savings associated with mechanical or architectural alternatives.

Advanced Planning: Perform Advanced planning/Pre-Design services to evaluate MEP strategies for multiple building options or future buildings/additions. This may include economic feasibility.

Site Utility Systems: Design for site underground thermal utility distribution for chilled water, hot water, steam and condensate, as well as medium voltage electrical, security, and telecommunications.

Commissioning: Perform Cx services including design review, preparation of pre-functional and functional equipment test procedures, witnessing of functional testing, and Cx reports.

Design Changes: Design changes made after substantial completion of the final submission may require additional engineering services regardless of whether the change was initiated by the owner, architect, or architect’s sub-consultant.

Advanced Energy Modeling: Provide detailed comparative analysis by applying sophisticated building energy use simulation techniques to review various designs and how those changes affect the overall energy usage of the facility. This effort is for modeling beyond that included in the Sustainable Certification Design Services indicated above.

Electrical Engineering Studies: Perform a fault current, coordination, and arc flash hazard analysis of the facility.

In the absence of any other executed contract this letter shall incorporate the general conditions of the AIA B105–2017, *Standard Form of Agreement Between Owner and Architect*, except as noted otherwise by this proposal.

We appreciate the opportunity to work with you on this project. Please contact me to discuss any questions, concerns, or scoping issues.

Sincerely,
RMF ENGINEERING, INC.



Don Zimmerman III, PE, CEM
Associate

APPROVED: _____
DATE: _____

DRAFT

August 4, 2021

Via Email
Page 1 of 3

Don Zimmerman
RMF Engineering
194 Seven Farms Road, Suite G
Charleston, South Carolina 29492

Subject: **Proposal for Structural Engineering Services**
Beaufort County Pool Renovations
Beaufort County, SC
ADC Project No. 21274

Dear Don:

ADC Engineering, Inc. appreciates the opportunity to submit the following proposal for your consideration. Our understanding of the scope of services and proposed fee are as follows:

SCOPE:

Our proposed scope of services includes the basic services detailed below for (3) three indoor pool buildings and support spaces located at public schools in Beaufort County, South Carolina (Battery Creek, Beaufort, and Bluffton). The basic services include the following:

Phase 1

Phase 1 of the project will be to perform visual structural assessments of the three referenced existing pools and provide written reports with findings and recommendations to the Client. ADC will perform an Existing Building Condition Assessment (EBCA) for each of the three indoor pool buildings and support spaces referenced above. The assessments will cover a visual assessment of the existing structural systems, a review of the existing program spaces, functions and code compliance as they relate to the current occupancy and usage per the documents received at the July 8, 2021 Owner Review meeting. ADC will generally follow ASTM E 2018-08 guidelines for assessments as they apply. ADC will generate a written report for each building outlining our findings and recommendations. This Phase will include up to 3 report submissions and Owner review meetings.

Phase 2

Phase 2 of the project will be to provide structural narratives, opinions of costs and schematic level designs for options to renovate or modify the existing buildings based on the EBCA reporting from Phase 1.

Scope Item 2a - Existing Building Renovations

The design team will provide an itemized list of suggested upgrades to the buildings and associated costs. These upgrades will be the upgrades required to repair or replace failing equipment or systems or to bring the building up to code compliance. Due to the difference of deterioration at each

building it is understood that each building will have its own list of upgrades and all upgrades may not be suggested for each building. Deliverables will include a narrative and opinion of costs for each building.

Scope Item 2b – Existing Building Modifications

The design team will provide a description and opinion of costs for up to three (3) options for providing removal/retractable enclosures for the pool buildings which may include decoupling the support spaces from the pools. The deliverable will include a narrative, opinion of costs, schematic level plans and renderings to be coordinated with the Design Team.

Phase 3

Phase 3 of the project will be to provide a structural systems description and opinion of costs for the design of two (2) new pools incorporating owner programming and occupancy usage based on the documents received at the July 8, 2021, Owner Review meeting. The deliverable will include a narrative, opinion of costs, schematic level plans and renderings to be coordinated with the Design Team.

LIMITATIONS:

The basic scope of services is limited to that outlined above for Phases 1-3 and specifically does **not** include the following:

- Destructive techniques will not be utilized. All assessments will be limited to visually accessible elements only. No disassembly or removal of components or component elements will be performed.
- Design Development Level Documents and Specifications
- Construction Level Documents and Specifications
- Construction Administration Services
- Value engineering services associated with scope or budget reduction
- Testing Services

FEES:

The proposed fee for this scope of work is outlined below plus expenses. Expenses may include mileage, reproduction, photography, and/or delivery with a ten percent overhead fee affixed. Below is a detailed fee summary of our services and deliverables:

STRUCTURAL ENGINEERING SERVICES

Phase 1 – EBCAs and Reporting	\$	9,000.00
Phase 2a – Existing Building Renovations	\$	5,400.00
Phase 2b – Existing Building Modifications	\$	3,600.00
<u>Phase 3 – New Pool Designs</u>	<u>\$</u>	<u>3,600.00</u>
STRUCTURAL ENGINEERING TOTAL	\$	21,600.00

Each individual milestone stage fee will be billed immediately upon completion of the stage. ADC will not proceed to the next phase without Owner, review, comments, and direction to do so.

Services other than those outlined in the Basic Services Scope will be provided as requested as an additional service. Unless agreed upon otherwise, additional services will be billed as hourly services in accordance with ADC Engineering’s hourly rate schedule plus 1.1 times actual expenses.

In the absence of any other executed contract this letter shall incorporate the general conditions of the architect – engineer AIA standard contract C401, except as noted otherwise by this proposal.

If acceptable, please sign where indicated below, keep one copy and return one copy to our office. Your signature will serve as our *Notice to Proceed*. For all purchase orders, billing/invoices and payments, please make sure to always reference the ADC project number.

Thank you for considering ADC Engineering, Inc. If you have any questions or comments, please do not hesitate to call.

Sincerely,
ADC Engineering, Inc.



Jeremy Williams, P.E.

ACCEPTED BY: _____
RMF Engineering **Date**

This Proposal may be accepted by executing where indicated herein and returning the executed Proposal within ninety (90) days of the date of this Proposal. After ninety (90) days, this Proposal and its contents become invalid and will be voided.



August 9, 2021

Mr. Don Zimmerman III, PE, CEM
 Project Manager
 RMF Engineering, Inc.
 194 Seven Farms Dr., Suite G
 Charleston, SC 29492

RE: Proposal to Provide Architectural Design Support for the Beaufort County Indoor Pools Study – RFQ NO. 042721E

Dear Don,

Based on our initial discussions with Beaufort County representatives, the FWA Group is delighted to forward this proposal to you regarding services to review and evaluate Beaufort County's pool needs based on the referenced project.

General Scope of Work

As discussed, FWA in coordination with RMF Engineering and ADC Engineering (your selected structural/civil engineering consultants) will review the existing conditions of the three noted pool facilities in consideration of the County's request to "evaluate the options to either repair, modify or replace the three existing indoor pool facilities".

Work to be Done

1. FWA will use the County provided as-built drawings to create new base Revit models for each of the three pool facility buildings. This base model will only include architectural and exposed structural elements. It will not include mechanical, electrical, or plumbing elements.
2. As outlined and defined in RMF's letter to Beaufort County, FWA will provide architectural support to address our portion of Scope Item #1 as typically considered per ASTM E 2018-08 guidelines. With that information FWA will then address Scope Items #2a, #2b and #3.
 - a. For Scope Item #1 FWA will visit each of the three facilities as required with the Revit model created from the existing drawings, site survey documents and other available material provided by the County to RMF to review the existing conditions of the facilities as they relate to the program spaces, function, and code compliance.
 - i. FWA will review the general architectural condition of the building interior to include ADA/ANSI accessibility.
 - ii. Review the condition of the building exterior roof, walls, doors, and windows.
 - iii. FWA will document our findings with comments to the existing drawings and photographs and coordinate the findings with RMF.
 - b. For Scope Item #2a FWA will review our findings per Scope Item #1 and develop suggestions to correct, repair or replace any noted deficient elements or components.
 - i. FWA will document our suggestions and coordinate them with RMF.
 - ii. Based on the finalized list of suggestions FWA will assist RMF with assigning associated costs to address the suggestions.
 - c. For Scope Item #2b FWA will review our findings per Scope Item #1 and develop up to three (3) descriptive options to modify the pool structure.
 - i. The options will be developed in coordination with RMF.
 - ii. Based on the accepted described modification options FWA will assist RMF with the development of opinions of cost for each option.

Mr. Don Zimmerman III, PE, CEM - Project Manager
RMF Engineering, Inc.
August 9, 2021
Page 2 of 3

- d. For Scope Item #3 FWA will work with RMF and the County Representative(s) to develop an initial building program leading to the creation of basic concepts for two (2) new pool facilities.
 - i. Based on the program concepts FWA will assist RMF with the development of opinions of cost for the two (2) new pool facilities.
- 3. FWA will attend a total of three (3) meetings to review the progress of the work with RMF and the County Representative(s).
- 4. FWA will attend one (1) meeting to review the program needs for the two (2) new pool facilities with RMF and the County Representative(s).
- 5. FWA will create a limited number of building renderings based on a not to exceed sum per rendering requested by RMF / County Representative.

Work not Included

The work not included in this proposal, but which could be added if so desired as an Additional Service under our review as the Project progresses, includes:

- 1. The development of schematic documents, design development documents, construction documents, bidding or construction contract administration phase services.
- 2. Submission to or appearance before any associated design review boards or related committees.
- 3. All efforts associated with cultural or archaeological studies, remediation or design.
- 4. All efforts associated with environmental studies, remediation or design.

Information to be Furnished by RMF Engineering / Beaufort County

To complete the review and documentation efforts for this project it would be helpful if the following can be provided:

- 1. Current as-built building and site survey information of each pool facility total property area and utility services.
- 2. Provide access to County staff as needed to discuss desired upgrades/improvements.

Deliverables

FWA will furnish the Client with the scope items as noted under "Work to Be Done" above.

Compensation

Based on the scope noted we propose to provide the work as described under "Work to be Done" as follows:

- Fee to convert the County provided as-built existing floor plan drawings for the three pool facilities to Revit files **\$3,960.00.**
- Fee to provide the four basic scope items noted in "Work to be Done" above plus associated reimbursable expenses for an amount not to exceed **\$21,895.00.**
- Fee to create a scope item building rendering will be based on a not to exceed sum per each rendering provided of **\$1,700.00.**

If any services not noted in "Work To Be Done" above are required they will be addressed as additional services. Additional services will be agreed to in writing prior to the performance of services based on the following hourly rates.

FWA hourly rates will be invoiced as below:

- Principal \$180.00/Hour
- Project Manager \$135.00/Hour
- Project Architect \$120.00/Hour

Hilton Head Island Office
10 Palmetto Business Park Road
PO Box 5910 (29938)
Hilton Head Island, SC 29928
(843) 785-2199
(843) 785-6801 fax
WWW.FWAGROUP.COM

Mr. Don Zimmerman III, PE, CEM - Project Manager
RMF Engineering, Inc.
August 9, 2021
Page 3 of 3

- Project Designer \$100.00/Hour
- Clerical \$ 65.00/Hour

Invoices will be monthly, payable within 30 days. Interest will be applied as is allowed at 12 percent per annum to past due account 45 days out. Failure to make payment within 60 days will result in suspension of services under this agreement until full payment is received. Additional services required beyond the scope defined will also be invoiced at the hourly rates above upon your approval or otherwise agreed.

Fees such as filing, application, license, impact, connection, etc., if required, are the responsibility of the Client/Owner.

Schedule

The FWA Group is positioned to start the work immediately. We have the manpower and resources to complete the job in a timely and efficient manner to meet your schedule.

Please review this proposal and indicate your acceptance by signing in the space indicated below and returning one copy for our records. If so desired, we can convert and attach this proposal to a standard AIA document.

Please call me if you have any questions or concerns.

FWA Group

Barry H. Taylor, AIA, LEED®AP
Principal
BHT/jc

**Authorization by RMF Engineering Inc.
to provide the above services:**

Date: _____

cc: File

H:\ADMIN\MARKETING\FEE PROPOSAL LETTERS\RMF ENGINEERING\PROPOSAL.BC.3 POOLS.RMF.210809.DOCX

Hilton Head Island Office
10 Palmetto Business Park Road
PO Box 5910 (29938)
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WWW.FWAGROUP.COM

· CHARLOTTE, NORTH CAROLINA · HILTON HEAD ISLAND, SOUTH CAROLINA



BEAUFORT COUNTY COUNCIL AGENDA ITEM SUMMARY

ITEM TITLE:
Discussion on financing for the Hilton Head Island Airport Expansion
MEETING NAME AND DATE:
Public Facilities Meeting 09/20/2021
PRESENTER INFORMATION:
Hayes Williams, Interim Chief Financial Officer 15 Minutes
ITEM BACKGROUND:
There is funding needed for the Hilton Head Island Airport Expansion.
PROJECT / ITEM NARRATIVE:
The total expansion project is expected to cost approximately \$52M. The project has established funding sources of \$22M leaving a need of approximately \$30M. The proposal would be to fund \$20M to \$30M with a revenue bond from the Local Hospitality Tax fund.
FISCAL IMPACT:
<i>The Hilton Head Island Airport brings approximately \$405M in revenues to Beaufort SC. Funding this expansion with Local Hospitality Tax Funds would allow for progress of the expansion. It would be a millage neutral source of funding.</i>
STAFF RECOMMENDATIONS TO COUNCIL:
Staff recommends that Council allow them to proceed to finance the Hilton Head Island Airport in an amount not to exceed \$30m with Local Hospitality Tax Funds.
OPTIONS FOR COUNCIL MOTION:
<i>Motion to approve staff to proceed to Council with the revenue bond.</i>



HHI Airport Terminal Expansion Financial Options

PUBLIC FACILITIES
COMMITTEE

SEPTEMBER 20, 2021



Established Funding

The Hilton Head Island Terminal Expansion project includes 4 gates, 3 jet bridges and 1 walkout. The estimated cost of the project is **\$52 million**. Below are established funding sources:

\$20 million FAA Grants

\$1 million SC Aeronautics Commission

\$1 million Airport Funded

With **\$22 million** established, how will Beaufort County fund the remaining cost?

Funding Solution

To keep this project moving in a timely manner, Administration is pursuing local funding options.

Potential Sources

Additional Federal Grants
Additional State Grants
Local Grants



Potential Local Funding Options

Revenue Bond issuance by pledging local accommodations and hospitality taxes. In order to obtain the best interest rates and the highest credit rating, both accommodations and hospitality must be pledged. The debt service will come from *hospitality tax only*.

Annual Revenue Collected

	FY 2018	FY 2019	FY 2020	FY 2021
Accommodation Tax	\$1.25M	\$1.24M	\$1.23M	\$1.7M
Hospitality Tax	\$2.30M	\$2.34M	\$2.30M	\$2.53M
Total Revenue	\$3.55M	\$3.58M	\$3.53M	\$4.23M

Scenarios for Revenue Bond

	SCENARIO 1	SCENARIO 2	SCENARIO 3
Bond Amount	\$20M	\$30M	\$34M
Average Debt Service	\$1.35M	\$2.0M	\$2.3M
Average Local Hospitality Tax over the past 4 years	\$2.36M	\$2.36M	\$2.36M
Amount left in Local Hospitality Tax to award	\$1.01M	\$360K	\$60K

Estimated yearly debt services of \$2.3M in order to issue \$34M in Revenue Bonds

PROS

The revenues from hospitality tax meet one of the exclusive purposes designated by ordinance

Zero millage increase for the taxpayers of Beaufort County

General Obligation Bond capacity will be maintained for other County projects

Airport acts as a tourist conduit of Beaufort County and will assist in increases of tax revenue for future expenditures

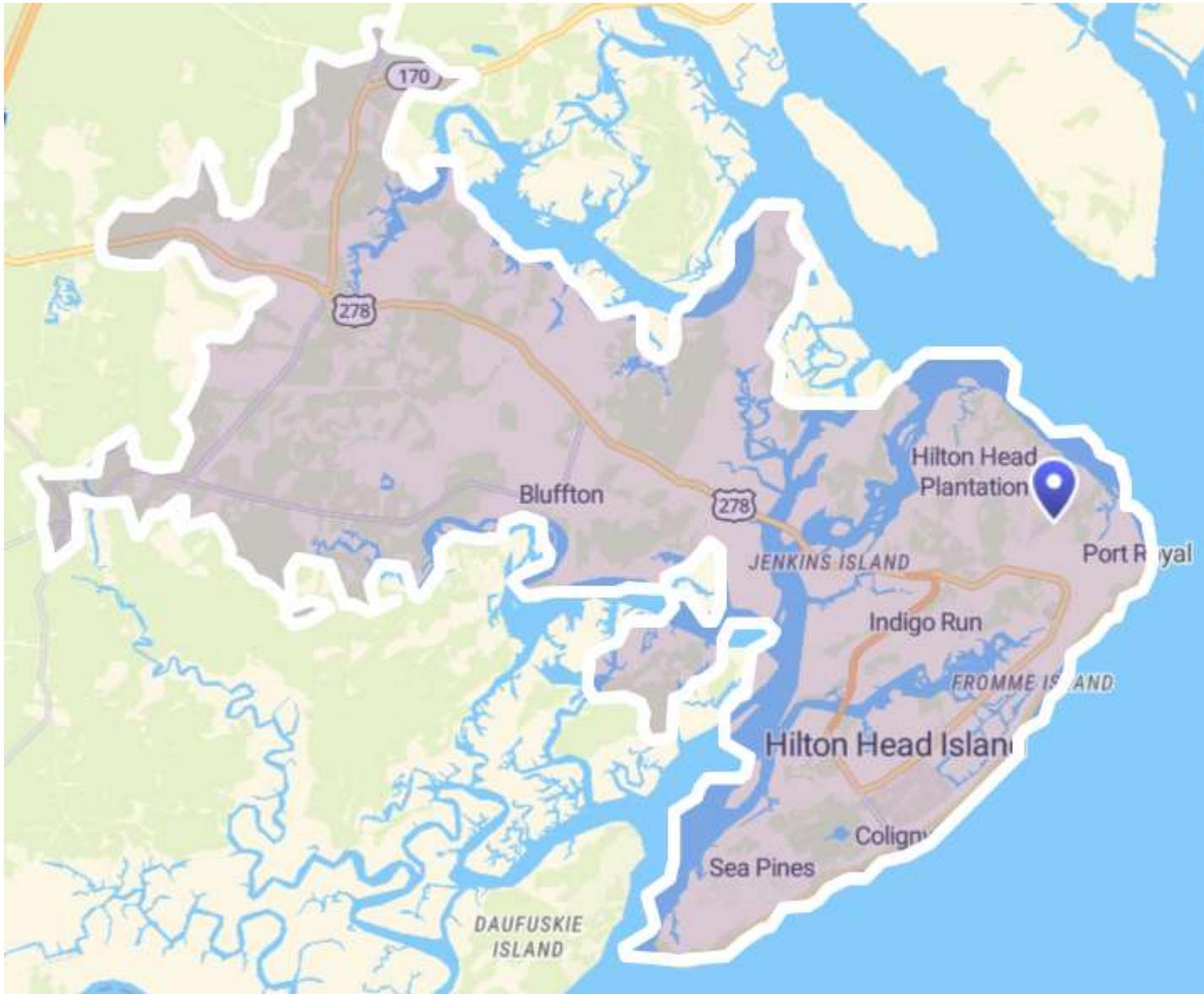
CONS

\$46M payback over 20 years unless paid in less term

Local agencies will only be able to apply for local accommodations tax and the remaining unspent hospitality tax

Tourist Destinations

- Tanger Outlets
- Victoria Bluff Heritage Preserve
- Heyward House Museum
- Old Town Bluffton
- The Church of the Cross
- May River Theatre
- New River Linear Trail
- Pinckney Island National Wildlife Refuge
- Garvey House
- Hilton Head National Golf Club





Recommendation

To pursue revenue bond funding of \$20M, not to exceed, \$30M

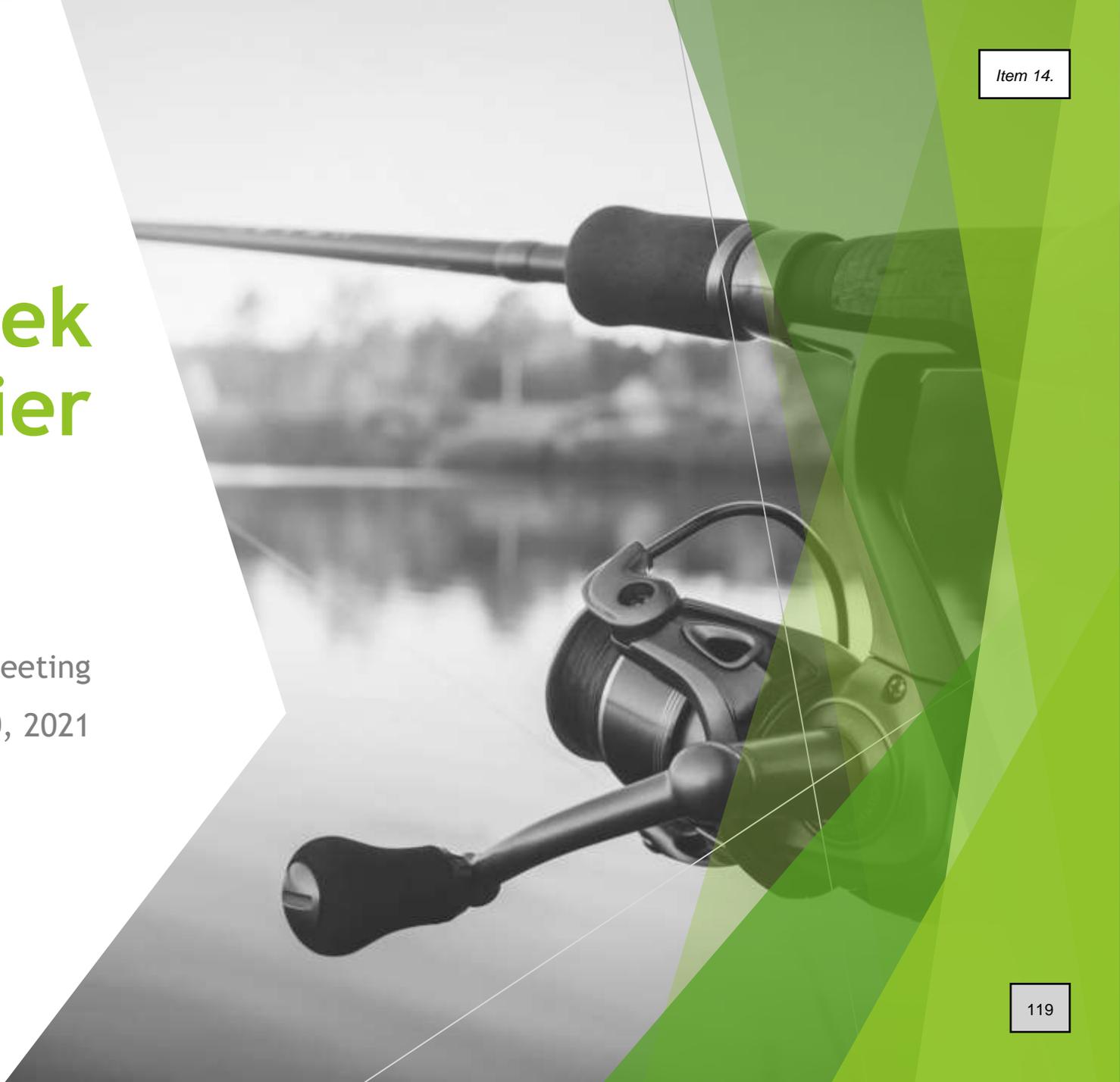


BEAUFORT COUNTY COUNCIL AGENDA ITEM SUMMARY

ITEM TITLE:
Wimbee Creek Fishing Pier – Condition Assessment
MEETING NAME AND DATE:
Public Facilities Committee – September 20, 2021
PRESENTER INFORMATION:
Andrea Atherton, Director – Transportation Engineering (5 minutes)
ITEM BACKGROUND:
McSweeney Engineering performed routine inspections of the pier deck and structure in 2018 and 2019. As requested by the County in 2020 they provided an analysis of six (6) repair and demolition alternatives along with probable costs.
PROJECT / ITEM NARRATIVE:
Alternatives A through F and the cost for a new timber pier are presented for consideration. Alternates range from “do nothing” to various rehabilitation scenarios and a complete demolition alternative with an option for constructing a new timber pier.
FISCAL IMPACT:
Range of construction costs \$650,000 to \$1,800,000. Engineering/permitting 10% +/- construction costs.
STAFF RECOMMENDATIONS TO COUNCIL:
Committee to select preferred alternative and make recommendation for staff to proceed with A/H tax grant application to fund Engineering/Permitting costs.
OPTIONS FOR COUNCIL MOTION:
Motion to either accept/deny proceeding with A/H tax grant application for preferred alternative.

Wimbee Creek Fishing Pier

Public Facilities Committee Meeting
September 20, 2021



Background

- ▶ Located at the end of Wimbee Landing Road.
- ▶ Approximately 314 ft. long and 11 ft. wide.
- ▶ Former railroad trestle.
- ▶ Routine inspection conducted in 2018 & 2019 by McSweeney.
- ▶ Severe deterioration and fire damage to key load bearing elements
 - ▶ For safety, last 25' has been fenced to restrict public access.
- ▶ McSweeney Engineers contracted to evaluate repair and demolition alternatives and opinion of probable costs for each scenario.

Inspection November 2019

- ▶ Overall Rating - *Fair to Serious*
 - ▶ Deck
 - ▶ *Fair* - cracking in concrete surfaces
 - ▶ Superstructure
 - ▶ *Poor* - displacement of bearing pads
 - ▶ Substructure
 - ▶ *Poor to Serious* - fire damage and significant deterioration of timber structural elements.
- ▶ Structure is near the end of its service life due to advanced deterioration of key load bearing elements

Alternatives - February 2020 Report

Prepared by: McSweeney Engineers

- ▶ A - Do Nothing. Significant safety Liability
- ▶ B - Full rehabilitation. \$1.5M to 1.8M. SL 25 years
- ▶ C - Partial rehabilitation. \$1.1M to 1.3M SL 25 years
- ▶ D - Partial rehab/Alum deck \$1.1M to 1.3M SL 25 years
- ▶ E - Partial rehab/timber deck \$1.0M to 1.2M SL 25 years
- ▶ F- Complete demo/removal \$650K to 800K

- ▶ New Timber Pier \$350k to \$400K SL 50 years



Wimbee Creek Fishing Pier

Alternatives and Cost Analysis

February 2020



McSweeney

McSweeney Engineers

495C Meeting St Charleston, SC

29403

(843) 974-5621

www.mcsweeneyengineers.com



TABLE OF CONTENTS

1.0 INTRODUCTION..... 1

 1.1 Project Site 1

 1.2 Project Scope 1

2.0 Structure Conditions and Evaluation..... 2

 2.1 2019 Structural Conditions and Evaluation 2

 2.2 2019 Recommendations..... 2

3.0 Alternatives Analysis..... 2

 3.1 Alternative A – Do Nothing 3

 3.2 Alternative B – Full Rehabilitation 3

 3.3 Alternative C – Save 5/Demo 3 4

 3.4 Alternative D – Rehab Substructure Install New Aluminum Superstructure 4

 3.5 Alternative E – Rehab Substructure Install New Timber Superstructure 5

 3.6 Alternative F – Demolish Existing..... 5

 3.7 New Fishing Pier 6

4.0 CONCLUSION AND RECOMMENDATIONS 6

5.0 Alternatives Analysis Matrix..... 7

1.0 INTRODUCTION

1.1 Project Site

The Wimbee Creek Fishing Pier is located at the end of Wimbee Landing Road near Dale in Beaufort County, South Carolina. The pier measures approximately 314 ft long by 11 ft wide. The structure is a former railroad trestle of unknown age that has been repurposed for use as a public fishing pier. As such, a new concrete deck and handrail assemblies were placed on the original structure. The figure below provides an aerial view of the Wimbee Creek Fishing Pier.



Figure 1. Aerial View of the Wimbee Creek Fishing Pier

McSweeney Engineers conducted routine comprehensive inspection of the structure in 2018 and 2019. The results of that inspection indicated severe deterioration and fire damage to key load bearing elements.

1.2 Project Scope

Following submittal of the routine structural inspection reports, McSweeney Engineers, LLC was contacted by Beaufort County Engineering in order to evaluate possible demolition and repair alternatives for the site and provide opinion of probable costs associated with each scenario .

The scope of this study includes:

- Review of the previous inspection reports
- Evaluate potential repair scenarios
- Evaluate full and partial demolition scenarios

- Provide an opinion of probable cost

The purpose of this study is to provide guidance to Beaufort County in determining the most suitable solution for the structure.

2.0 Structure Conditions and Evaluation

2.1 2019 Structural Conditions and Evaluation

The last routine inspection of the Wimbee Creek Fishing Pier was conducted on November, 7 2019. Readers are encouraged to read and review the previous inspection report in conjunction with this study; however, the most significant findings are summarized below.

At the time of the previous inspection, the structural condition of the Wimbee Creek Fishing Pier was rated from *Fair* to *Serious*. A brief recap of these ratings is presented below:

Deck

- Rated as *Fair* due to cracks located in concrete surfaces

Superstructure

- Rated as *Poor* due to the displacement of the bearing pads

Substructure

- Rated as *Poor* to *Serious* due to fire damage and significant deterioration of timber structural elements

2.2 2019 Recommendations

The 2019 inspection report noted that the condition of the structure had not changed appreciably since the 2018 inspection; however, the report also indicated that the structure was near the end of its service life due to advanced deterioration of key load bearing elements. With this understanding, the 2019 report provided a generalized list of potential repair strategies and also noted that the cost of any repairs should be weighed against the cost of wholesale replacement of the structure.

3.0 Alternatives Analysis

The alternatives discussed in the following sections do not cover every potential option for the structure. The alternatives listed herein present generalized approaches and costs to repair, replacement, and demolition of the structure. Budgetary cost information was obtained

from our in-house expertise in marine construction and through discussion with a local marine contractor. The intent is for this document to be used as a decision making tool for planning and budgeting purposes.

3.1 Alternative A – Do Nothing

The "Do Nothing" was considered during this study. In the short term this option would cost the County nothing; however, the current condition of the fishing pier is a significant safety liability. Therefore, this option is not warranted.

3.2 Alternative B – Full Rehabilitation

This alternative considers a full rehabilitation of the existing fishing pier and includes the following items:

- Installing 14 structural pile jackets at Bent 1
- Repair bearing pad at the Abutment (requires superstructure jacking or removal)
- Installing 84, 20 ft long protective wraps at Bents 2 through 7
- Rebuilding the pile caps at Bents 6 and 7 (requires superstructure jacking or removal)
- Install 3x6 marine treated cross bracing at each Bents 1 through 7
- Install 12, 25 ft long non-structural pile jackets at Bent 8.
- Install new galvanized hardware
- Install miscellaneous repairs:
 - vandal-proof luminaries
 - fence repairs
 - shoreline erosion repairs

In order to accomplish this scenario it likely that jacking, shoring, or temporary removal of the structure have to occur in order to in order to gain access to the pile caps. Although exact methods and costs are difficult to pinpoint they are likely to be complex and expensive. In addition, the work necessary to rehabilitate the substructure would involve the use of commercial divers. These two factors require the use of specialized personnel and equipment which will significantly increase project costs. It is likely that this alternative will cost between \$1.5M and \$1.8M.

The main disadvantage of this project, other than cost, is we estimate that these repairs will only add an additional 25 years of service life to the structure.

3.3 Alternative C – Save 5/Demo 3

Alternative C considers salvaging and rehabilitating Bents 1 through 5 and complete removal of Bents 6 through 8 (fire damaged portion). This alternative would include the following:

- Installing 14 structural pile jackets at Bent 1
- Repair bearing pad at the Abutment (requires superstructure jacking or removal)
- Installing 56, 20 ft long protective wraps at Bents 2 through 5
- Install 3x6 marine treated cross bracing at each Bents 1 through 5
- Install new galvanized hardware
- Install miscellaneous repairs (previously indicated)
- Demolition of Bents (and Spans) 6 through 8

Similar to Alternative B, Alternative C would also require jacking or shoring of the superstructure and divers. The shoring and/or jacking efforts necessary to repair the Abutment can likely be done by heavy equipment staged from land which will reduce cost. We estimate that the cost for this alternative will be between \$1.1M and \$1.3M. Similar to Alternative B, the lifespan if this option is limited by the current age of the substructure. At most, an additional 25 years of service life can be expected with this option.

3.4 Alternative D – Rehab Substructure Install New Aluminum Superstructure

This alternatives considers removing the existing heavy steel superstructure and installing a lighter aluminum framed superstructure. In addition, Bents 6 through 8 would be removed. This alternative would include the following:

- Installing 14 structural pile jackets at Bent 1
- Modify Abutment to accept new superstructure
- Installing 56, 20 ft long protective wraps at Bents 2 through 5
- Install 3x6 marine treated cross bracing at each Bents 1 through 5
- Install new galvanized hardware
- Demolition of Bents (and Spans) 6 through 8
- Install new 10 ft wide aluminum superstructure

This alternative would remove the existing superstructure in its entirety and remove Bents 6 through 8. A new aluminum framed superstructure would be lowered into the rehabilitated pile caps. This option would remove the requirement for jacking or temporarily supporting the superstructure. Divers would be required to complete the underwater repairs.

One disadvantage of this option is that the existing span lengths are approximately 45 ft long. Most commercially available aluminum fixed piers are comprised of aluminum channel sections. As such, maximum span lengths are generally a maximum of 20 feet. Given the current span arrangement of approximately 45 ft it is likely that the aluminum superstructure would likely have to be in an truss or arch configuration. This will significantly drive up cost. Similar to the previous two alternatives, this repair will be limited by the age of the existing substructure. We expect to cost between \$1.1M and \$1.3M.

3.5 Alternative E – Rehab Substructure Install New Timber Superstructure

This alternatives is similar to Alternative D in that it considers removing the existing heavy steel superstructure; however the new superstructure would be timber construction. Bents 6 and 7 would be removed, Bent 8 would remain in the water way. This alternative would include the following:

- Installing 14 structural pile jackets at Bent 1
- Modify Abutment to accept new superstructure
- Installing 56, 20 ft long protective wraps at Bents 2 through 5
- Install 3x6 marine treated cross bracing at each Bents 1 through 5
- Install new galvanized hardware
- Demolition of Bents 6 and 7 (Bent 8 to remain)
- Install new 10 ft wide timber superstructure
- Install new bents to support new timber superstructure.

This alternative would remove the existing superstructure in its entirety and remove Bents 6 and 7. Bent 8 would remain in the water. The abutment would be modified and a new timber superstructure would be placed on the existing pile bents.

One disadvantage of this option is that the existing span lengths are approximately 45 ft long. As such, additional bents would need to be installed in order to support the new timber spans. We expect to cost between \$1M and \$1.2M.

3.6 Alternative F – Demolish Existing

Alternative E consists of complete removal and disposal of the existing fishing pier. At an estimated cost of \$650K to \$800K this is likely to be the least expensive alternative. The primary drawback associated with this option is the lack of a recreational fishing pier at Wimbee Creek Landing.

3.7 New Fishing Pier

As a point of reference for this study, we estimate that a 314 ft long by 11 ft wide timber fishing pier with timber piles and marine grade lumber will cost approximately \$350,000 with a service life of approximately 50 years with the proper maintenance.

4.0 CONCLUSION AND RECOMMENDATIONS

This study presented an engineering opinion regarding potential rehabilitation and demolition options at the Wimbee Creek Fishing Pier. Although there are many potential options, the intent of this document was to generalize several thought out approaches and present them to Beaufort County personnel for consideration in the budgeting and long-range planning processes.

Based on our analysis, we recommend that the Beaufort County consider Alternate F - Complete Demolition. We believe that this alternative will remove a significant liability from Beaufort County infrastructure while at the same time creating a "blank slate" from which to work. As shown in the last paragraph of the preceding section, the cost of a comparable fishing pier constructed of timber will cost approximately \$350,000 and last approximately 50 years. With this understanding, demolishing the existing structure and installing a new one will likely cost Beaufortonians the same or less than the other options listed for consideration.

At the end of this report we have provided an Alternatives Analysis Matrix. This matrix addresses the pros and cons of each alternative and their approximate costs. It is our hope that this report and analysis aids Beaufort County in determining a suitable solution.

McSweeney Engineers greatly appreciates the opportunity to provide this report and looks forward to assisting further in this project. If you need further clarification or have any questions please do not hesitate to contact me.

Respectfully submitted,
McSweeney Engineers, LLC



William Barna, P.E.
Project Manager



Beaufort County, South Carolina Wimbee Creek Fishing Pier Alternatives and Cost Analysis

5.0 Alternatives Analysis Matrix

Alternative	Pros	Cons	Approximate Cost	Anticipated Service Life
A Do Nothing	- No Additional Cost	- Significant Liability (Do Not Recommend)	\$0	0
B Full Rehab	- Reestablish existing structure	- Limited by Age of Existing Substructure - Cost	\$1.5M to \$1.8M	25 Yrs
C Save 5/Demo 3	- Lower Cost of Alternative B	- Limited by Age of Existing Substructure - Cost	\$1.1M to \$1.3M	25 Yrs
D Rehab Substructure New Aluminum Superstructure	- Partial Use of Existing Structure	- Limited by Age of Existing Substructure - Cost	\$1.1M to \$1.3M	25 Yrs
E Rehab Substructure New Timber Superstructure	- Partial Use of Existing Structure - Lowest Cost of Repair Options	- Limited by Age of Existing Substructure - New Bents Must Be Driven - Cost	\$1M to \$1.2M	25 Yrs
F Complete Demo	- Least Cost - Reduced Liability	- No Fishing Pier Structure	\$650,000 to \$800,000	0

*Approximate cost of new timber fishing pier \$350,000 - Service Life 50 years



BEAUFORT COUNTY COUNCIL AGENDA ITEM SUMMARY

ITEM TITLE:
SC 170 Access Management Plan North
MEETING NAME AND DATE:
Public Facilities Committee – September 20, 2021
PRESENTER INFORMATION:
Juliana Smith, Long Range Planner – Zoning and Planning (5 mins)
ITEM BACKGROUND:
Per Resolution 2002-1, Beaufort County adopted the Robert Smalls Parkway Joint Corridor Plan, a planning effort conducted between the City of Beaufort, Town of Port Royal, and Beaufort County to address access management on SC 170 from Parris Island Gateway to the Broad River Bridge. The plan is nearly 20 years old.
PROJECT / ITEM NARRATIVE:
Beaufort County and the City of Beaufort are conducting an update from Parris Island Gateway to Castle Rock Road. Engineering services from Andrews Engineering have been procured under small A&E.
FISCAL IMPACT:
\$49,900 has been funded from TAG fees for the access management plan update.
STAFF RECOMMENDATIONS TO COUNCIL:
For information only
OPTIONS FOR COUNCIL MOTION:
For information only



BEAUFORT COUNTY COUNCIL AGENDA ITEM SUMMARY

ITEM TITLE:
AN ORDINANCE AUTHORIZING THE COUNTY ADMINISTRATOR TO EXECUTE A MODIFICATION OF DRAINAGE EASEMENT ASSOCIATED WITH PARCEL R112-031-000-0628-0000
MEETING NAME AND DATE:
Public Facilities Committee Meeting 9-20-21
PRESENTER INFORMATION:
Jared Fralix, P.E., Assistant County Administrator, Engineering Neil J. Desai, P.E., Public Works Director (5 Minutes)
ITEM BACKGROUND:
Beaufort County was granted a 40' drainage easement by William D. Trask and Harold E. Trask, Jr, recorded in Deed Book 567 on Pages 1768-1769 on 12- 28-1990. The existing drainage ditch does not lie in the area depicted on the Original Easement Plat, and a portion of the Original Drainage Easement associated with parcel R112-031-000-0628-0000 was abandoned. Ditch is located off Hwy 170 near Ashton Overlook Dr.
PROJECT / ITEM NARRATIVE:
A Modification to the original easement will correct the drainage easement location to the existing ditch location.
FISCAL IMPACT:
N/A
STAFF RECOMMENDATIONS TO COUNCIL:
Staff recommends approving County Administrator to execute Modification of Drainage Easement associated with Parcel R112-031-000-0628-0000
OPTIONS FOR COUNCIL MOTION:
<i>Motion to approve/Deny</i> County Administrator to execute Modification of Drainage Easement associated with Parcel R112-031-000-0628-0000. <i>(Next Step) Move action to County Council vote on 9-27-2021</i>

ORDINANCE NO. 2021/_____

**AN ORDINANCE AUTHORIZING THE COUNTY ADMINISTRATOR TO EXECUTE
A MODIFICATION OF DRAINAGE EASEMENT ASSOCIATED WITH PARCEL
R112-031-000-0628-0000**

WHEREAS, Beaufort County was granted a 40' drainage easement by William D. Trask and Harold E. Trask, Jr, recorded in Deed Book 567 on Pages 1768-1769 on December 28, 1990 (the "Original Drainage Easement"); and

WHEREAS, the Original Drainage Easement referenced a Sketch Map titled "Drainage Canal Easement Across the Lands Between S.C. Hwy. 20 and S.C. Hwy. 802", which such Sketch Map was later recorded in the Beaufort County Register of Deeds' Office in Plat Book 40 at Page 52 (said Sketch Map, the "Original Easement Plat"); and

WHEREAS, the existing drainage ditch does not lie in the area depicted on the Original Easement Plat, and a portion of the Original Drainage Easement associated with parcel **R112-031-000-0628-0000** located in the Town of Port Royal, Beaufort County, South Carolina was abandoned ; and

WHEREAS, a modification of the Original Drainage Easement is necessary to amend the terms of the Original Drainage Easement to correctly depict and describe the location of the Revised Drainage Easement as defined in the attached **Modification of Drainage Easement (ORB 567 Page 1768) (PB 40 Page 52)**; and

WHEREAS, it is in the best interest of Beaufort County to authorize the County Administrator to execute the attached **Modification of Drainage Easement (ORB 567 Page 1768) (PB 40 Page 52)** to correctly depict the current location of the drainage easement; and

NOW, THEREFORE, BE IT RESOLVED that Beaufort County Council hereby authorizes the County Administrator to execute documents associated with the revised drainage easement located on parcel R112-031-000-0628-0000 as described in the attached **Modification of Drainage Easement (ORB 567 Page 1768) (PB 40 Page 52)**.

ADOPTED this ____ day of _____, 2021.

COUNTY COUNCIL OF BEAUFORT COUNTY

By: _____
Joseph Passiment, Chairman

ATTEST:

Sarah W. Brock, Clerk to Council

within Revised Drainage Easement as shown on the Revised Drainage Easement Plat, such easement rights are hereby terminated and abandoned, including without limitation, any easement rights located within the hatched area on the Revised Drainage Easement Plat labeled as “To Be Filled 0.639 acres”.

3. **Modification of Original Easement Terms.** The provisions and terms set forth in the Original Drainage Easement are hereby modified as follows:
 - a. All County inspection and maintenance work to the Revised Drainage Easement shall be conducted between the hours of 9:00 a.m. and 5:00 p.m., Monday through Friday. Notwithstanding the preceding, the County may access the Revised Drainage Easement at any time and any day in the event of emergency to conduct emergency repairs or maintenance. The County shall maintain the Revised Drainage Easement to accommodate the flow of drainage and prevent the growth of weeds and underbrush within the Revised Drainage Easement.
 - b. The County’s access to the Revised Drainage Easement is limited to the roadways within the Burdened Property.
 - c. Section 4 “Special Provisions” of the Original Drainage Easement is no longer applicable and is hereby deleted in its entirety.
 - d. The Owner shall have the right to maintain, repair and reconstruct the existing Ashton Overlook Drive that crosses the Revised Drainage Easement.
 - e. The Owner shall have the right to use the Burdened Property, so long as said use does not impede drainage through the Revised Drainage Easement or damage or compromise any drainage infrastructure installed by the County. Such rights shall include the right to run conduits for electrical, cable, internet, telephone and other utility wiring across the Revised Drainage Easement.
4. **Severability.** In the event any provision hereof is held to be invalid or unenforceable, such invalidity or unenforceability shall not affect the validity or enforceability of any other provision hereof and this Modification shall be construed in all respects as if such invalid or unenforceable provision were omitted.
5. **Remedies.** In the event of any breach of the terms and conditions of this Modification, the non-breaching party shall be entitled to bring an action in law or in equity against the breaching party. All remedies shall be available to the non-breaching party including, but not limited to, specific performance and actual damages.
6. **Attorney’s Fees and Costs.** In the event it is necessary for any party to this Modification to initiate any legal proceeding whatsoever for the purpose of enforcing its rights under this Modification, the prevailing party is entitled to recover any and all expenses, including but not limited to, court costs and reasonable attorney’s fees incurred in connection therewith, from the non-prevailing party.
7. **Governing Law.** This Agreement shall be construed, governed and interpreted in accordance with the laws of State of South Carolina.
8. **Successors and Assigns.** This Modification shall run with the Burdened Property and shall be binding upon the Owner and the County, and their respective successors and assigns.
9. **Miscellaneous.** This Modification shall be recorded in the Beaufort County Register of Deeds Office.

10. Amendments to be Written. There are no oral understandings, terms or conditions, or no party hereto has relied any representations, express or implied, not contained in this Modification. This Modification may not be amended or further modified except by written modification executed by the parties hereto.

EXHIBIT A

Legal Description of Burdened Property

ALL that certain piece, parcel or tract of land, situate, lying and being in the Town of Port Royal, Beaufort County, South Carolina, measuring and containing 16.590 acres, more or less, as more particularly shown and designated as "PARCEL 'B', 16.590 ACRES" on that certain plat entitled, "SUBDIVISION PLAT ALSO SHOWING NEW WETLAND BUFFERS & DITCH EASEMENT PREPARED FOR ASHTON POINTE PROPERTY LIMITED PARTNERSHIP MU1 PORTION OF TRASK PROPERTY (P.O. 112-31-595) BEAUFORT COUNTY, SOUTH CAROLINA 31.619

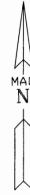
ACRES TOTAL" prepared by David C. Youmans dated February 14, 2006 and recorded in the ROD Office for Beaufort County in Plat Cabinet 111 at page 189 (the "Plat"). Said tract of land having such size, shape, buttings and boundings as will by reference to said plat more fully appear.

BEING THE SAME property conveyed by Grantors here in to Ashton Pointe Property Limited Partnership, a Virginia limited partnership by deed dated February 22, 2006 and recorded February 24, 2006 in Deed Book 2325, Page 2557-2566 in the ROD Office for Beaufort County as previously conveyed to the Grantors herein by deed recorded on February 24, 2005, in the ROD Office for Beaufort County in Book 1418, at page 2203 in the ROD Office for Beaufort County.

TMS# R112-031-00-0628-0000-00

Exhibit "B"

VICINITY MAP NOT TO SCALE



SUBDIVISION PLAT
ALSO SHOWING
NEW WETLAND BUFFERS & DITCH EASEMENT
PREPARED FOR
ASHTON POINTE PROPERTY LIMITED PARTNERSHIP
MUI PORTION OF TRASK PROPERTY (P.O. 112-31-595)
BEAUFORT COUNTY SOUTH CAROLINA

31.619 ACRES TOTAL

THIS PROPERTY IS LOCATED IN ZONES A-9 (EL 13.0)
& C AS DETERMINED BY FEMA, FIRM COMMUNITY-PANEL
NUMBER 450025 0065 D, DATED 9-29-86.

R112-031-000-0595-0000 (PORTION OF)

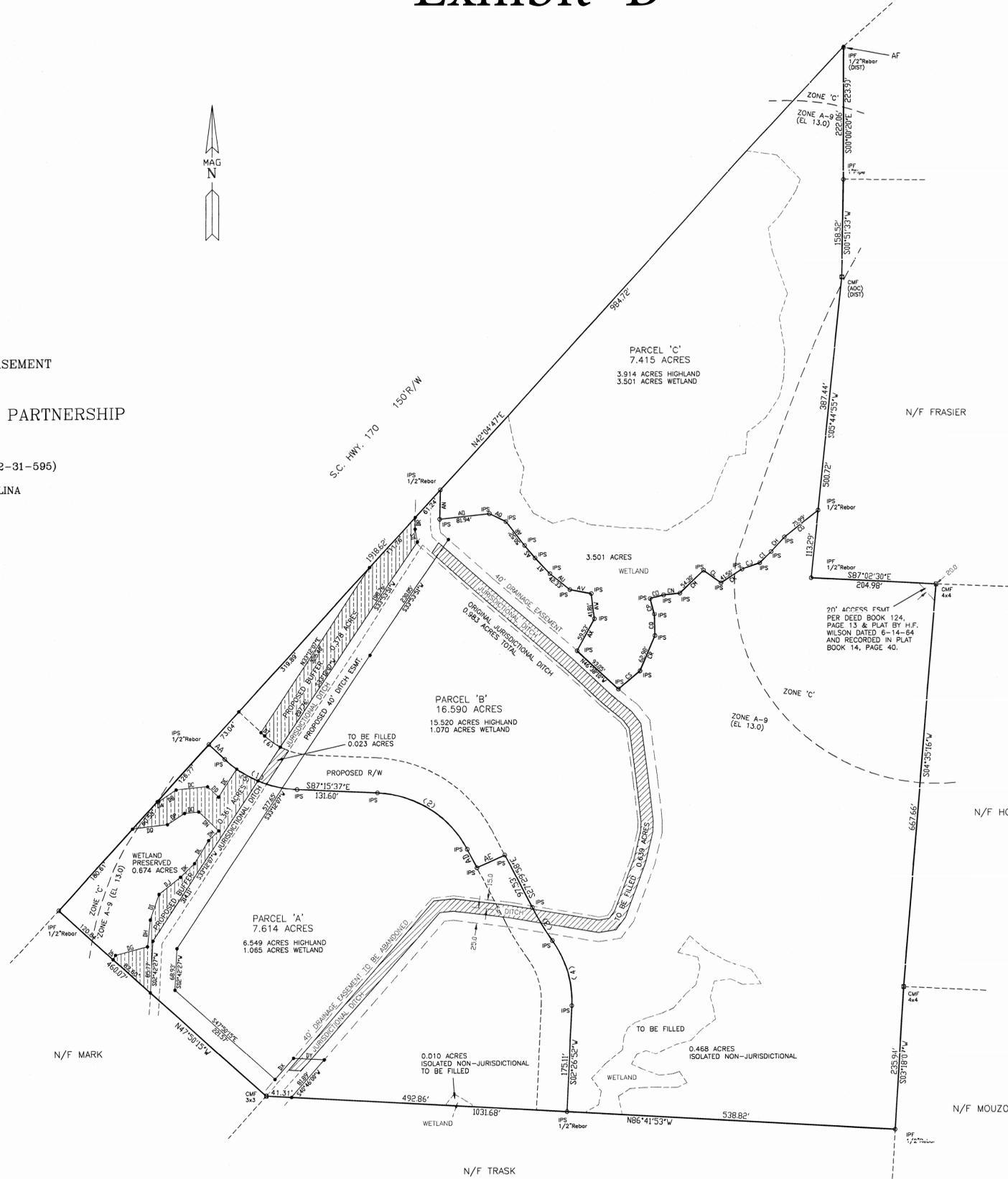
0 50' 100' 200' 300'

SCALE 1" = 100'
FEBRUARY 14, 2006

P12611A/MMA

REVISED 5-18-07 - CORRECTED FLOOD ZONE
REVISED 1-30-08 - ADJUSTED FILLED DITCH AREA

THIS PLAT SUPERSEDES PLAT RECORDED IN PLAT BOOK 120, PAGE 19.



WETLAND PERMIT # - SAC39-2005-0686-1

NO.	DELTA	RADIUS	ARC	TANGENT	C-BEARING	CHORD
1	41°10'08"	183.00'	131.49'	68.73'	S66°40'33"E	198.68'
2	59°45'39"	175.00'	102.53'	100.35'	S37°22'48"E	174.37'
3	7°40'23"	475.00'	63.61'	31.85'	S31°20'09"E	63.57'
4	37°37'13"	175.00'	114.90'	59.61'	S16°21'44"E	112.85'

NO.	DELTA	RADIUS	ARC	TANGENT	C-BEARING	CHORD
5	12°34'21"	183.00'	40.16'	20.16'	S60°18'48"E	40.08'
6	15°39'21"	117.50'	32.11'	16.15'	N53°55'10"W	32.01'

NO.	BEARING	DISTANCE
AA	S46°05'29"E	36.12'
AD	S27°29'58"E	34.78'
AE	N65°21'57"E	50.06'
AF	S00°00'00"E	1.83'
AN	S01°18'09"W	46.68'
AO	N83°55'59"E	81.94'
AP	S62°45'30"E	29.74'
AR	S37°12'23"E	50.52'
AS	S39°02'47"E	27.18'
AT	S42°10'00"E	35.71'
AU	S50°35'50"E	42.33'
AV	S78°59'29"E	35.75'
AW	S06°40'14"E	41.81'
AX	S28°16'57"W	59.53'
CG	N51°15'28"E	70.99'
CH	N41°45'40"E	32.62'
CI	N45°17'12"E	25.38'
CJ	N70°49'49"E	30.62'
CK	N56°15'29"E	41.50'
CL	S53°28'47"E	33.44'
CM	N45°45'41"E	54.30'
CN	N84°00'11"E	25.67'
CO	N75°22'29"E	25.91'
CP	N15°14'12"W	26.42'
CQ	N01°16'21"W	35.55'
CR	N22°49'43"E	62.98'
CS	N49°40'06"E	46.42'

NO.	BEARING	DISTANCE
DA	N83°23'56"E	2.77'
DB	N56°44'02"E	33.99'
DC	N84°30'00"E	51.76'
DD	S45°51'14"E	44.56'
DE	N51°12'07"E	54.94'
DF	N29°09'11"E	8.15'
DG	N75°01'07"E	54.21'
DH	N85°32'38"E	43.52'
DI	N18°38'12"E	44.26'
DJ	N42°42'04"E	44.89'
DK	N45°30'03"E	32.06'
DL	N31°03'03"E	44.51'
DM	N45°57'18"E	22.77'
DN	N45°51'13"W	45.23'
DO	S84°30'00"W	23.37'
DP	S56°44'03"W	53.58'
DQ	S83°23'51"W	57.75'
DR	S01°18'09"W	19.54'
DS	S09°55'21"E	21.71'
DT	N46°05'30"W	8.18'
DX	N40°46'00"E	46.18'
DT	S86°41'55"E	30.40'

I HEREBY STATE THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THE SURVEY SHOWN HEREON WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MINIMUM STANDARDS MANUAL FOR THE PRACTICE OF LAND SURVEYING IN SOUTH CAROLINA, AND THAT THE SAME EXCEEDS THE REQUIREMENTS FOR A CLASS B SURVEY AS SPECIFIED THEREIN. ALSO THERE ARE NO VISIBLE ENCROACHMENTS OR PROJECTIONS OTHER THAN SHOWN.



DAVID S. YOUMANS RLS 9765
BEAUFORT SURVEYING, INC.
1613 PARIS AVENUE
PORT ROYAL, S.C. 29935
PHONE (843) 524-3261