VALHALLA DE TORTUGA

SINGLE SLOOP - MAST / RIGGING PLAN

COLLIGO SYNTHETIC RIG CANDIDATE
FOUR LIFELINE RUNS - PORT & STARBOARD GATES

VESSEL & MAST DATA - CURRENT RECORD

Vessel / rig	Single-mast sloop conversion
LOA / LWL / displacement	Survey reconciliation open
Beam record	14 ft 6 in - field verify
Mast section / material	11A / aluminum
Overall mast length	70 ft 1 in
Upper attachment	~68 ft from mast base
Lower spreader station	28 ft 9.5 in
Upper spreader station	49 ft 1 in
Lower spreader arm	4 ft 9 in EACH
Upper spreader arm	3 ft 9 in EACH
Spreader pin record	1/2 in x 3 in - verify grip

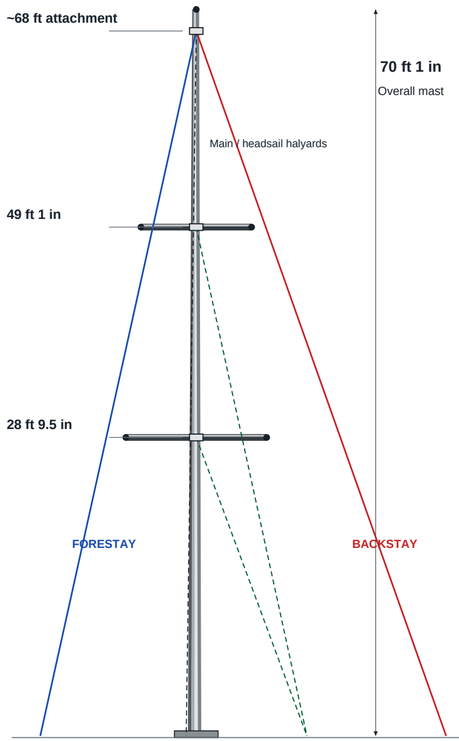
RIGGING CONFIGURATION / DESIGN BASIS

- Forestay / furler to bowsprit; backstay to boomkin.
- Port and starboard shrouds; two spreader levels.
- Colligo Para-D candidate; final topology by rigger.
- 14 assemblies / 483 ft in historical Rigworks quote.
- Covered HMPE running rigging; tan / buff preference.
- Wind sensor, VHF antenna and mast / spreader lights.

LINE COLOR KEY / SCHEMATIC

- Forestay / furler
- Backstay
- Upper shrouds
- Lower / diagonal
- Mast / spreaders
- Halyard / services

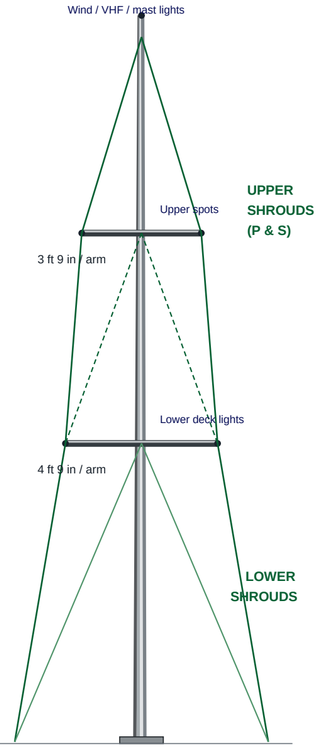
SIDE ELEVATION (PORT SIDE)



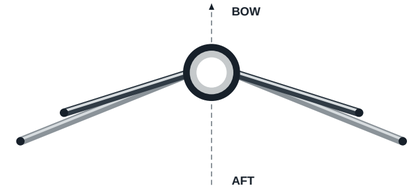
Deck elevation: verify

Illustrative paths; final topology OPEN - see RG-003.

FRONT VIEW



TOP VIEW - SPREADER PLAN (LOOKING DOWN)



Levels overlaid; sweep direction illustrative. Actual sweep / root spacing: verify.

COLLIGO HARDWARE - REFERENCE / FINAL SELECTION OPEN

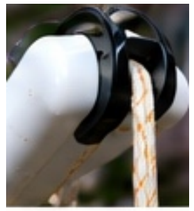
CHEEKY TANG



Mast / chainplate

Size / quantity / compatibility TBD

SPREADER GUIDE



Radius / chafe control

Size / quantity / compatibility TBD

RIG TERMINAL



Matched to core

Size / quantity / compatibility TBD

TENSIONER



Travel / pin grip

Size / quantity / compatibility TBD

SINGLE TANG

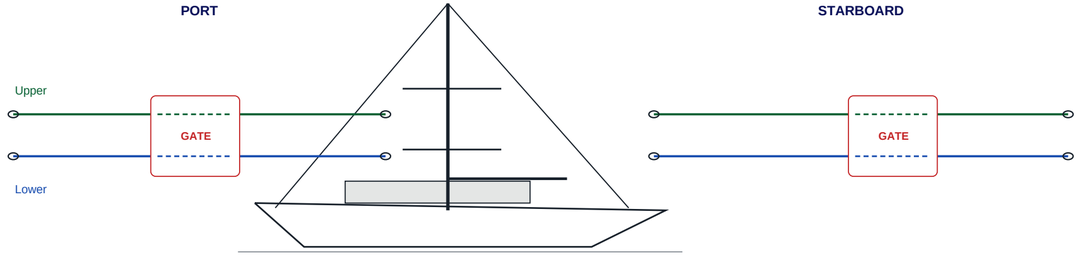


Rigger-selected fit

Size / quantity / compatibility TBD

LIFELINE SYSTEM - FOUR RUNS / TWO OPENING GATES

UPPER & LOWER OPEN AT EACH GATE - EXACT HARDWARE COUNTS TBD





Dead-end terminal



Fixed gate eye



Gate-end hook



Lashing / chafe

STANDING RIG - DIMENSION / LENGTH RECONCILIATION

Record	Current interpretation	Release status
Outer forward sketch	361.5 in = 30 ft 1.5 in	Historical; verify
Inner forward sketch	227 in = 18 ft 11 in	Historical; verify
Aft / boomkin sketch	419 in = 34 ft 11 in	Historical; verify
Rigworks 2025 estimate	14 assemblies / 483 ft	Historical scope only
Final synthetic rig	Members / diameters / cuts TBD	Rigger / Colligo design

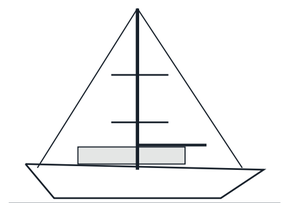
LINE MATERIALS / ORDER HOLD

STANDING RIG
Colligo Para-D candidate.
No released core sizes or cut lengths.

RUNNING RIG
Covered HMPE; line-by-line design.

SUPERSEDED
11 / 13 mm Dux and 396.7 / 450 ft legacy order allowances.

RIG PROFILE - SCHEMATIC



Bowsprit + boomkin interfaces: survey

STANDING RIG HARDWARE - FORM / FUNCTION REFERENCE

Double tang



Qty / rating TBD

Single tang



Qty / rating TBD

Spreader guide



Qty / rating TBD

Terminal



Qty / rating TBD

Tensioner



Qty / rating TBD

Shackle



Qty / rating TBD

RIGGING BILL OF MATERIALS - MASTER SUMMARY / FULL BOM ATTACHED

BOM	Assembly / material	Quantity	Status / scope
01-04	Mast / lower + upper arms / pins	1 mast / 4 arms	Owned record / measure hardware
05-10	Synthetic rig / tangs / terminals / guides	1 system / parts TBD	Candidate; four spreader-tip locations
11-14	Lifelines / gates / terminals / supports	4 runs / 2 gates	Planned; lengths and counts TBD
15-18	Halyards / sheets / controls / furler	By sail plan	Covered HMPE; furler compatibility
19-21	Structural interfaces / mast service fittings	Survey / TBD	See detailed RM-01 through RM-21

LIFELINE HARDWARE REFERENCE



Terminator



Gate eye



Gate hook



Lashing

No inherited 450 ft order / old price total.

VERIFY BEFORE ORDER

Measure stay pin centers and mast datum.
Inspect mast wall, chainplates and supports.
Confirm all pin diameters and usable grip.
Verify spreader sweep, tips and root spacing.
Map every historical assembly to the new rig.

SYSTEM / PROCUREMENT STATUS

Standing rig: complete design still required.
Lifelines: 4 runs / 2 gate locations.
Upper and lower open at each gate.
Final rope lengths / sizes / prices: TBD.
Full 21-item illustrated BOM follows.

GENERAL NOTES / MAST SERVICES

Heights use historical mast-base datum, not assumed deck height.
Schematic support paths do not authorize fabrication.
Wind instrument, VHF antenna, mast and spreader lights retained.
Reference photos show form and function, not approved selection.
Technical details: RG-001 through RG-004, retained Rev F.

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Master and Captain

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RIGGING / LIFELINES

VDT-RG-000 | REV G

19 SEP 2026 | NTS

NOT FOR CONSTRUCTION

FORMAT + BOM COORDINATION

Equipment imagery: user-supplied layout reference and Colligo product references. Detailed BOM and technical holds govern procurement.

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RIGGING BILL OF MATERIALS

STANDING RIG / MAST HARDWARE

REV G | 19 SEP 2026

Planning quantities - final specification / prices open

HARDWARE REFERENCE - FORM AND FUNCTION ONLY; EXACT PRODUCTS NOT RELEASED



RM-06 | Single tang

Illustrative reference; compatible size and count TBD.



RM-07 | Double tang

Illustrative reference; compatible size and count TBD.



RM-08 | Terminal

Illustrative reference; compatible size and count TBD.



RM-09 | Tensioner

Illustrative reference; compatible size and count TBD.



RM-10 | Spreader guide

Illustrative reference; compatible size and count TBD.

ID	MATERIAL / ASSEMBLY	QUANTITY BASIS	STATUS	INTERFACE	SPECIFICATION / RELEASE REQUIREMENT
RM-01	Aluminum mast / section 11A record	1 mast	OWNED RECORD	RG-001	Confirm section, condition, base datum, overall length and fittings.
RM-02	Lower spreader arms	2 arms	HISTORICAL	RG-001 / RG-002	4 ft 9 in per arm; inspect and measure sweep, root spacing and tip centers.
RM-03	Upper spreader arms	2 arms	HISTORICAL	RG-001 / RG-002	3 ft 9 in latest record; verify each arm and fitted geometry.
RM-04	Spreader pins / retention hardware	TBD	HISTORICAL	RM-02 / RM-03	1/2-in diameter x 3-in total reported; grip, hole fit and retention unverified.
RM-05	Complete synthetic standing rig / Para-D candidate	1 system; members TBD	CANDIDATE	RG-003	Map 14 quoted assemblies to final topology; no released core diameters or lengths.
RM-06	Single Cheeky Tang / approved equivalent	TBD	CANDIDATE	Mast attachments	Photo reference only; load, pin and mast-wall interface approval.
RM-07	Double Cheeky Tang / approved equivalent	TBD	CANDIDATE	Mast attachments	Only where rigger selects; no assumed count from legacy six-member concept.
RM-08	Standing-rig terminals / matched end fittings	TBD	CANDIDATE	All stay/shroud ends	Core size, articulation, bend radius, terminal geometry and compatible tensioners.
RM-09	Deck tensioners / turnbuckles / toggles	TBD	CANDIDATE	Chainplates	Thread, travel, working load, jaw width and usable pin grip.
RM-10	Spreader-end guides / chafe protection	4 locations; parts TBD	PLANNED	2 lower + 2 upper tips	Inspect guide design, radii, retention and synthetic-line path.

QUANTITY CONTROL

Four spreader arms = two lower + two upper. Four lifeline runs = upper / lower on each side. Two gate locations = four level openings.

MATERIAL / COST BASIS

Colligo Para-D remains a standing-rig candidate. Covered HMPE running lines; tan / buff preference. Unit prices and extended total: TBD by supplier quote.

BOM BOUNDARY

Historical wire quote: 14 assemblies / 483 ft. It is not a synthetic order. Electrical devices stay in the electrical BOM; RM-21 covers mounting interfaces.

DOCUMENT CONTROL / ORDER RELEASE

Read with VDT-RG-000 Rev G and supporting VDT-RG-001 through RG-004 Rev F. Confirm actual pin-center coordinates, mast datum, topology, loads, core diameters, terminations and cut lengths before procurement.

Changes in Rev G: illustrated BOM coordinated to master; explicit spare-halyard allowance; mast-service mounting scope clarified. No new rig sizing or fabrication approval.

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VDT-RG-BOM-01 | REV G

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RIGGING BILL OF MATERIALS

LIFELINES / RUNNING RIG / STRUCTURAL INTERFACES

REV G | 19 SEP 2026

Planning quantities - final specification / prices open

HARDWARE REFERENCE - FORM AND FUNCTION ONLY; EXACT PRODUCTS NOT RELEASED



RM-13 | Dead-end fitting

Illustrative reference; compatible size and count TBD.



RM-12 | Gate eye

Illustrative reference; compatible size and count TBD.



RM-12 | Gate hook

Illustrative reference; compatible size and count TBD.



RM-13 | Lashing

Illustrative reference; compatible size and count TBD.



Interfaces | Connector

Illustrative reference; compatible size and count TBD.

ID	MATERIAL / ASSEMBLY	QUANTITY BASIS	STATUS	INTERFACE	SPECIFICATION / RELEASE REQUIREMENT
RM-11	Upper/lower port/starboard lifeline material	4 runs; lengths TBD	PLANNED	LL-PU / PL / SU / SL	Final material diameter, tension and actual run lengths measured.
RM-12	Opening-gate assemblies / upper + lower	2 gate locations; 4 level openings	PLANNED	G-P / G-S	Each gate opens at both levels; exact hooks, eyes and connectors by design.
RM-13	Lifeline terminals / lashings / chafe sleeves	TBD	PLANNED	RM-11 / RM-12	Counts and lengths follow measured termination scheme; no inherited 450-ft order.
RM-14	Stanchions / wooden rails / supports	Inventory and quantity TBD	PLANNED / SURVEY	Deck / lifelines	Inspect existing supports; connection loads and gate positions.
RM-15	Main / headsail halyards	2 functions; lengths TBD	PLANNED	RR-01 / RR-02	Covered HMPE; reeving, tails, sheave and clutch compatibility. Spare halyard / messenger allowance: confirm provision and quantity.
RM-16	Main sheet / headsail sheets	1 main + port/starboard functions	PLANNED	RR-03 / RR-04	Final sail plan, loads, purchase ratios, lead geometry and lengths.
RM-17	Reefing / outhaul / vang / topping lift	TBD by sail plan	ALLOWANCE	RR-05 onward	Line-by-line construction, hardware and lengths; not a universal diameter.
RM-18	Furler / forestay interface and control	1 function; parts TBD	SURVEY / CANDIDATE	Forestay	Existing furler record; synthetic compatibility and bearing/torque requirements.
RM-19	Bowsprit / boomkin / chainplate interfaces	Inventory TBD	SURVEY	RG-002	Coordinate pin locations and structural load paths; not fabrication release.
RM-20	Mast step / compression / support hardware	1 support system; parts TBD	SURVEY	RG-001	Structural review before final rig loads; no new sizing assumed.
RM-21	Mast service mounts / glands / conduits	TBD by devices	PLANNED	EL-006 / EM-31	Wind sensor, VHF antenna, mast lamps, lower deck lights and upper spots; electrical devices remain in EM BOM. Mechanical supports only here.

QUANTITY CONTROL

Four spreader arms = two lower + two upper. Four lifeline runs = upper / lower on each side. Two gate locations = four level openings.

MATERIAL / COST BASIS

Colligo Para-D remains a standing-rig candidate. Covered HMPE running lines; tan / buff preference. Unit prices and extended total: TBD by supplier quote.

BOM BOUNDARY

Historical wire quote: 14 assemblies / 483 ft. It is not a synthetic order. Electrical devices stay in the electrical BOM; RM-21 covers mounting interfaces.

DOCUMENT CONTROL / ORDER RELEASE

Read with VDT-RG-000 Rev G and supporting VDT-RG-001 through RG-004 Rev F. Confirm actual pin-center coordinates, mast datum, topology, loads, core diameters, terminations and cut lengths before procurement.

Changes in Rev G: illustrated BOM coordinated to master; explicit spare-halyard allowance; mast-service mounting scope clarified. No new rig sizing or fabrication approval.

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VDT-RG-BOM-02 | REV G

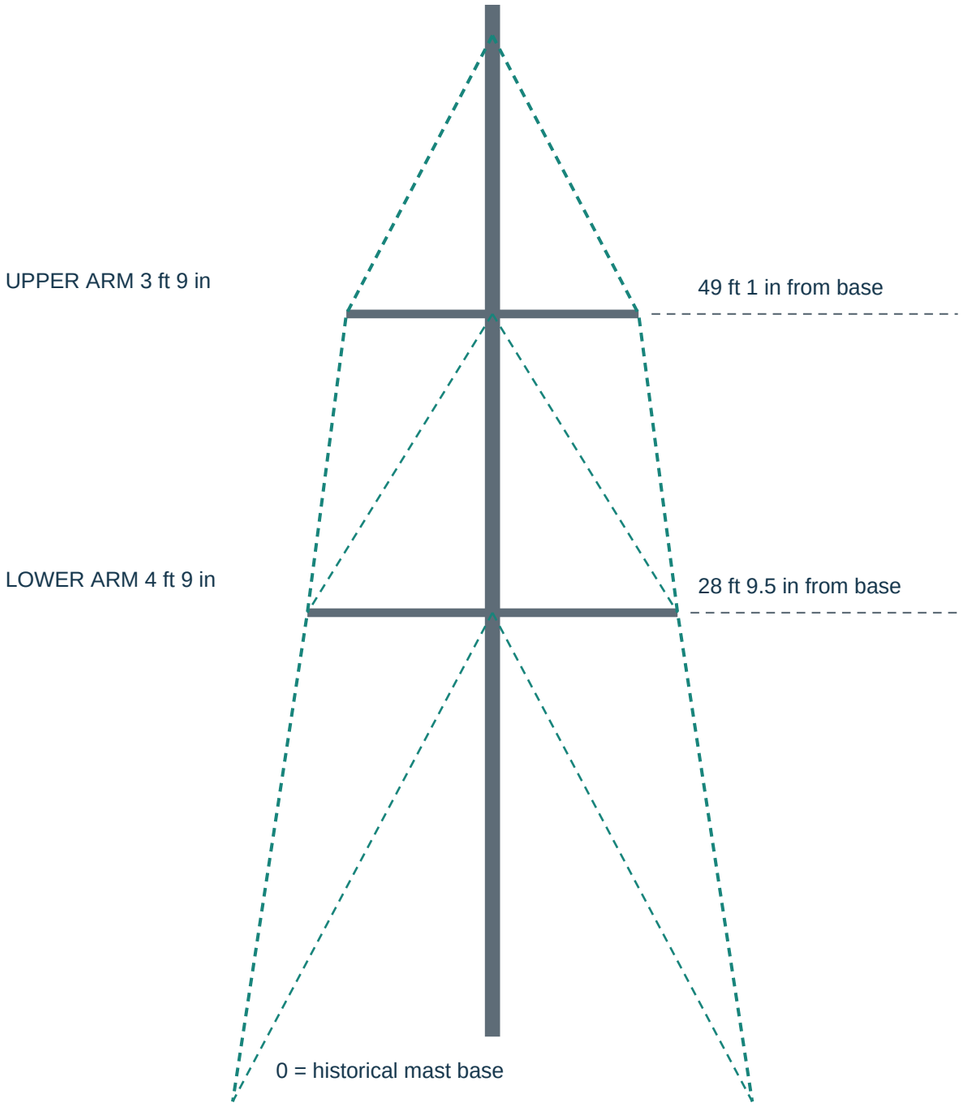
NOT FOR CONSTRUCTION
NOT AN ORDER

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Rig elevations and mast station control

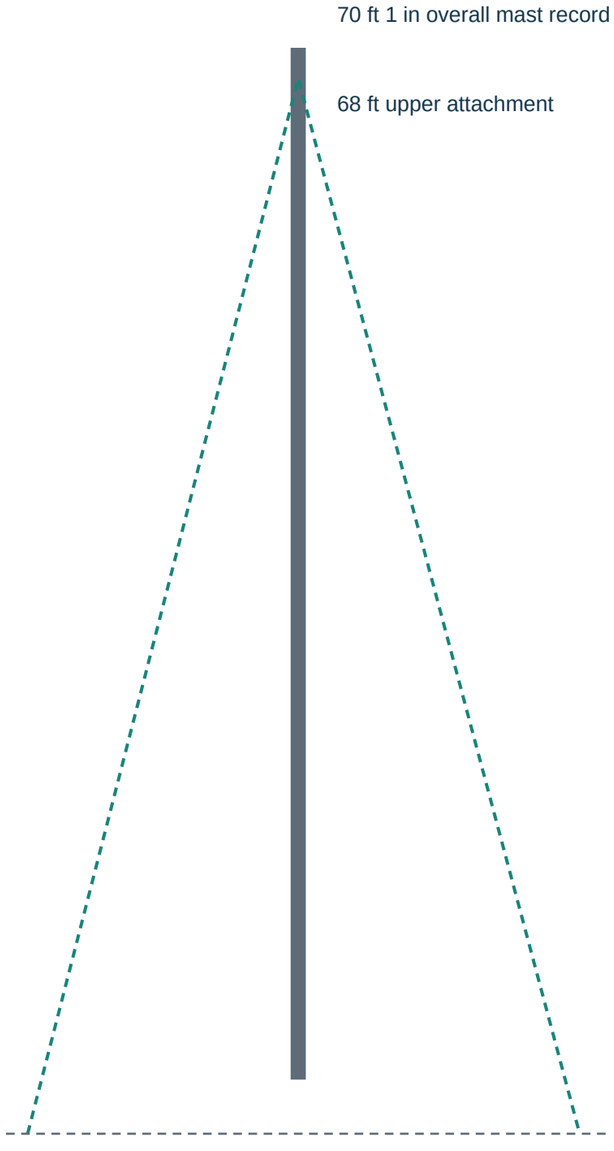
Revision E: recovered mast-base datum and individual spreader-arm dimensions; support paths remain conceptual

TRANSVERSE VIEW - SHROUD PATHS TO BE ENGINEERED



Deck/chainplate height unknown

LONGITUDINAL VIEW - SEPARATE STAY PLANE



GEOMETRY / STRUCTURE

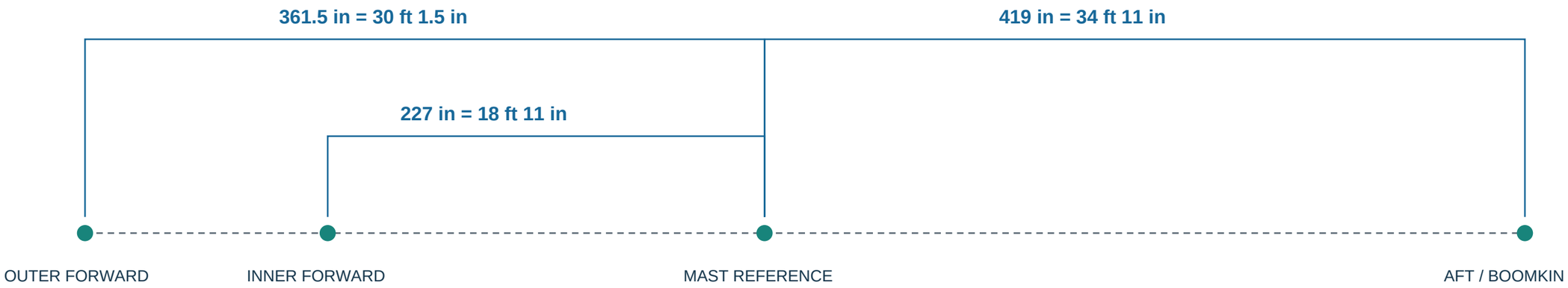
Deck position and mast rake are not established. Dashed lines indicate load-path scope, not an approved continuous or segmented shroud topology.
C-LORD 11A reference: 11.0 x 7.500 in; 0.205-in wall; 7.2 lb/ft. Historical Ix 94.33 / Iy 45.73: units and axes unverified.
Check mast condition, step/compression structure, chainplates, bowsprit and boomkin before final loads or terminals.

Wind sensor, VHF antenna, navigation/anchor lamps, lower-spreader deck lights and upper-spreader spots are permanent mast scope. See EL-006. Heights are historical records, not a verified air draft.

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Deck attachments and recovered dimensions

Original September 2025 sketch values are in inches; positions below are schematic and are not a measured deck plan



CORRECTION TO EARLIER CONCEPT LABELS

361.5 inches is not 36 ft 1.5 in. 419 inches is not 41 ft 9 in.
The two outer distances sum to 780.5 in = 65 ft 0.5 in. This is the sketch endpoint span, not verified hull LOA or LWL.

PORT / STARBOARD ATTACHMENT RECORD

Historical sketch: forward radial/diagonal 90.5 in each side; abeam 90 in each side; aft radial/diagonal 98 in each side.
Do not treat all of these as lateral offsets or derive hull beam from them.

Field record to obtain	Required coordinate / interface
Every chainplate and stay endpoint	Unique ID; x forward/aft, y port/starboard, z above common datum; actual pin-center location.
Spreader roots and tips	Each arm eye-center to eye-center, root spacing, lateral projection, sweep and attachment station.
Bowsprit / boomkin / furler	Load-bearing structure, pin centers, articulation, sail/furler compatibility and clearance.
Vessel dimensions	Distinguish hull length, LOA with appendages, LWL and reported 14.5-ft beam.

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Rigging reconciliation and procurement hold

Replaces Rev D six-member BOM as a complete-order basis; historical sources remain distinct

Evidence	Recovered value	Rev E disposition
Numbered sketch #1	18 ft 6 in; top attachment to upper tip	68 ft - 49 ft 1 in = 18 ft 11 in. Five-inch mismatch; confirm endpoints and path.
Numbered sketch #2	20 ft 5.5 in; upper tip to lower tip by caption	Station difference is 20 ft 3.5 in. Two-inch mismatch; sketch bracket ambiguous.
Numbered sketch #3 / #4	20 ft 3 in / 30 ft	Tentative diagonals: upper mast to lower tip / lower rig to deck. Rigger to map and measure.
Spreader arms / pins	Lower 4 ft 9 in; upper corrected to 3 ft 9 in	Individual arms. Pins reported 1/2-in diameter x 3-in TOTAL length; usable grip and holes unknown.
Reported existing wire	7/16-in 1x19 fore/back; 3/8-in upper/lower	Owner correspondence basis; not the same as the Rigworks replacement quote.
Colligo synthetic candidate	Para-D; compatible tangs, terminals and tensioners	Earlier 11/13-mm Dux questioned for stretch. Final size, creep, pretension and set remain with rigger/Colligo.

Rigworks estimate 3653 / 8 Oct 2025	Quantity	Assembly LOA	Line-item footage
3/8-in 1x19	4	20.5 ft	82 ft
1/2-in 1x19	2	30.5 ft	61 ft
1/2-in 1x19	4	20.5 ft	82 ft
1/2-in 1x19	2	79 ft	158 ft
3/8-in 1x19	2	50 ft	100 ft

14 quoted assemblies / 483 ft is historical quote arithmetic, not a synthetic order quantity. Map segments and terminals before comparing with the old six-member concept. The inherited 396.7-ft concept and ~450-ft allowance are withdrawn from procurement. Terminal counts, final topology and cut lengths remain OPEN.

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Rigging interfaces, running lines and lifelines

Current material preferences retained; final line-by-line schedule requires sail plan and measured leads

System / proposed IDs	Current scope	Final design / measurement needed
Standing rigging ST-01 onward	Forestay/furler, backstay and complete port/starboard shroud system; quantity/topology OPEN	Map 14 historical assemblies against actual mast fittings. Rigger to confirm fore/aft stability, diagonals and load paths.
Terminations / tensioning	Colligo-compatible Cheeky Tangs or approved alternatives; turnbuckles remain candidates	Load and stiffness sizing; articulation; bearing/bend radius; thread travel; pin/grip; isolation from aluminum; splicing instructions.
Spreader ends	Two lower arms plus two upper arms	Retain as separate assembly types; verify chafe protection and synthetic-line routing under all load cases.
RR-01 / RR-02	Main halyard / headsail halyard	Covered HMPE/Dyneema preference; sail head attachment, sheaves, clutch/winch grip and full travel.
RR-03 / RR-04	Main sheet / headsail sheets, port and starboard	Final sail plan, purchase ratio, boom lead and sheet loads; confirm suitable construction rather than one common diameter.
RR-05 onward	Reefing, outhaul, topping lift, vang and furler-control allowances	Actual sail/boom/furler hardware controls count. Working length + tails + splices measured separately.
LL-PU / LL-PL / LL-SU / LL-SL	Four upper/lower port/starboard Dyneema lifeline runs	Measure paths and terminations; support geometry, chafe and inspection requirements.
G-P / G-S	Two gates; upper and lower levels both open	Gate positions, opening length, locking hardware and tension adjustment; do not infer two extra full lifeline runs.

RELEASE TO COLLIGO / RIGGER

Supply measured pin coordinates, labeled photos, mast section/condition, rig sketch and sail plan. Request stiffness-based sizing, pretension/set, compatible hardware, inspection criteria and itemized quote.

SOURCE BASIS / CHANGE CONTROL

Rev D rigging PDF + 19 Sep continuity and photo-measurement reviews (2025 archive and Rigworks estimate). Historical evidence is not an as-built survey. Tan/buff working-line appearance retained; hemp only decorative.