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Third Coast Tech Scope of Work

City of Belle Isle – Modernizing the Audiovisual System for the Council Chambers – RFP #2026-06

Purpose: The purpose of this document is to define the work Third Coast Tech will perform, the equipment it will furnish, the responsibilities of the City of Belle Isle, and the assumptions and clarifications on which this proposal is based.

1. Project Information

Item	Detail
Owner	City of Belle Isle, Florida (the "City")
Project / RFP	Modernizing the Audiovisual System for the Council Chambers, RFP No. 2026-06 (re-solicitation of RFP No. 2026-05)
Site	Belle Isle City Hall, Council Chambers, 1600 Nela Avenue, Belle Isle, FL 32809
Owner contact	Yolanda Quiceno, City Clerk (City project manager), (407) 851-7730, yquiceno@belleislefl.gov
City IT consultant	Eola Technology (network, storage, security and remote access approvals)
Contractor	Third Coast Tech, LLC, 3485 Steel Rail Drive Suite 101, Bunnell, Florida, 32110 1-800-828-9517
TCT project number	TCT-2441
Proposal due	Thursday, November 5, 2026, 3:00 p.m. EDT, electronically through DemandStar only

2. Acknowledgment of Solicitation Documents

Third Coast Tech has reviewed the following documents. This scope reflects each of them.

Document	Date	Effect on this scope
RFP No. 2026-06, Modernizing the Audiovisual System for the Council Chambers (31 pp.), incl. Exhibits A, B, C	10/01/2026	Base requirements, microphone table, deliverables, contract terms, forms
RFP 2026-06 Scope Highlights (8 pp.)	10/01/2026	Summary of scope, exclusions and scoring

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Document	Date	Effect on this scope
Addendum No. 1, Q&A items A1–A16 (5 pp.)	10/27/2026	Lighting excluded (A1); room 29'-10" x 28'-6" (A2); new rack, itemized (A9, A10); existing screen may remain (A11); USB-C at Clerk (A12); "may" = optional (A13); fixed-price training (A15); no voting (A16); AV-only cleanup (A7)
Addendum No. 2, General Q&A (1 p.)	10/27/2026	Cone of silence added; no U.S.-manufacture requirement
TCT design set TCT-2441, sheets AV-001, AV-100, AV-110, AV-101 to AV-105, AV-201, AV-301, AV-302, RFI-001, RFI-002 (Third Coast Tech)	11/04/2026 (WIP)	System design, signal flow, assumed room layout, rack, equipment schedule, RFP conformance matrix, open items
TCT D-Tools BOM, TCT-2441	11/04/2026	Equipment list matching the design set tags

Per the RFP section "Solicitation Documents and Changes (Addenda)," the proposer is responsible for all addenda and a proposal may be considered non-responsive if it does not reflect them. Addenda are acknowledged below.

Addendum No. 1 received: M.B. (initials)
Addendum No. 2 received: M.B. (initials)

3. Summary of Work

Third Coast Tech will design, furnish, install, program, test, commission, document, train on and support a complete new audiovisual system for the Belle Isle Council Chambers, as required by RFP Exhibit A. All principal equipment is new, current-production and manufacturer-supported. No existing audiovisual equipment is reused, except the motorized projection screen if it is found suitable (Addendum No. 1, A11).

The system is built on the Q-SYS platform. A Q-SYS NV-32-H in Core Mode at the City Clerk workstation is the processor for audio, video switching and control. Equipment is shown on the TCT design set: concept flow on AV-100 and AV-110, port-level signal flow on AV-101 to AV-105, room installation and rack on AV-201, equipment on AV-301, RFP conformance and commissioning on AV-302, and open items on RFI-001 and RFI-002.

- **Presentation and display:** new 4K laser projector on the existing screen; City PC, guest HDMI / USB-C and wireless (ClickShare) sources at the Clerk workstation.
- **Cameras and broadcast:** two Q-SYS PTZ cameras (front and rear) with presets, and an Epiphan Pearl Mini that streams to the City's YouTube and Facebook accounts at the same time and records locally and to the City NAS.

- **Microphones and audio:** 12 wired goosenecks (10 dais, Clerk, podium), a 4-channel rechargeable wireless system, automatic mixing and feedback control, and eight ceiling loudspeakers in four zones: Zone A (audience north), Zone B (audience south), Zone D (podium area, without the podium microphone) and Zone C (over the dais, without the dais microphones).
- **Assistive listening:** Williams AV FM+ PRO system with seven rechargeable receivers.
- **Control:** one-touch Start Meeting and End Meeting on a 10.1" touch panel at the Clerk workstation, and a Mayor "Mute All" control.
- **Head end:** a new Strong 27U floor rack in the adjacent equipment room with the AV network switch, UPS, amplifier, wireless receiver, assistive listening transmitter and streaming appliance.

4. Equipment Furnished

Models match the TCT design set and BOM. Quantities marked * include a Third Coast Tech addition needed to meet the RFP: a 13th U859QL gooseneck for the ATW-T1407 desk stand transmitter (RFI-11), and two more ceiling loudspeakers for even audience coverage (RFI-22). Tags in brackets are the design set tags.

Qty	Manufacturer / Model	Description
1	Q-SYS NV-32-H (Core Capable)	Network video endpoint in Core Mode: audio DSP, AEC, control, 3-in / 2-out HDMI switching [NV32-001]
1	Q-SYS SLQCMS-NV32-P	Core Mode video streaming license, perpetual [CMS-001]
1	Q-SYS SL-DAN-32-P	Software Dante 32 x 32 license, perpetual [DAN-001]
1	Q-SYS NVM-302D	Mediacast network HDMI decoder at the projector [NVM-001]
1	Q-SYS TSC-101-G3 + TSC-710t-G3	10.1" PoE touch panel with table top mount, Clerk workstation [TSC-001, TST-001]
1	Q-SYS Axon C1	Single-gang networked controller, Mayor "Mute All" [C1-001]
1	Q-SYS SPA-QF60X4	4-channel network amplifier, 60 W per channel [SPA-001]
2	Q-SYS NC12X80	PTZ network camera, 12x optical, 80° field of view, SDI / HDMI out, PoE [NC-001, NC-002]
1	Panasonic PT-VMQ65BU	6,500-lumen 4K LCD laser projector, black [VMQ-001]
1	Barco ClickShare C-10 Gen2 - US version with 2 Buttons	Wireless presentation system, TAA, black [C10-001]

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Qty	Manufacturer / Model	Description
1	Epiphan Video Pearl Mini	Streaming, recording and switching appliance [PM-001], with 250 GB SD card [SD-001]
1	Blackmagic Design Micro Converter SDI to HDMI 3G with PSU	Rear camera SDI to Pearl Mini HDMI [CNV-001]
1	Sabrent CB-DB9P	USB to RS-232 service cable [USB-001]
13*	Audio-Technica U859QL	Cardioid condenser quick-mount gooseneck, 18.90" [U85-001 to U85-013]
12	Audio-Technica AT-8662	Microphone shock mount for dais and podium (one spare) [QM-001 to QM-012]
1	Audio-Technica AT8699R	Desk stand with programmable switch and LED status, Clerk [DS-001]
1	Audio-Technica ATW-1423/L	System 20 PRO: 4-channel receiver (ATW-R1440 with remote receiver unit), handheld, bodypack + lavalier [ATW-001]
1	Audio-Technica ATW-T1402	System 20 PRO handheld transmitter (second handheld) [HH-002]
1	Audio-Technica ATW-T1407	System 20 PRO desk stand transmitter [DST-001]
3	Shure ANI4IN-XLR	4-channel Dante mic / line interface: two under the dais (podium, pos 2-8) [ANI-001, ANI-002]; one in the rack for wireless receiver outputs 1-4 [ANI-003]
1	Shure ANI22-XLR	2-in / 2-out Dante interface under the dais east, pos 9-10 [A22-001]
1	Turtle TAV-MINEOLAMICRO	Mineola MICro 2-channel Dante mic interface under the dais at the Clerk end, pos 11 and Clerk [MIN-001]
8*	SoundTube CM62-EZ-II-WH	6.5" 2-way in-ceiling loudspeaker, white, 16-ohm setting [CM6-001 to CM6-008]
1	Williams AV FM 558 PRO D	FM+ PRO assistive listening package with Dante: T55 D transmitter, 4 R38 receivers, earphones, 2 neckloops, chargers, antenna, rack kit, ADA plaque [FM-001]
3	Williams AV PPA R38N	FM receiver (7 total) [R38-005 to R38-007]
3	Williams AV EAR022	Surround earphone [EAR-005 to EAR-007]
2	Williams Sound BATKT6	Dual drop-in charger kit with rechargeable batteries [CHG-001, CHG-002]
1	Netgear GSM4230UP-100NAS	M4250-26G4F-PoE++ AV managed switch, 24 PoE++ ports (US model; see section 20) [GSM-001]
1	Strong SR-FS-SYSTEM-DC-27U	Floor-standing rack system, 27U, itemized per Addendum No. 1, A10 [BRK-001]
1	W Box Technologies 0E-RCKMT2200	2,000 VA / 1,540 W line-interactive rack UPS, 8 outlets [UPS-001]

Qty	Manufacturer / Model	Description
Lot	Wire and materials	Projector mount, active optical HDMI, Cat6, SDI coax, mic and speaker cable, plates, shelves, blanks, labels, screen control relay interface and listed point-of-use surge protectors [LOT-001]

5. Project Management and Coordination

- **Project manager:** Third Coast Tech assigns one project manager as the single point of contact for the City's project manager, Yolanda Quiceno, City Clerk. The City Manager oversees the project (RFP, Project Management and Staffing).
- **Notice to Proceed:** No equipment is ordered and no billable work starts before written Notice to Proceed (RFP Exhibit B 3.2; Addendum No. 1, A6).
- **Kickoff:** a kickoff meeting confirms schedule, blackout dates, City IT contacts (Eola Technology), the post-award site survey and the open items on RFI-001.
- **Schedule:** the system is installed, tested, commissioned, documented and ready for use within 90 calendar days after Notice to Proceed. Lead times are confirmed at order; any risk to the 90 days is reported in writing right away (RFP Exhibit A).
- **Operations:** disruptive work is not scheduled on the first, third or fourth Tuesday of the month or on other blackout dates the City provides. Evening and weekend work only with prior written City approval.
- **Coordination:** Third Coast Tech coordinates the AV network, VLANs, remote access, firewall rules and recording storage with the City and Eola Technology, and coordinates any electrical work with the City.
- **Deliveries:** equipment ships to Third Coast Tech or to City Hall by arrangement with the City. Third Coast Tech protects and secures its tools, materials and equipment until acceptance (RFP Exhibit A).
- **Background checks:** Third Coast Tech will provide background check authorizations or warranties for its staff as required by RFP 5.8.6.
- **Progress and punch list:** weekly progress updates by email, and a punch list walk with the City before the mock meeting.
- **Communications:** during the solicitation, all communication goes only through the City Clerk, per the cone of silence (Addendum No. 2).

6. Design, Engineering and Submittals

- **Pre-design review and site verification:** included in the price as required by the RFP. A post-award survey verifies room dimensions, dais, pathways, power, the

equipment room and the existing screen (FV-1 to FV-8 on AV-201). Concealed conditions are reported in writing before work proceeds (RFP Exhibit B 1.5).

- **Existing infrastructure:** conduit, pathways, electrical service, network service, rack location, furnishings and cabling are reused only where Third Coast Tech verifies them as safe, code-compliant and compatible. The submittal lists each item kept and the basis for keeping it.
- **Drawings:** a single-line drawing of the new audio, video and control systems, and detailed fabrication, interface and cabling drawings in AutoCAD format with PDF copies (RFP Exhibit A, Deliverable A).
- **Product data:** manufacturer data sheets, lifecycle status, warranty, expected useful life and replacement availability for each new item (RFP, New System and Existing Site Conditions, item 5).
- **Network and security submittal:** VLANs, quality-of-service settings, multicast, ports, protocols, bandwidth, cloud services and remote-access tools, for City and Eola Technology approval.
- **Loudspeaker coverage:** the six-speaker layout will be verified with a coverage model at submittal. No acoustic modeling has been performed for this proposal.
- **Heat load and power:** rack heat load, ventilation and electrical requirements are confirmed for the equipment room (RFP Exhibit A).
- **Permits:** Third Coast Tech determines whether permits are required and obtains them (RFP Exhibit B 1.4).

7. Presentation and Display System

- **Projector:** a new Panasonic PT-VMQ65BU 4K laser projector replaces the existing projector, on a ceiling mount fixed to structure, about 12 feet from the screen (final position after survey).
- **Screen:** the existing motorized screen is kept if Third Coast Tech confirms its condition, size, surface, motor, controls and mounting are suitable (Addendum No. 1, A11). It is raised and lowered by the control system. If it is not suitable, a replacement is priced separately.
- **Sources:** at the Clerk workstation, City PC (HDMI), a guest HDMI tether with USB-C adapter for a presenter or resident device (Addendum No. 1, A12) and Barco ClickShare wireless presentation (Buttons plus AirPlay, Google Cast, Miracast and the ClickShare app).
- **Signal path:** sources switch in the NV-32-H and reach the projector over the AV network through the NVM-302D decoder (Q-SYS Mediacast, enabled by the Core Mode streaming license), at 1920 x 1080. This meets the RFP Full HD minimum. The HDMI inputs and the NV-32-H accept 4K sources, and the projector is 4K; if 4K to the

projector is wanted later, the projector can be fed over HDBaseT into its DIGITAL LINK input.

- **Dais visibility (base recommendation):** the screen is assumed to be on a side wall that the dais and audience can both see, with a camera and program preview on the Clerk touch panel. If the survey shows the dais cannot see the screen, Third Coast Tech recommends the 10-monitor alternate (section 22).

8. Cameras, Livestreaming and Recording

- **Cameras:** two Q-SYS NC12X80 PTZ cameras: a front camera at the dais end covering the podium, presenters, staff and audience, and a rear camera covering the dais, Mayor and Clerk. Final locations are recommended after survey (RFP Exhibit A).
- **Presets and automatic switching:** presets for each dais seat, the podium, the Clerk and wide shots. The control system recalls presets and switches cameras on the active microphone, using the Q-SYS-certified Epiphan Pearl plugin to select the Pearl Mini layout.
- **Livestreaming:** the Pearl Mini streams at 1920 x 1080 directly to YouTube Live and Facebook, at the same time when desired, using City-owned accounts and stream keys. Third Coast Tech will not create an account that it owns or controls (RFP Exhibit A). The stream reconnects on its own after a temporary internet loss.
- **Recording:** each meeting is recorded on the Pearl Mini (SD card) and each file is copied automatically to the City NAS as soon as the recording ends. With the completed stream on the City's YouTube channel, every meeting exists in three places. Recordings are MP4 files the City can export and post to its website.
- **Status:** streaming and recording status shows on the touch panel and on the Pearl Mini front panel.
- **Metadata:** meeting titles and descriptions are set in YouTube Studio and Facebook, or by Pearl Mini event settings.
- **Recurring charges:** none required. Optional Epiphan cloud services are not included.
- **Bandwidth:** about 15 Mbps of upload must be reserved for two 1080p streams.

9. Microphones, Audio Processing and Reinforcement

- **Wired microphones:** 12 Audio-Technica U859QL goosenecks per the RFP microphone table: podium (1), Councilmembers (2–5, 7–9), Mayor (6), City Attorney (10), City Manager (11) and City Clerk (12). Dais and podium microphones mount in AT-8662 shock mounts. The Clerk microphone uses an AT8699R desk stand with mute switch and LED.

- **Wireless microphones:** an Audio-Technica System 20 PRO (2.4 GHz, rechargeable) with one lavalier, two handhelds and one desk stand transmitter, all usable at the same time on a 4-channel receiver. ClickShare and any City Wi-Fi in the chambers are set to 5 GHz so they do not crowd the microphone band.
- **Interfaces:** microphones enter the system over Dante through two Shure ANI4IN-XLR and one ANI22-XLR under the dais (podium plus pos 2-10) and a Turtle Mineola MICro at the Clerk end (pos 11 and Clerk). The System 20 PRO receiver has analog XLR outputs only (no Dante model exists), so its four outputs feed the third ANI4IN-XLR on a rack shelf. All 16 interface inputs are used; adding a microphone later needs another interface.
- **Mute control:** the Mayor's Axon C1 mutes all microphones, including the podium, with status on its display. The Clerk mutes the podium and any microphone from the touch panel (RFP Dais and Podium).
- **Status indication:** microphone activity and mute status show on the Clerk touch panel and the Mayor control, and the Clerk desk stand has an LED. To give every seat its own mute button and LED, as the RFP requires, Third Coast Tech recommends either switched AT8699R desk stands at the 10 dais seats and podium, or ES925C18/FM3 flush-mount goosenecks with a touch-mute switch and LED in the base (section 20). Seat LEDs show the local switch; the Mayor "Mute All" status shows on the Mayor control and touch panel.
- **Processing:** automatic mixing, acoustic echo cancellation, feedback suppression and automatic level control, so staff do not need to ride levels while taking minutes (RFP Exhibit A).
- **Separate mixes:** audience reinforcement (Zones A and B, all microphones); podium area (Zone D, every microphone except the podium, so the podium microphone is not fed back into the loudspeaker above it); over the dais (Zone C, podium, wireless and program audio only - the dais microphones are left out because a single ceiling zone cannot remove each seat from its own feed); broadcast / recording; and assistive listening.
- **Loudspeakers:** eight SoundTube CM62-EZ-II-WH ceiling speakers on the 16-ohm setting, driven by a Q-SYS SPA-QF60X4 (60 W per channel into 4 to 16 ohms): Zone A three speakers (5.3 ohms), Zone B two (8 ohms), Zone D one (16 ohms), Zone C two (8 ohms). Each speaker receives 20 to 50 W against a 50 W rating, about 103 to 105 dB at 1 m, which is ample headroom for speech. Six speakers over the audience give even coverage at the 9-foot ceiling; the layout is verified with a coverage model at submittal.
- **Not included:** lobby, overflow, patio or exterior audio in the base scope (RFP Exhibit A).

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10. Assistive Listening System (ADA 219 / 706)

- **Technology:** Williams AV FM+ PRO D, 72–76 MHz FM with a Dante input from the Q-SYS system and a remote antenna in the chambers. An RF system is used in place of an induction loop, as allowed by the RFP.
- **Coverage and counts:** the RFP lists 88 audience seats. ADA 2010 Table 219.3 requires 4 receivers, 2 of them hearing-aid compatible. Third Coast Tech provides 7 rechargeable receivers (RFP minimum), earphones and 2 neckloops.
- **Operation:** receivers are stored and charged at the Clerk workstation. The transmitter carries the assistive listening mix whenever the system is on.
- **Signage and testing:** the ADA plaque is installed at the entry. Every receiver is tested in each seating area at commissioning.
- **Wi-Fi listening:** the FM+ transmitter can also stream to phones over Wi-Fi. This is enabled only if the City and Eola Technology approve use of the City Wi-Fi.
- **Ongoing charges:** none.

11. Control System and Automation

- **Primary interface:** a Q-SYS TSC-101-G3 touch panel at the Clerk workstation, designed for non-technical staff.
- **One-touch functions:** "Start Meeting" powers the projector and screen, unmutes microphones, recalls camera presets, and starts streaming and recording. "End Meeting" stops streaming and recording, mutes microphones and returns the room to standby.
- **Controls:** microphone mute and unmute, camera selection and presets, volume, source selection, display and screen control, streaming start and stop, recording, and video preview (RFP Control System).
- **Status shown:** live streaming, recording, microphone activity and active video source.
- **Preset modes:** Public Meeting; Workshop / Presentation; Recording and Streaming; Training / General Room Use; Room Off / Standby.
- **Automation:** automatic startup and shutdown sequencing, automatic return to standby, and optional automatic camera switching on the active microphone.
- **Security:** role-based passwords separate operator controls from administrator, configuration, firmware, network and security functions.
- **Remote diagnostics:** secure remote diagnostics by a method approved by the City and Eola Technology. Optional Q-SYS cloud monitoring is not included in the base.

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12. Equipment Rack, Network and Power

- **Rack:** a new Strong SR-FS-SYSTEM-DC-27U floor rack in the equipment room, with locking casters or another approved securing method, vent and blank panels, shelves and lacing bars (Addendum No. 1, A9 and A10). The existing shelving is not reused. If the City buys the rack itself, Third Coast Tech still confirms compatibility and assembles, installs, integrates, dresses, labels and tests it.
- **Existing equipment in the room:** Spectrum-owned or Spectrum-managed equipment and the telephone system equipment stay mounted on the wall where they are. They are not moved, disconnected or put in the new rack (Addendum No. 1, A7 and A9). Other City equipment may go in the rack with City approval; two rack units are reserved for it.
- **Network:** a dedicated Netgear M4250 AV switch carries one isolated AV VLAN with QoS, IGMP snooping and querier, and one uplink to the City network. Devices use unique non-default credentials, least-privilege access, encryption where supported, access logging, documented firmware practice and configuration backups. Vendor remote access can be revoked by the City.
- **Power and UPS:** rack equipment and all PoE devices (including the NV-32-H core) run from the UPS. The control system performs an orderly shutdown and a programmed recovery after an outage.
- **Surge protection:** listed surge protection at the rack (UPS) and listed point-of-use protectors at the projector and Clerk workstation, per RFP 5.8.9. A facility-level surge protector, if recommended, is identified separately for the City.

13. Cabling and Pathways

- All cable is new where required, plenum-rated where it passes through a plenum, and installed to the current National Electrical Code and manufacturer requirements (RFP 5.8.9).
- Network: Cat6, terminated RJ45, tested. Video: HDMI 2.0 patch cords, active optical HDMI from the Clerk workstation to the rack, and RG6 3G-SDI coax from the cameras. Audio: shielded microphone cable and 16-gauge speaker cable.
- Cable runs in existing conduit or pathways where verified, otherwise supported by J-hooks or D-rings to structure. Nothing is supported from the ceiling grid.
- Penetrations are fire-stopped with listed systems.
- Every cable has a machine-printed label at both ends with the room and cable ID from the design set, and service loops at devices and the rack.

- Third Coast Tech evaluates the equipment room and includes labeling, dressing, replacement, retermination and cable management of the AV cabling needed for a safe, serviceable installation (RFP; Addendum No. 1, A7).

14. Installation

- **Workmanship:** installation per manufacturer instructions and ANSI/AVIXA practice. The rack is built to ANSI/AVIXA F502.01 and labels follow F501.01.
- **Removal of existing AV:** existing AV equipment and abandoned AV cabling are removed and returned to the City for evaluation, surplus, recycling or disposal. Nothing is discarded or taken off City property without written authorization. A disposition inventory is provided (RFP; Addendum No. 1, A7).
- **Unidentified items:** wiring or equipment that cannot be identified stays in place until the City and its provider approve removal (Addendum No. 1, A7).
- **Dais and furnishings:** the rack, desk, dais and interior are modified only as reasonably needed for microphones, interfaces and cable. Finishes are protected, and any damage caused by Third Coast Tech is repaired.
- **Mounting:** cameras, projector and receiver units are mounted to structure or rated anchors. Ceiling speakers are supported independently of the ceiling grid.
- **Cleanup:** the Council Chambers are left clean, safe and usable for scheduled meetings at the end of each work day (RFP Exhibit A, J).

15. Programming

- Q-SYS design file: DSP, automatic mixing, AEC, mixes, camera control, presets, automatic camera switching, Pearl Mini control and status, projector and screen control, and power sequencing.
- Touch panel and Mayor control interfaces, as described in section 11.
- Pearl Mini layouts (camera 1, camera 2, content, camera with content), streaming destinations, recording and NAS upload, using City accounts.
- Dante routing, network switch configuration, and ClickShare and assistive listening setup.
- The City receives all project-specific source code, configuration files, backups, licenses and license-transfer information. The City has the perpetual right to use, maintain and modify them and may authorize another qualified integrator to do so (RFP Deliverables).

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16. Commissioning and Testing

Testing follows ANSI/AVIXA 10 and the checklist on design sheet AV-302. The City observes and signs off on test completion (RFP Exhibit A, C).

- All devices online; no network, Q-LAN or Dante errors over a one-hour run.
- Each of the 12 wired and 4 wireless microphones checked for level, mute and status; Mayor "Mute All" and Clerk podium mute verified.
- Gain before feedback at each seat, dais foldback, and a speech intelligibility (STIPA) reading recorded for the record.
- Every source shown on the projector at 1080p and 4K; ClickShare tested from Windows, macOS, iOS and Android.
- Camera presets and automatic switching verified.
- Simultaneous YouTube and Facebook stream at 1080p; internet disconnected and reconnection confirmed; status shown.
- Local and NAS recordings started, stopped and exported.
- All 7 assistive listening receivers tested in each seating area.
- UPS power-loss test: orderly shutdown and programmed recovery.
- Passwords, roles and remote access verified; configuration backups taken.

17. Training, Documentation and Turnover

- **Training (fixed price, Addendum No. 1, A15):** for about three City staff members: Operator training (3 hours), Administrator training (3 hours), Mock meeting (2 hours) and a follow-up session (2 hours), 10 hours total within the 16-hour allowance. The price includes preparation, materials and travel. An hourly rate for additional training is stated on the pricing form.
- **Written materials:** operating instructions and laminated quick-reference guides for the Clerk workstation.
- **Mock meeting:** after training the City runs a mock meeting and signs the System Acceptance Certificate (RFP Exhibit A, D).
- **First live meeting:** a qualified Third Coast Tech system engineer is on site for the first live City Council meeting on the new system: about 2 hours of pre-meeting checks, the meeting itself, and 1 hour after for shutdown and follow-up (RFP Exhibit A, I).
- **Documentation, within two weeks of final adjustments and training:** as-built drawings (AutoCAD and PDF), signal flow, rack elevations, cable schedule and labels, network and IP information (under City security controls), the equipment schedule with model and serial numbers, warranty and expected replacement life in Excel, configuration and programming files with backups, licenses, operating manuals,

warranty-claim procedures and the disposition inventory. Administrative credentials are turned over by secure transfer. One printed operations binder is included (RFP Deliverables).

- **Recurring costs:** no cloud subscription or recurring license is required for the base system.

18. Subcontractors

Third Coast Tech will self-perform the work. If a subcontractor is needed (for example a licensed electrician for work the City asks Third Coast Tech to include), it will be identified to the City in advance and used only with City approval. Third Coast Tech remains fully responsible for the work of any subcontractor.

19. City Responsibilities

- Written Notice to Proceed, blackout dates and the public meeting schedule.
- Access to the Council Chambers and equipment room during agreed hours, and a secure place to stage equipment.
- A dedicated 20 A circuit at the rack and receptacles at the projector and Clerk workstation where not already present, and any facility-level surge protection (unless added to Third Coast Tech's scope).
- Through Eola Technology: an uplink port, VLAN and firewall approvals, IP addresses, the NAS share for recordings, internet bandwidth for streaming, and approval of the remote-access method.
- Administrator access to the City YouTube channel (live-enabled) and Facebook Page for setting up stream keys.
- The City PC or laptop used at the Clerk workstation.
- Prompt review of submittals and answers to the open items on RFI-001 and RFI-002.
- Background check authorizations if the City performs the checks (RFP 5.8.6).
- A tax-exemption certificate for equipment purchases.

20. Assumptions and Clarifications

These assumptions and clarifications are submitted as the deviations, assumptions and clarifications the RFP asks proposers to identify (RFP Exhibit A; Proposal Requirements). They may affect scope, schedule or price if conditions differ. The open items on RFI-001 and RFI-002 give the full list with the assumption used for each.

- **Room and site:** no as-built drawings exist. The design uses the Addendum No. 1, A2 dimensions (29'-10" x 28'-6"), a 9'-0" lay-in ceiling with accessible plenum, the dais on the west wall with the front camera on the wall directly behind it, the podium in front of the dais between the two seating areas, the existing screen on the north wall, the projector at the center of the room facing north and the Clerk workstation at the south end of the dais. Concealed conditions found later are handled by written change order (RFP).
- **Equipment room:** adjacent to the chambers with space, cooling and a 20 A circuit for the rack. Cable runs are under 150 feet, through one sleeve or pathway.
- **Seating capacity:** 88 audience seats as stated in the RFP; assistive listening counts are based on this.
- **Existing screen:** kept per Addendum No. 1, A11, about 100 inches at 16:10, with a low-voltage control input. Third Coast Tech does not warrant the screen itself.
- **Projector video path:** Q-SYS states the Core Mode streaming license lets the NV-32-H send a Mediacast stream to NVM decoders, at up to 1080p30. Third Coast Tech will confirm this with Q-SYS before ordering; if it is not supported, the projector is fed over HDBaseT into its DIGITAL LINK input instead (RFI-06).
- **Network switch:** the quote and pick list show the European model (GSM4230UP-100EUS). The U.S. model GSM4230UP-100NAS will be supplied.
- **Microphone status at dais seats:** the quoted U859QL on AT-8662 flush shock mounts has no LED or switch at the seat. This scope assumes one of two upgrades is added before award to meet the RFP status requirement: switched AT8699R desk stands at the 10 dais seats and podium, or ES925C18/FM3 flush-mount goosenecks with touch-mute and LED (RFI-10).
- **Desk stand transmitter:** used as a portable wireless table position (for example a staff or Planning and Zoning presenter table).
- **Lighting:** existing lighting stays. Cameras are set up for the existing lighting (Addendum No. 1, A1).
- **City-purchased equipment:** if the City buys the rack or commodity equipment directly (RFP 11.2; Addendum No. 1, A10), Third Coast Tech provides specifications, confirms compatibility and installs, configures and tests it. Manufacturer warranties run to the City.
- **Work hours:** work is during normal business hours, plus evenings or weekends the City approves in advance.
- **Schedule start:** the 90-day period starts at written Notice to Proceed. Current lead times are expected to fit within it.
- **Taxes:** the City is tax-exempt. No sales tax is included.
- **Contract terms:** Third Coast Tech accepts the Sample Agreement (Exhibit B) and RFP sections 5.8.1 to 5.8.9, including no indemnification of the contractor, venue in

Orange County, no binding arbitration, payment within 45 days, and final invoice after a 30-day acceptance period without a material defect. No liquidated damages are assumed.

21. Exclusions

- Electrical work: new circuits, panels and facility-level surge protection, unless added by change order.
- Conduit, core drilling, trenching and structural work beyond the minor penetrations needed for AV cabling.
- Room lighting, dimming changes and acoustic treatment.
- Fire alarm work and integration.
- City network equipment, firewall, internet service, Spectrum equipment, telephone system and Wi-Fi.
- Painting and patching beyond touch-up at Third Coast Tech penetrations.
- Audio conferencing, Teams or Zoom hybrid meetings, telephone or VoIP, electronic voting and roll call, document camera, speaker timer, closed captioning and transcription, lobby, overflow and exterior audio, and video wall. These are not part of the base scope.
- Recurring cloud subscriptions (none required).
- Damage from lightning, utility surge, misuse or acts of nature, except to the extent caused or worsened by Third Coast Tech's design, installation, grounding, surge protection or programming (RFP 5.8.9).
- Manufacturer defects in equipment the City purchases directly. Installation, programming and interoperability of that equipment are still Third Coast Tech's responsibility.

22. Alternates (Priced Separately)

- **Alternate 1 – Dais confidence monitors (RFP alternate):** ten LG 19BA300 18.5" monitors, one at each dais seat, on low-profile VESA mounts, fed from the NV-32-H through an OREI UHDS-1016 1x16 HDMI splitter (6 spare outputs). The LG 19BA300 is HD (1366 x 768); if the City requires Full HD at the dais, a 22" Full HD LG monitor can be substituted. They show the presentation source. Includes installation and materials.
- **Alternate 2 – Second rechargeable lavalier (required RFP option):** an Audio-Technica ATW-T1401 bodypack with MT830cW lavalier, so five wireless microphones can be used at the same time. The base receiver is full at four transmitters and all 16

base interface inputs are used, so this alternate also includes a second Audio-Technica ATW-R1440 receiver (its ATW-RU14 receiver unit mounted on the east wall next to the first, linked to the base receiver) and a Turtle Mineola MICro Dante interface in the rack for its output. Receiver outputs 2–4 and one MICro input remain spare. Includes installation, cabling, network port, programming and testing.

- **Alternate 3 – Outdoor speakers:** two SoundTube SM500i-II-WX weather-resistant surface speakers on the exterior wall at a location set by the City, driven by a Q-SYS SPA-Qf 60x2 network amplifier in the rack (one speaker per 60 W channel, 4-ohm direct). The base amplifier has no free channel, so the second amplifier is part of this alternate. The outdoor mix, level and mute are controlled from the touch panel. Includes outdoor-rated speaker cable, wall penetration sealing, installation, programming and testing. The RFP excludes exterior and patio speakers from the base scope; this is offered only as a separate option.
- **Maintenance years 4 and 5:** optional years under RFP 5.8.7 (see section 23).

Other optional features listed in the RFP (quarterly maintenance, recorded training, cloud monitoring, captioning, document camera, hybrid meetings) are not offered unless shown on the pricing form.

23. Warranty and Service

- One (1) year warranty on installation labor, workmanship, programming and configuration. The RFP does not set one universal warranty term.
- Manufacturer warranties on all equipment, as listed per item in the equipment schedule and warranty submittal.
- Third Coast Tech will replace defective equipment it furnished at no cost to the City during the manufacturer warranty period, and manages manufacturer warranty claims, including for City-purchased equipment in the system.
- Warranty periods begin at the City's written final acceptance of the completed system.
- **Maintenance and support program (priced separately, RFP 5.8.7):** a three-year initial term with firm annual pricing for years 1–3 and optional years 4 and 5. It includes two preventive maintenance visits per year, an annual firmware, software and streaming settings review, unlimited telephone support 8:30 a.m. to 5:00 p.m. ET Monday to Friday, remote diagnostics, YouTube and Facebook streaming troubleshooting, removal, reinstallation and testing of repaired equipment, and meaningful diagnosis and corrective action beginning within four hours of a request received during regular business hours (remote support may satisfy this). After-hours rates, trip charges, escalation procedure, parts pricing and exclusions are on the pricing form.

First-Year Service. During the first year after acceptance, Third Coast Tech will correct any defect in installation, wiring, programming or configuration at no cost to the City, including the labor to diagnose and replace defective equipment. Service requests may be placed by phone at 1-800-828-9517 or by email, and each request is logged in Third Coast Tech's service ticketing system so the City has a record from first call to resolution.

How We Conduct Service. Third Coast Tech acknowledges every service request within one business day. Where the City allows remote access to the AV network, our technicians first diagnose the system remotely through Q-SYS, which often resolves programming and configuration issues the same day without a site visit. When on-site service is needed, a qualified Third Coast Tech technician is scheduled at a time that works around the City's operations, and problems that affect a scheduled public meeting are given priority. When equipment must be returned to the manufacturer, Third Coast Tech manages the claim and, where possible, provides a temporary replacement so the Council Chambers are not left without the system.

After Each Service Call. The technician tests the affected system, confirms operation with City staff, and documents the work performed. Any change to programming, settings or passwords is recorded and updated in the City's turnover documentation. Before the end of the first year, Third Coast Tech will offer a check-up visit to verify system operation and review any staff questions. Ongoing service and maintenance agreements are available after the labor warranty ends, and are optional.

Extended Warranty Pricing

- Year 1 - Included in proposal at no additional charge
- Year 2 - $ 2,746.27
- Year 3 - $ 2,746.27
- Year 4 - $ 4,394.03
- Year 5 - $ 8,238.81

24. Proposal Requirements

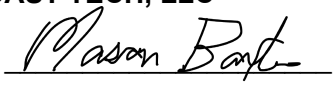
- **Submission:** electronically through DemandStar only, by Thursday, November 5, 2026, 3:00 p.m. EDT. Mailed, hand-delivered, emailed or faxed proposals are not accepted.
- **Validity:** the proposal stays valid for at least 120 days and is signed by an official authorized to bind Third Coast Tech.
- **Contents:**
- Letter of Intent with firm name, contact, email, mailing address and phone, signed by an authorized person.
- A dedicated section titled "Streaming Integration, User Interface Design, and System Architecture Strategy," covering YouTube Live integration, user interface and workflow,

automation, system architecture and right-sizing, network bandwidth, and the ongoing support model for streaming.

- Introduction, qualifications and experience, comparable projects, and three references from similar projects in the last five years (preferably government).
- Itemized cost proposal: equipment, installation, programming and configuration, testing, training, maintenance (years 1–3 firm, years 4–5 optional) and optional items, with hourly rates by classification and non-labor rates.
- Five-year lifecycle cost analysis; project schedule with City staff involvement; this scope of work as the statement of assumptions, deviations, exclusions and recurring costs.
- Exhibit C forms: Non-Discrimination Affidavit, Non-Debarment Affidavit, Drug-Free Workplace Certification and Non-Collusive Affidavit (notarized as required), the Bidder's Checklist, and acknowledgment of Addenda No. 1 and No. 2.

25. Acceptance

By signing below, the City of Belle Isle accepts this scope of work, including the assumptions, clarifications, exclusions and City responsibilities listed above, and Third Coast Tech agrees to perform the work as described.

CITY OF BELLE ISLE	**THIRD COAST TECH, LLC**
Signature: _____	Signature: 
Name: _____	Name: Mason Baxter
Title: _____	Title: President/Partner
Date: _____	Date: 11/04/2026

THIRD COAST TECH, LLC
Innovative AV Solutions for Every Space

Thank You for Your Time!

We appreciate the opportunity to visit your site and discuss your audio-visual needs. Third Coast Tech is a full-service AV integrator with offices in Michigan and Florida, specializing in designing, installing, and maintaining cutting-edge AV systems for commercial, educational, and municipal environments. At Third Coast Tech, we pride ourselves on providing state-of-the-art AV solutions tailored to each client's unique needs. Whether you're looking for a new video conferencing system, digital signage, Broadcast or a large-scale AV upgrade, we have the expertise to bring your vision to life.

Client References

References are available on request. Provided is a small snapshot of our partners:

Client: Lyon Township

Contact: John Dolan, Lyon Township Supervisor

Phone# 248-437-2240

Email JDolan@lyontwp.org

Scope of work – Install full township boardroom AV system with broadcasting capability

Client: Northfield Township

Contact: Jennifer Carlisle, Assistant to Township Manager

Phone# 734-449-2880 ext. 121

Email carlislej@northfieldmi.gov

Scope of work – Install full township boardroom AV system with broadcasting & recording

Client: Eaton County Board Of Commissioners

Contact: Jason Soldan, Technology Application Analyst

Phone# 517-543-4714

Email jsoldan@eatoncounty.org

Scope of work – Install full boardroom AV system with broadcasting & recording Very similar to Proposed solution

BIDDERS CHECKLIST

		Initial
1.	Letter of intent	MB
2.	Firm's official contact information and firm's billing information	MB
3.	Proposal Introduction, background, and objectives statement.	MB
4.	Qualifications and experience.	MB
5.	Proposed project approach.	MB
6.	Completely addressed each applicable requirement in Exhibit A, Project Objectives and Scope of Work, and identified all deviations, assumptions, exclusions, options, and recurring costs.	MB
7.	At least three (3) customer references enclosed (preferably governmental).	MB
8.	Completed Supplemental Forms in Exhibit C.	MB
9.	Information concerning system requirements and capabilities enclosed	MB
10.	All questions concerning implementation and support were answered and enclosed.	MB
11.	Components and Ongoing Support Costs break down all cost information for the entire system.	MB
12.	Complete and enclose "Bidder's Checklist."	MB

ATTACHMENT A

NON-DISCRIMINATION AFFIDAVIT

I, the undersigned, hereby duly sworn, depose and say that the organization or business entity represented herein shall not discriminate against any person in its operations, activities, or delivery of services under any agreement it enters into with the City of Belle Isle. The same shall affirmatively comply with all applicable provisions of federal, state, and local equal employment laws and shall not engage in or commit any discriminatory practice against any person based on race, age, religion, color, gender, sexual orientation, national origin, marital status, physical or mental disability, political affiliation or any other factor which cannot be lawfully used as a basis for service delivery.

It is the City of Belle Isle's policy that Minority/Women-Owned Business Enterprises (MWBE) shall have the maximum opportunity to participate in all contracts. The City of Belle Isle will accept MWBE certifications from Orange County and any State of Florida certification.

Further, the City of Belle Isle requires that all contracting agencies of the City, or any department thereof, acting for or on behalf of the City, shall include in all contracts and property contracts hereinafter executed or amended in any manner or as to any portion thereof, a provision obligating the Contractor not to unlawfully discriminate (as proscribed by federal, state, county, or other local law) on the basis of the fact or perception of a person's race, color, creed, religion, national origin, ancestry, age above the age of 21, sexual orientation, gender identity or expression, marital status, pregnancy, familial status, veterans status, political affiliation, or physical or mental disability and such person's association with members of classes protected under this chapter or in retaliation for or opposition to any practices forbidden under this chapter against any employee of, any City employee working with, or applicant for employment with such Contractor and shall require such contractor to include a similar provision in all subcontracts executed or amended there under.

By: Mason Baxter

Title: President

STATE OF FLORIDA
COUNTY OF Flagler

Sworn to and subscribed before me this 4th day of Nov., 2026, by Mason Baxter

Teresa A. Sandelin

Teresa A. Sandelin

Signature of Notary Public

TERESA A. SANDELIN
Notary Public
State of Florida
Comm# HH366309
Expires 4/10/2027

ATTACHMENT B
NON-DEBARMENT AFFIDAVIT

Mason Baxter Being first duly sworn, deposes and says that:

He/She is President/Partner of Third Coast Tea LLC. the Proposer ("Respondent") who has submitted the attached Proposal. By offering a submission to this RFP, the Respondent certifies and affirms that, to the best of his/her knowledge and belief, that:

1. The Respondent is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in any transaction of any Federal, state, or local agency; and
2. The Respondent has not within a three-year period preceding this Proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records; making false statements; or receiving stolen property; and
3. The Respondent is not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph 2 of this affidavit; and
4. The Respondent has not, within a three-year period preceding this Proposal, had one or more public transactions (Federal, State, or local) terminated for cause or default; and
5. The Respondent will submit a revised Debarment Affidavit immediately if the status changes.

If the Respondent cannot certify that he/she is not debarred, he/she shall provide an explanation with this submittal. An explanation will not necessarily result in the denial of participation in a contract. Failure to submit a debarment affidavit will disqualify the Contractor from being awarded any contract.

_____Check here if an explanation is attached to this affidavit.

By: Mason Baxter
Print Name: Mason Baxter
Title: President
Date: 11/4/2026

STATE OF FLORIDA
COUNTY OF Flagler

The foregoing Agreement was acknowledged before me this 004th day of November, 2026, by Mason Baxter, who has affirmed that he/she has been duly authorized to execute the above document. He/she is personally known to me or has produced Florida Diver License. as identification.

NOTARY'S SEAL:
NOTARY PUBLIC, STATE OF FLORIDA
Teresa A. Sandelin

Name of Acknowledger, typed, printed, or stamped

TERESA A. SANDELIN
Notary Public
State of Florida
Comm# HH366309
Expires 4/10/2027

ATTACHMENT C

DRUG-FREE WORKPLACE CERTIFICATION

Preference must be given to vendors submitting a certification with their bid/proposal certifying they have a drug-free workplace in accordance with Section 287.087, Florida Statutes. This requirement affects all public entities of the State and becomes effective January 1, 1991. The special condition is as follows:

IDENTICAL TIE BIDS - Preference shall be given to businesses with drug-free workplace programs. Whenever two or more bids that are equal with respect to price, quality, and service are received by the State or by any political subdivision for the procurement of commodities or contractual services, a bid received from a business that certifies that it has implemented a drug-free workplace program shall be given preference in the award process. Established procedures for processing tied bids will be followed if none of the tied vendors have a drug-free workplace program; a business shall:

1. Publish a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is prohibited in the workplace and specifying the actions that will be taken against employees for violations of such prohibition.

2. Inform employees about the dangers of drug abuse in the workplace, the business's policy of maintaining a drug-free workplace, any available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug abuse violations.

3. Give each employee engaged in providing the commodities or contractual services that are underbid a copy of the statement specified in subsection (1).

4. In the statement specified in subsection (1), notify the employees that, as a condition of working on the commodities or contractual services that are underbid, the employee will abide by the terms of the statement and will notify the employer of any conviction of, or plea of guilty or nolo contendere to, any violation of chapter 893 or any controlled substance law of the United States or any state, for a violation occurring in the workplace no later than five (5) days after such conviction.

5. Impose a sanction on, or require the satisfactory participation in a drug abuse assistance or rehabilitation program if such is available in the employee's community, on any employee who is so convicted.

6. Make a good faith effort to continue to maintain a drug-free workplace through implementation of this Section.

As the person authorized to sign the statement, I certify that this firm complies fully with the above requirements.

Third Coast Tech, LLC.
COMPANY NAME

VENDOR'S SIGNATURE Jason Bath

Must be executed and returned with the attached Proposal to be considered.

ATTACHMENT D

NON-COLLUSIVE AFFIDAVIT

State of Florida

County of Flagler

Mason Baxter being first duly sworn, deposes and says that:

(1) He/she is the President / Partner, (Owner, Partner, Officer, Representative or Agent) of Third Coast Tech LLC. The Proposer that has submitted the attached Proposal;

(2) He/she is fully informed respecting the preparation and contents of the attached Proposal and all pertinent circumstances respecting such Proposal;

(3) Such Proposal is genuine and is not a collusive or sham Proposal;

(4) Neither the said Proposer nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, have in any way colluded, conspired, connived or agreed, directly or indirectly, with any other Proposer, firm, or person to submit a collusive or sham Proposal in connection with the Work for which the attached Proposal has been submitted; or to refrain from proposing in connection with such Work; or have in any manner, directly or indirectly, sought by Agreement or collusion, or communication, or conference with any Proposer, firm, or person to fix the price or prices in the attached Proposal or of any other Proposer, or to fix any overhead, profit, or cost elements of the Proposal price or the Proposal price of any other Proposer, or to secure trough any collusion, conspiracy, connivance, or unlawful Agreement any advantage against (Recipient), or any person interested in the proposed Work;

(5) The price or prices quoted in the attached Proposal are fair and proper and are not tainted by any collusion, conspiracy, connivance, or unlawful Agreement on the part of the Proposer or any other of its agents, representatives, owners, employees, or parties in interest, including this affiant.

By: Mason Baxter
Title: President
Company: Third Coast Tech LLC.

STATE OF FLORIDA
COUNTY OF Flagler

Sworn, to and subscribed before me this 4th day of November, 2026,

By Teresa A. Sandelin
Signature of Notary Public Teresa A. Sandelin.

TERESA A. SANDELIN
Notary Public
State of Florida
Comm# HH366309
Expires 4/10/2027

PROPOSAL

Audio/visual System for the Council Chambers - City of Belle Isle

City of Belle Isle
1600 Nela Avenue
Belle Isle, Florida 32809 United States
407-851-7730

Revision: 0
Modified: 11/5/2026

Presented By:

Third Coast Tech, LLC.

4514 Pontiac Lake Rd
Waterford, MI 48328 United States
www.thirdcoasttech.com

THIRD COAST TECH



1 **Barco Commercial ClickShare C-10 Gen2 - US version with 2 Buttons** $1,830.91

Make conducting team meetings in your office's conference room more intuitive and incorporate both in-person and virtual participants, using the second-generation version of the Barco ClickShare C-10 base unit and button. This conference system features full bring-your-own-device compatibility for Windows or Mac operating systems and extends to laptops, tablets, and phones using it's upgraded USB 3.0 technology. Screen sharing and control can be achieved via the button or software application



1 **Panasonic PT-VMQ65BU** $5,215.60

6500 lm 4K Laser Projector



1 **QSC NV-32-H (Core Capable)** $4,629.98 *

The NV-32-H (Core Capable) is a multipurpose, software-configurable video endpoint native to the Q-SYS Ecosystem, offering two distinct operating modes to choose between, based on the needs of the application. Core Mode transforms the device into a fully integrated Q-SYS processor with local HDMI switching capabilities. Peripheral Mode allows multi-stream video encoding or decoding for network-based HDMI video distribution. Like all Q-SYS devices, the NV-32-H (Core Capable) offers native integration and control, simplifying setup, configuration and firmware management while eliminating the need for advanced programming knowledge.

1 QSC SLQCMS-NV32-P

Q-SYS NV-32-H Core Mode Video Streaming Software License, Perpetual



1 **QSC NVM-302D** $1,169.60

Q-SYS native video decoder. Mediacast AV routing paradigm enables high-quality, network-efficient video distribution at scale. Supports resolutions up to 4K60 4:4:4 RS-232 and IR connectivity for third
party device control. AV Bridging via USB-C (supported in a future firmware update).



1 **QSC SL-DAN-32-P** $825.97

Q-SYS Software-based Dante 32x32 Channel License, Perpetual

* Price Includes Accessories



1 **QSC TSC-101-G3** $3,188.55 *

The Q-SYS TSC Series Gen 3 is a high-performance network touch screen controller native to Q-SYS. Available in three sizes (5", 7", 10"), these PoE-capable (power over Ethernet) devices support a wide range of applications needing a fully customizable user control interface (UCI). Like all Q-SYS products, the TSC Series Gen 3 integrates seamlessly into a system design and takes full advantage of drag-and-drop integration and robust control engine within Q-SYS to provide users with intuitive AV controls for any space.



1 QSC TSC-710t-G3

Table Top Mounting Accessory For Tsc-70-G3 And Tsc-101-G3

1 **TCT Lot - Wire & Materials** $449.98

Miscellaneous hardware.



1 **Time Machines Dual Sided POE Presentation Timer Clock** $574.80

Precision Digital PoE Clock 4″ x 4 Digit Double-Sided Display – RGB

Video system Total	**$17,885.39**

* Price Includes Accessories



1 **Audio Technica AT8699R** $144.30

Quick-mount plug-in desk stand with user-programmable control switch (touch on/off, touch to talk, touch to mute) and LED micstatus indicator. 3-pin XLRF-type in, 3-pin XLRM-type out.



1 **Audio-Technica ATW-1423/L** $1,072.89

System 20 Digital Wireless System includes one ATW-R1440 4-channel receiver, one ATW-T1402 handheld microphone transmitter, one ATW-T1401 body-pack transmitter, and one MT830cW lavalier microphone.



1 **Audio-Technica ATW-T1402** $262.99

System 20 PRO Handheld Microphone Transmitter



1 **Audio-Technica ATW-T1407** $344.90

System 20 PRO Desk Stand Transmitter



12 **Audio-Technica U859QL** $2,321.28 *

Cardioid Condenser Microphone



12 Audio-Technica AT-8662
Microphone Shock Mount

1 **Netgear GSM4230UP-100NAS** $3,400.80

Switching engineered for 1G AV over IP with rear-facing ports ensuring a clean integration in AV racks. Pre-configured for out of the box functionality!



1 **QSC Axon C1** $664.65

The Attero Tech Axon C1 is an assignable control solution for networked AV systems. The C1 features a single-gang, Decora in-wall design with an OLED display and rotary encoder for simple AV system control of volume, mute and preset recall. The C1 integrates into the Q-SYS via Extension, removing the need for custom programming during integration. Given its flexible nature, the C1 is capable of controlling virtually any Ethernet-based, third-party audio DSP or AV equipment.

* Price Includes Accessories



1 **QSC SPA-QF60X4** $1,564.84

The Q-SYS SPA-Qf 60x4 network amplifier continues the Q-SYS Platform evolution of pairing centralized Core OS processing with expanding endpoint utility. With available GPIO for control, two flex channels (either mic/line inputs or line outputs), and 60 W per channel, the Q-SYS SPA-Qf 60x4 (four-channel) provides the utility to centralize your processors connectivity across more spaces, all within a trusted native Q-SYS network amplifier.



1 **Shure ANI22-XLR** $665.60

Converts up to four line/mic analog signals onto a Dante network for easy audio routing and browser-based control.



3 **Shure ANI4IN-XLR** $1,996.80

Converts up to four line/mic analog signals onto a Dante network for easy audio routing and browser-based control.



8 **SoundTube CM62-EZ-II-WH** $1,351.68

The next generation version of the CM62-EZ with improved and additional features. One 6.5 in (165 mm) treated fiber woofer with cloth surround and one 1.0 in (25.4 mm) silk dome tweeter. Easy-access, six-position tap switch for 25/70.7/100-volt and 16 ohm transformer bypass position allows for easy ordering, stocking and installation. Reduced amplification costs with maximum efficiency including 90 dB sensitivity and 16-ohm impedance. Superior voice intelligibility with a 10 kHz coverage angle of 80° (Independently verified). Incorporates a painted steel grille for lasting durability.

1 **TCT Lot - Wire & Materials** $374.98

Miscellaneous hardware.



1 **Turtle TAV-MINEOLAMICRO** $389.03

Mineola MICro. Dual XLR input to Dante with mic preamps, phantom power, networked API, and built in DSP.

Audio System Total	**$14,554.74**

* Price Includes Accessories

	1	**TCT Lot - Wire & Materials** Miscellaneous hardware.	$75.00
	3	**Williams AV EAR022** Surround Earphone. Hangs on outside of ear. Excellent sound quality. 32 , mono. Hearing loss rating: mild and low gain. 0.04 lbs.	$74.22
	1	**Williams AV FM 558 PRO D** The FM 558 PRO system package is a complete turnkey solution includes 4 PPA R38 receivers and an FM+ D transmitter for both FM and Wi-Fi transmission from the same box. The PRO bundle includes Dante, coax cable, and rack panel kit for professional installation. This system features the cutting edge PPA T55 transmitter (replacing the T45 FM transmitter) with multiple digital audio input options and an OLED display with easy-to manage navigation, and network control features. Each The FM R38 is a multi-channel FM receiver with a high-resolution OLED screen. The receiver comes with earphones and batteries, but is otherwise identical to the PPA R38. The R38 offers a quick view of receiver status and immediate entry to all user settings. On-screen channel selection with easy access to 17 pre-set, wide-band frequencies (72-76 MHz). The system is expandable, accommodating any number of listeners	$2,840.67
	3	**Williams AV PPA R38N** FM receiver, added to reach 48 receivers	$609.00
	2	**Williams Sound BATKT6** 3 Volt Dual Drop in Charger Kit with CHG 3502 and two (2) AA Bat 026-2 batteries. 7" x 5" x 2-1/16". 1.3 lbs. For use with: PLR BP1 Loop receiver PPA R37 FM receiver PPA R38 FM receiver PPA T46 FM transmitter WIR RX22-4 Infrared receiver	$223.36

Assistive Listening and Accessibility Total	**$3,822.25**

* Price Includes Accessories



1 **Blackmagic Design MICRO CONVERTER SDI TO HDMI 3G PSU** $96.75

Power supply unit for Micro Converter SDI to HDMI 3G



1 **Epiphan Video Pearl Mini** $3,784.96 *

Record, stream and switch up to three full HD video inputs from HDMI™, SDI, and USB sources. Epiphan Pearl Mini™ takes your video production to the next level.



1 Sabrent CB-DB9P

USB 2.0 to Serial (9 Pin) DB 9 RS 232 Converter Cable, Prolific Chipset, HEXNUTS, [Windows 11/10/8.1/8/7/VISTA/XP, Mac OS X 10.6 and Above] 2.5 Feet (CB-DB9P)



1 TCT SD Card

250 GB SD Card



2 **QSC NC12X80** $7,985.52

12x optical zoom — Covers medium to large conference rooms; maintains full-resolution image quality at distance without digital zoom degradation.
Native Q-SYS integration — Managed in Q-SYS Designer; presets, auto-tracking, and control integrated with the AV system without a separate controller.
HDMI and USB output — Sends video locally to a display via HDMI and to UC platforms via USB simultaneously.
Auto-tracking with VisionSuite — Compatible with Q-SYS VisionSuite AI for presenter auto-framing and camera switching in multi-camera environments.
PTZ-CMB1 and PTZ-WMB1 mount accessories — Optional brackets for ceiling or wall installation with cable management.

1 **TCT Lot - Wire & Materials** $224.99

Miscellaneous hardware.

Broadcast Total	**$12,092.22**

* Price Includes Accessories

Equipement Rack



1 **Strong SR-FS-SYSTEM-DC-27U** $1,104.99

This Strong FS Series Rack System ships fully assembled with many of the most popular accessories preinstalled including DC fans, vents, shelves, and side panels so setup is fast and easy on the day of the job. Plus, its narrow enough to fit in tight spaces. Using an active DC cooling system that features vents in the bottom and high-flow DC fans in the top, this rack keeps your equipment cool and reliable. Our nearly-noiseless DC fans are much quieter than other brands! To top it all off, this rack was created to look beautiful in any space, boasting a smoked glass door and top-to-bottom powder coat finish.



1 **W Box Technologies 0E-RCKMT2200** $962.08

The 0E-RCKMT2200 Uninterruptable Power Supply (UPS) is ideal for servers, telecom, network, and security equipment. With 2,000VA and 1540 Watts of capacity, the 0E-RCKMT2200 UPS protects equipment from blackouts, brown outs, spikes, and surges.

Equipement Rack Total **$2,067.07**

Optional- Deis Monitors



10 **TCT 18'' MONITOR** $1,950.00

18'' low profile monitor



1 **TCT HDMI Splitter** $130.00

HDMI Splitter

1 **TCT Lot - Wire & Materials** $374.98

Miscellaneous hardware.

Optional- Deis Monitors Total **$2,454.98**

* Price Includes Accessories

Optional- Outdoor Speakers



2	**SoundTube SM500i-II-WX** 5-1/4" weather-resistant, surface-mount commercial speaker (White)	$708.90

Optional- Outdoor Speakers Total **$708.90**

Optional- Microphone



1	**Audio-Technica ATW-R1440** System 20 PRO 4-channel receiver.	$599.71



1	**Audio-Technica ATW-T1401** System 20 PRO Body-Pack Transmitter	$244.80



1	**Audio-Technica MT830cW** MT830c miniature omnidirectional condenser lavalier microphone. Terminated with cW-style locking 4-pin connector for use with cW-style body-pack transmitter. Includes AT8420 clothing clip and AT8130 windscreens.	$106.34



1	**Turtle TAV-MINEOLAMICRO** Mineola MICro. Dual XLR input to Dante with mic preamps, phantom power, networked API, and built in DSP.	$389.03

Optional- Microphone Total **$1,339.88**

Project Subtotal: **$54,925.43**

* Price Includes Accessories

PROJECT SUMMARY

Equipment:	$54,925.43
Labor:	$13,914.32
Grand Total:	**$68,839.75**

Client: **Yolanda Quiceno** **Date:**



11/04/2026

Contractor: **Third Coast Tech, LLC.** **Date:**

COUNCIL CHAMBERS AV MODERNIZATION - COVER AND INDEX

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | RFP 2026-06 proposal design. Proposal drawings: final AutoCAD shop and as-built drawings follow award (RFP Deliverable A). Open items: RFI-001.

SHEET INDEX

Sheet	Title / use
AV-001	cover, index, basis of design
AV-100	concept flow - video, streaming, control
AV-110	concept flow - audio, ALS, network, power
AV-101	presentation and display
AV-102	cameras and broadcast
AV-103	microphones
AV-104	audio, loudspeakers, ALS
AV-105	network and power
AV-201	room installation and rack
AV-301	equipment schedule
AV-302	RFP conformance and commissioning
RFI-001	open items
RFI-002	open items cont.

SPACE MATRIX

Space	System	Line drawings	Install	Notes
Council Chambers	Presentation, projection, cameras, mics, reinforcement, ALS, control	AV-101..104	AV-201	29'-10" x 28'-6", 9' clg **(RFI-01)**
Clerk workstation (in chambers)	NV32-001 core, TSC-001, sources, ClickShare	AV-101, AV-103	AV-201	Location **RFI-02**
Equipment room (adjacent)	BRK-001 rack: network, UPS, amp, wireless, ALS, Pearl Mini	AV-102..105	AV-201	**FV-3**
Lobby / patio / exterior	None - excluded from base scope (RFP)	-	-	Option O5 not recommended

SYSTEM DESCRIPTION

A complete new, turnkey Q-SYS system for the Belle Isle Council Chambers. A Q-SYS NV-32-H in Core Mode at the Clerk workstation is the processor: audio DSP with automatic mixing and feedback control, HDMI switching of the City PC, guest HDMI / USB-C and Barco ClickShare, camera control and the one-touch Start / End Meeting logic on a 10.1" TSC-101-G3. Twelve Audio-Technica U859QL goosenecks (10 dais, Clerk, podium) and a 4-channel System 20 PRO wireless set (lavalier, two handhelds, desk stand) enter the system over Dante. A Q-SYS SPA-Qf 60x4 drives eight SoundTube ceiling speakers in four zones (audience north, audience south, podium area, dais). Two Q-SYS NC-12x80 PTZ cameras (front and rear) and the presentation feed go to an Epiphan Pearl Mini, which streams simultaneously to the City YouTube and Facebook accounts and records locally and to the City NAS. A new Panasonic PT-VMQ65BU 4K laser projector, fed by a Q-SYS NVM-302D, uses the retained motorized screen. A Williams AV FM+ PRO D system provides assistive listening (7 receivers). Network gear, UPS and processing sit in a new Strong 27U floor rack in the adjacent equipment room.

BASIS OF DESIGN - DOCUMENTS

Document	Date	Used for
RFP 2026-06 Modernizing the Audiovisual System for the Council Chambers (31 pp.)	10/01/2026	Scope, requirements, mic table, deliverables
RFP 2026-06 Scope Highlights (8 pp.)	10/01/2026	Summary, exclusions, scoring
Addendum No. 1 - Q&A A1-A16 (5 pp.)	10/27/2026	Room size, rack, screen reuse, USB-C, training, IT closet
Addendum No. 2 - Cone of silence, purchasing (1 p.)	10/27/2026	No US-made requirement
TCT quote TCT-2441 rev 0 (10 pp.)	11/04/2026	Equipment, quantities, options
TCT pick list TCT-2441 rev 0 (2 pp.)	11/04/2026	Manufacturer part numbers

QUOTE RECONCILIATION (TCT-2441 REV 0 VS RFP)

Quote line	Item	Status	RFI
5-10	Video: ClickShare, projector, NV-32-H + licenses, NVM-302D, TSC-101-G3	MATCH	**RFI-06**
12-16	Desk stand, ATW-1423/L, ATW-T1402, ATW-T1407, 12 U859QL + 12 AT-8662	MATCH	**RFI-10, RFI-11**
17	Netgear GSM4230UP-100EUS is the Europe SKU	CHANGED	**RFI-07**
18-24	Axon C1, SPA-QF60X4, ANI22-XLR + 3 ANI4IN-XLR (one for wireless), 6 CM62-EZ-II, MICro	MATCH	-
A5	2 more CM62-EZ-II for even audience coverage (6 audience + 2 dais)	ADDED	**RFI-22**
A2	U859QL for ATW-T1407 desk stand transmitter	ADDED	**RFI-11**
25-29	FM 558 PRO D + 3 R38N, 3 EAR022, 2 BATKT6 = 7 receivers	MATCH	**RFI-21**
30-33	BMD converter w/ PSU, Pearl Mini + SD + USB-serial, 2 NC12X80	MATCH	**RFI-08**
34-35	Strong SR-FS-SYSTEM-DC-27U rack, W Box 0E-RCKMT2200 UPS	MATCH	**RFI-13, RFI-14**
O1-O4	Option - 10 LG 19BA300 dais monitors + OREI UHDS-1016 splitter (RFP alternate)	CHANGED	**RFI-05, RFI-19**
A4	Option - 2nd lavalier ("shall be priced") + 2nd ATW-R1440 + 2nd MICro (A4b, A4c)	ADDED	**RFI-04**
O5-O6	Option - outdoor speakers; needs SPA-Qf 60x2 (A6). RFP excludes exterior	NOTE	**RFI-20**
1-4	Labor; line 4 undescribed; training / docs / maintenance not itemized	NOTE	**RFI-20**
Tax	Sales tax $130.25 shown; City is tax-exempt (RFP 11.2)	NOTE	**RFI-20**
-	Base dais confidence-monitor recommendation required in base	NOTE	**RFI-05**
-	Surge protection on all paths (RFP 5.8.9)	NOTE	**RFI-09**

Counts: 16 rows - MATCH 7, CHANGED 2, ADDED 3, NOTE 4. A-lines are TCT adds needed for RFP compliance and must be added to the quote before submittal.

GENERAL NOTES

1. All AV equipment new, current production, manufacturer supported. No existing AV equipment reused, except the motorized screen if found suitable (Add. 1 A11, **RFI-12).**
2. No City drawings exist. Plan, room size and device locations are TCT assumptions to be field verified **(FV-1..8)** after award.
3. Removed City AV equipment is returned to the City with a disposition inventory; nothing leaves City property without written authorization (RFP).
4. Network design, VLANs, remote access and NAS storage are coordinated with and approved by the City and Eola Technology.
5. Work in the equipment room is limited to AV equipment and cabling; Spectrum and phone equipment remain on the wall (A7, A9).
6. Lighting is not in scope; cameras set up for existing lighting (Add. 1 A1).
7. Installation work is not scheduled on the 1st, 3rd or 4th Tuesday; 90 calendar days from Notice to Proceed.
8. Cable labels per ANSI/AVIXA F501.01; rack per F502.01; verification per ANSI/AVIXA 10 (AV-302).

ABBREVIATIONS

AEC acoustic echo cancellation; AFF above finished floor; ALS assistive listening system; AOC active optical cable; C ceiling; D desk; FL floor; FV field verify; GPIO general purpose I/O; HAC hearing-aid compatible; LV low voltage; N new; E existing; NAS network attached storage; PoE power over Ethernet; RTMPS secure real-time messaging protocol; SPD surge protective device; TBV to be verified; UCI user control interface; UPS uninterruptible power supply; W wall.

THIRD COAST TECH

Proj # : TCT-2441

Third Coast Tech, LLC
3485 Steel Rail Drive, Ste 101
Bunnell, FL 32110
1-800-828-9517

WIP - 11/04/2026

WORK IN PROGRESS - NOT FOR CONSTRUCTION

PROPOSAL DESIGN - PENDING SITE SURVEY AND RFI RESPONSES. NOT FOR CONSTRUCTION.

Client:
City of Belle Isle, FL

Project:
Council Chambers AV Modernization

Room:
Council Chambers + equipment room

Site:
Belle Isle City Hall, 1600 Nela Avenue, Belle Isle, FL 32809

Basis of design:
RFP 2026-06 (10/01/2026), Highlights, Addenda 1 and 2 (10/27/2026), TCT quote TCT-2441 rev 0 and pick list (11/04/2026). No City drawings exist; room per Addendum 1 A2 (RFI-01).

Drawn	**TCT Engineering**
Date	**11/04/2026**
Scale	**As noted**
Sheet size	**ARCH D 24x36**

AV-001 Cover

Sheet index, space matrix, system description, basis of design and quote reconciliation.

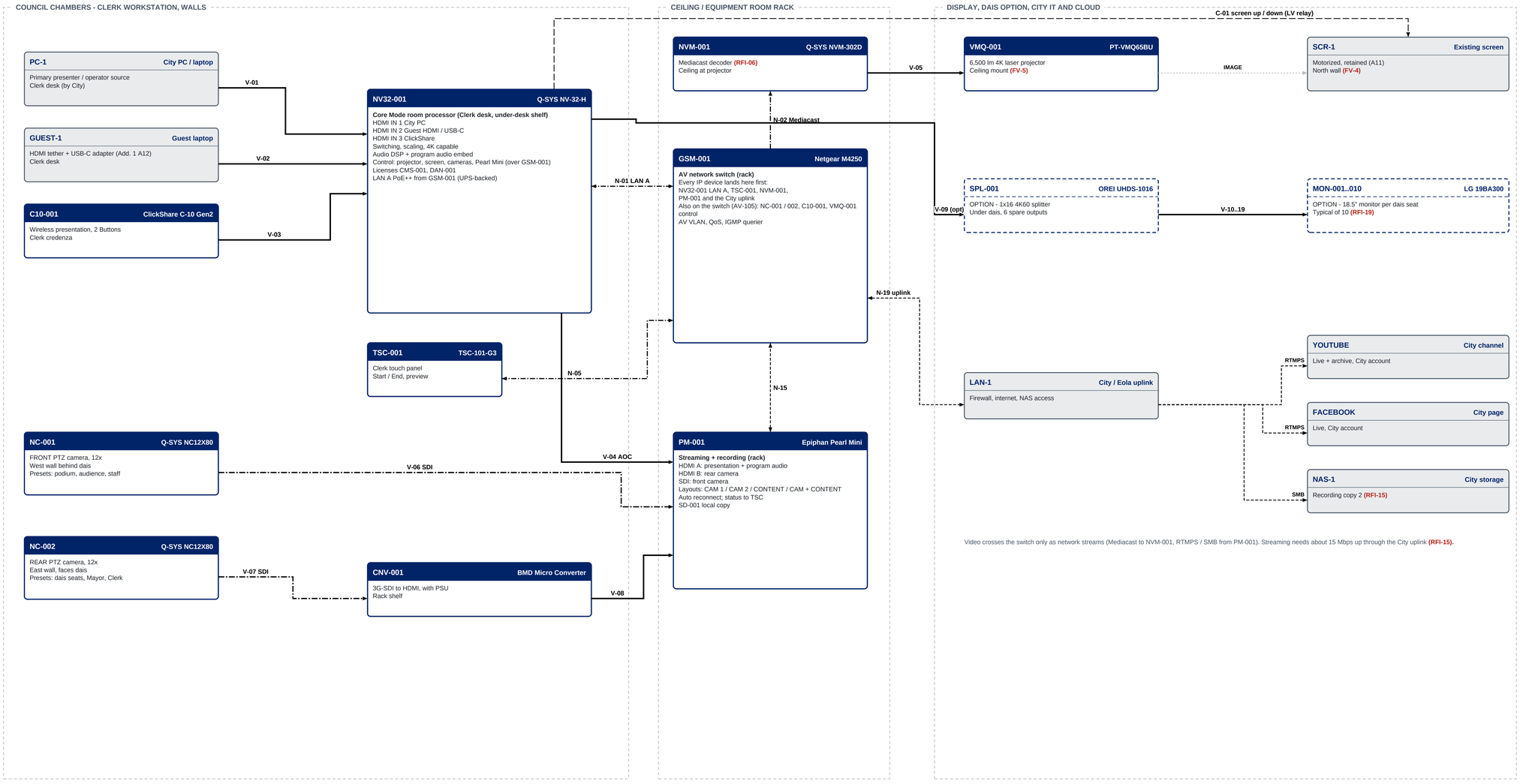
AV-001 1/13

SYSTEM CONCEPT FLOW - VIDEO, CAMERAS, STREAMING AND CONTROL

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | Concept flow diagram, NTS. Signal flows left to right; every connection drawn. All network traffic passes through the AV switch GSM-001. Port-level wiring and cable schedules: AV-101, AV-102, AV-105.

1 - CONCEPT FLOW - VIDEO AND BROADCAST

NTS. Box = device (tag, model, role, location). Dashed box = option; grey = by City / existing. Double arrow = two-way network link.



HOW TO READ

1. Concept sheets show what connects to what. Each line is one connection, drawn device to device, with its cable ID where a physical cable exists (V-, N-, C-). The same IDs appear on the port-level sheets and cable schedules.
2. Every network device (NV32-001, TSC-001, NVM-001, PM-001, cameras, ClickShare, projector) connects to the AV switch GSM-001; nothing networked plugs straight into NV32-001. Physical Cat6 runs are on AV-105.
3. Box locations are assumed until the post-award survey (FV-1..8, RFI-02).

LEGEND

- HDMI video (V-)
- SDI video (V-)
- Ethernet with PoE (N-)
- Ethernet / Q-LAN (N-)
- Control, RS-232 (C-)
- N-02 TAG PORT — Continuation flag: cable picks up at the named tag and port
- RFI-xx — Open item, RFI-001
- TCT equipment: navy header. By others: gray.

Blocks: header = mfr | model; rows = port - signal - connector, inputs left, outputs right; footer = IN | tag | OUT. Codes: DVID HDMI; DATA Ethernet/USB; POE, POE+, POE++ powered Ethernet; CTRL RS-232/IR/GPIO; AUDIO analog; DAUD digital; SPKR speaker; VID analog video; RF coax. All devices new (N).

THIRD COAST TECH

Proj # : TCT-2441

Third Coast Tech, LLC
3485 Steel Rail Drive, Ste 101
Bunnell, FL 32110
1-800-828-9517

WIP - 11/04/2026

WORK IN PROGRESS - NOT FOR CONSTRUCTION

PROPOSAL DESIGN - PENDING SITE SURVEY AND RFI RESPONSES. NOT FOR CONSTRUCTION.

Client: **City of Belle Isle, FL**

Project: **Council Chambers AV Modernization**

Room: **Council Chambers + equipment room**

Site: **Belle Isle City Hall, 1600 Nela Avenue, Belle Isle, FL 32809**

Basis of design: **RFP 2026-06 (10/01/2026), Highlights, Addenda 1 and 2 (10/27/2026), TCT quote TCT-2441 rev 0 and pick list (11/04/2026). No City drawings exist; room per Addendum 1 A2 (RFI-01).**

Drawn	**TCT Engineering**
Date	**11/04/2026**
Scale	**As noted**
Sheet size	**ARCH D 24x36**

AV-100 Concept - Video

Concept flow: presentation, projection, cameras, streaming, recording and control. Lines run device to device; network devices meet at GSM-001.

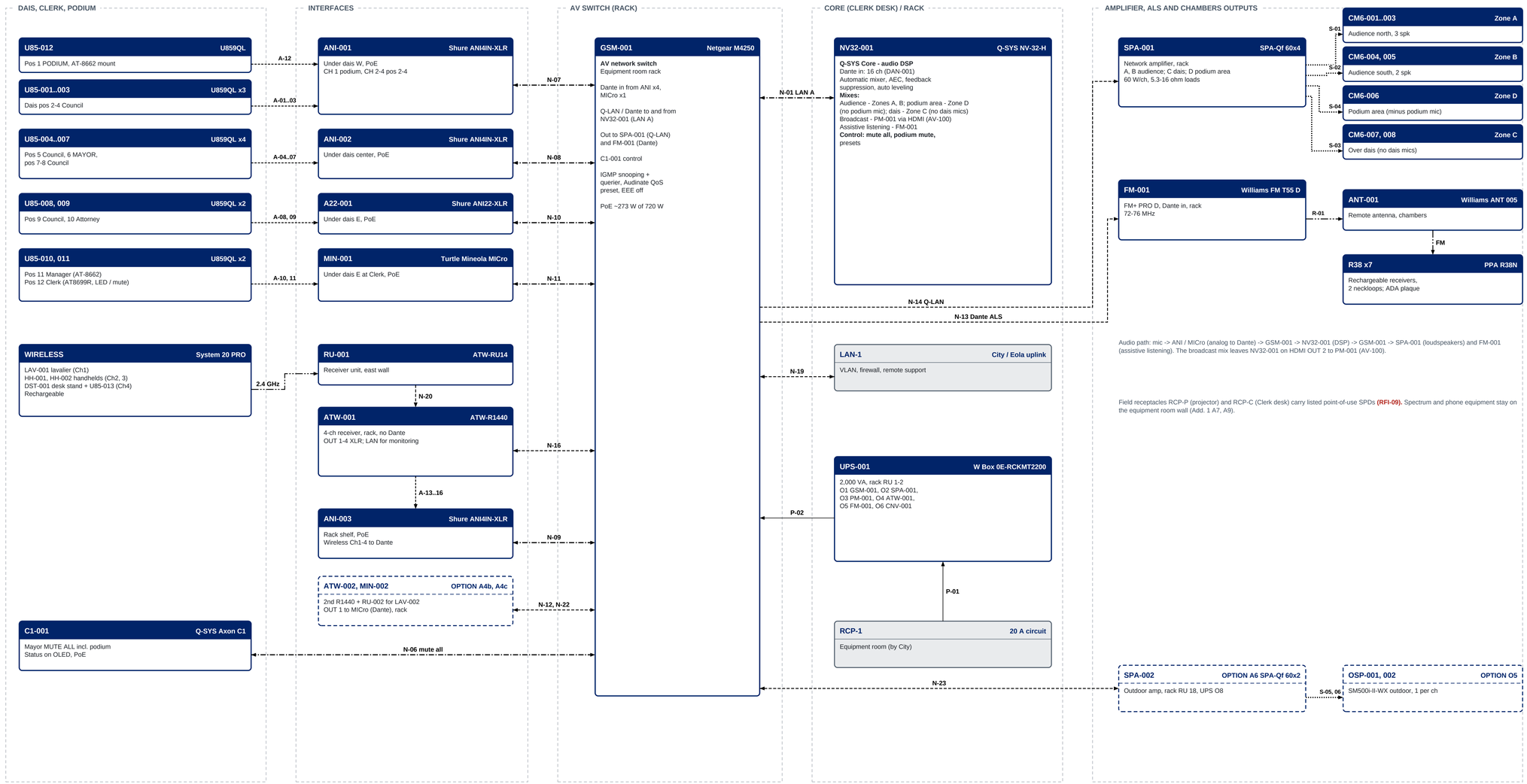
AV-100 2/13

SYSTEM CONCEPT FLOW - AUDIO, ASSISTIVE LISTENING, NETWORK AND POWER

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | Concept flow diagram, NTS. Dante and Q-LAN devices connect to the AV switch GSM-001; the switch carries their audio to and from NV32-001. Port-level wiring: AV-103, AV-104, AV-105.

1 - CONCEPT FLOW - AUDIO, NETWORK AND POWER

NTS. Box = device (tag, model, role, location). Grey = by City / existing. Double arrow = two-way network link.



Audio path: mic -> ANI / MICro (analog to Dante) -> GSM-001 -> NV32-001 (DSP) -> GSM-001 -> SPA-001 (loudspeakers) and FM-001 (assistive listening). The broadcast mix leaves NV32-001 on HDMI OUT 2 to PM-001 (AV-100).

Field receptacles RCP-P (projector) and RCP-C (Clerk desk) carry listed point-of-use SPDs **(RFI-09).** Spectrum and phone equipment stay on the equipment room wall (Add. 1 A7, A9).

HOW TO READ

1. Analog mic lines (A-) are XLR runs to the nearest Dante interface. Each Dante / Q-LAN device has one Cat6 (N-) to GSM-001; the switch carries the audio to and from NV32-001.
2. Audience zones get every mic; Zone D (podium area) drops the podium mic; Zone C over the dais carries podium, wireless and program only, because one ceiling zone cannot remove each seat from its own feed.
3. Port-level detail and cable schedules: AV-103 microphones, AV-104 outputs, AV-105 network and power.

LEGEND

- Analog audio (A-)
- Ethernet / Q-LAN (N-)
- RF coax (R-)
- 120 V AC power (P-)
- Ethernet with PoE (N-)
- Loudspeaker cable (S-)
- Control, RS-232 (C-)
- N-02 TAG PORT — Continuation flag: cable picks up at the named tag and port
- RFI-xx — Open item, RFI-001
- TCT equipment: navy header. By others: gray.

Blocks: header = mfr | model; rows = port - signal - connector, inputs left, outputs right; footer = IN | tag | OUT. Codes: DVID HDMI; DATA Ethernet/USB; POE, POE+, POE++ powered Ethernet; CTRL RS-232/IR/GPIO; AUDIO analog; DAUD digital; SPKR speaker; VID analog video; RF coax. All devices new (N).

THIRD COAST TECH

Proj # : TCT-2441

Third Coast Tech, LLC
3485 Steel Rail Drive, Ste 101
Bunnell, FL 32110
1-800-828-9517

WIP - 11/04/2026

WORK IN PROGRESS - NOT FOR CONSTRUCTION

PROPOSAL DESIGN - PENDING SITE SURVEY AND RFI RESPONSES. NOT FOR CONSTRUCTION.

Client: **City of Belle Isle, FL**

Project: **Council Chambers AV Modernization**

Room: **Council Chambers + equipment room**

Site: **Belle Isle City Hall, 1600 Nela Avenue, Belle Isle, FL 32809**

Basis of design: **RFP 2026-06 (10/01/2026), Highlights, Addenda 1 and 2 (10/27/2026), TCT quote TCT-2441 rev 0 and pick list (11/04/2026). No City drawings exist; room per Addendum 1 A2 (RFI-01).**

Drawn	**TCT Engineering**
Date	**11/04/2026**
Scale	**As noted**
Sheet size	**ARCH D 24x36**

AV-110 Concept - Audio

Concept flow: microphones, network switch, DSP, loudspeakers, assistive listening, network and power. Lines run device to device.

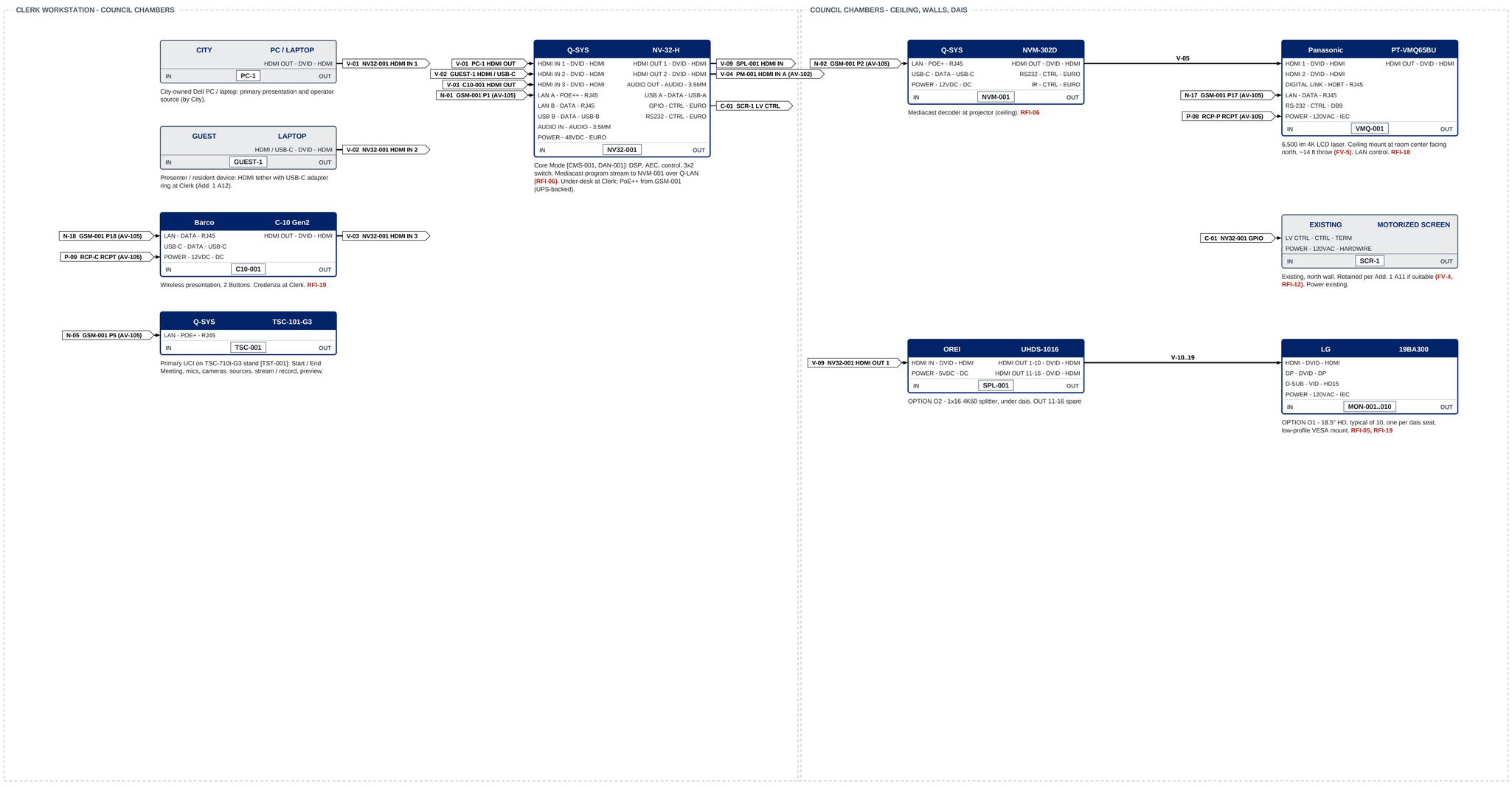
AV-110 3/13

PRESENTATION AND DISPLAY - COUNCIL CHAMBERS

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | Video sources, switching, projector, screen, dais monitor option. Cameras / broadcast: AV-102. Network / power: AV-105.

1 - SIGNAL FLOW

Schematic, NTS. Inputs left, outputs right. Flags name the cable, far-end tag and port, and the sheet where it is drawn.



CABLE SCHEDULE

ID	From	To	Type (supplied by)	Route / notes
V-01	PC-1 HDMI OUT	NV32-001 HDMI IN 1	HDMI 2.0 cord 6 ft (TCT)	Clerk desk, grommet
V-02	GUEST-1 HDMI / USB-C	NV32-001 HDMI IN 2	HDMI tether + USB-C ring (TCT)	Clerk desk cable cubby
V-03	C10-001 HDMI OUT	NV32-001 HDMI IN 3	HDMI 2.0 cord 6 ft (TCT)	Clerk credenza
V-04	NV32-001 HDMI OUT 2	PM-001 HDMI IN A	AOC HDMI 2.0 plenum (TCT)	Clerk desk to rack (RFI-17)

ID	From	To	Type (supplied by)	Route / notes
V-05	NVM-001 HDMI OUT	VMQ-001 HDMI 1	HDMI 2.0 cord 3 ft (TCT)	At projector
V-09	NV32-001 HDMI OUT 1	SPL-001 HDMI IN	HDMI cord (OPTION)	Clerk desk to dais
V-10..19	SPL-001 HDMI OUT 1-10	MON-001..010 HDMI	HDMI cords x10 (OPTION)	Under dais
C-01	NV32-001 GPIO	SCR-1 LV CTRL	LV relay interface + 18/4 (TCT)	Clerk desk to screen (RFI-12)

All cable plenum rated; Cat6 terminated RJ45. Brady labels both ends: room + cable ID. Flagged cables are run and labeled like drawn ones.

LEGEND

- HDMI video (V-)
- Ethernet with PoE (N-)
- Ethernet / Q-LAN (N-)
- Control, RS-232 (C-)
- 120 V AC power (P-)
- **N-02 TAG PORT** — Continuation flag: cable picks up at the named tag and port
- **RFI-xx** — Open item, RFI-001
- TCT equipment: navy header. By others: gray.

Blocks: header = mfr | model; rows = port - signal - connector, inputs left, outputs right; footer = IN | tag | OUT. Codes: DVID HDMI; DATA Ethernet/USB; POE, POE+, POE++ powered Ethernet; CTRL RS-232/IR/GPIO; AUDIO analog; DAUD digital; SPKR speaker; VID analog video; RF coax. All devices new (N).

NOTES

1. Q-SYS NV-32-H (Core Capable) in Core Mode is the room processor: audio DSP, control, HDMI switching. Licenses CMS-001 (Core Mode streaming) and DAN-001 (Dante 32x32).
2. Program to the projector travels as a Mediacast stream NV32-001 -> NVM-001 over the AV VLAN on GSM-001; no dedicated video cable (RFI-06).
3. Sources at the Clerk workstation: City PC (HDMI 1), guest HDMI / USB-C (HDMI 2, Add. 1 A12), ClickShare (HDMI 3). Min. 1080p; 4K capable (RFP).
4. HDMI OUT 2 carries presentation + program audio to Pearl Mini (AV-102). HDMI OUT 1 feeds the dais monitor option.
5. Screen raise / lower from NV32-001 GPIO through a low-voltage relay interface (RFI-12). Existing screen per Add. 1 A11.
6. Passive HDMI max 25 ft; V-04 is active optical HDMI. Port lists from manufacturer data; verify at submittal.

THIRD COAST TECH

Proj # : TCT-2441

Third Coast Tech, LLC
3485 Steel Rail Drive, Ste 101
Bunnell, FL 32110
1-800-828-9517

WIP - 11/04/2026

WORK IN PROGRESS - NOT FOR CONSTRUCTION

PROPOSAL DESIGN - PENDING SITE SURVEY AND RFI RESPONSES. NOT FOR CONSTRUCTION.

Client:
City of Belle Isle, FL

Project:
Council Chambers AV Modernization

Room:
Council Chambers + equipment room

Site:
Belle Isle City Hall, 1600 Nela Avenue, Belle Isle, FL 32809

Basis of design:
RFP 2026-06 (10/01/2026), Highlights, Addenda 1 and 2 (10/27/2026), TCT quote TCT-2441 rev 0 and pick list (11/04/2026). No City drawings exist; room per Addendum 1 A2 (RFI-01).

Drawn	**TCT Engineering**
Date	**11/04/2026**
Scale	**As noted**
Sheet size	**ARCH D 24x36**

AV-101 Presentation / Display

Video sources, switching, projector, screen, dais monitor option. Cameras / broadcast: AV-102. Network / power: AV-105.

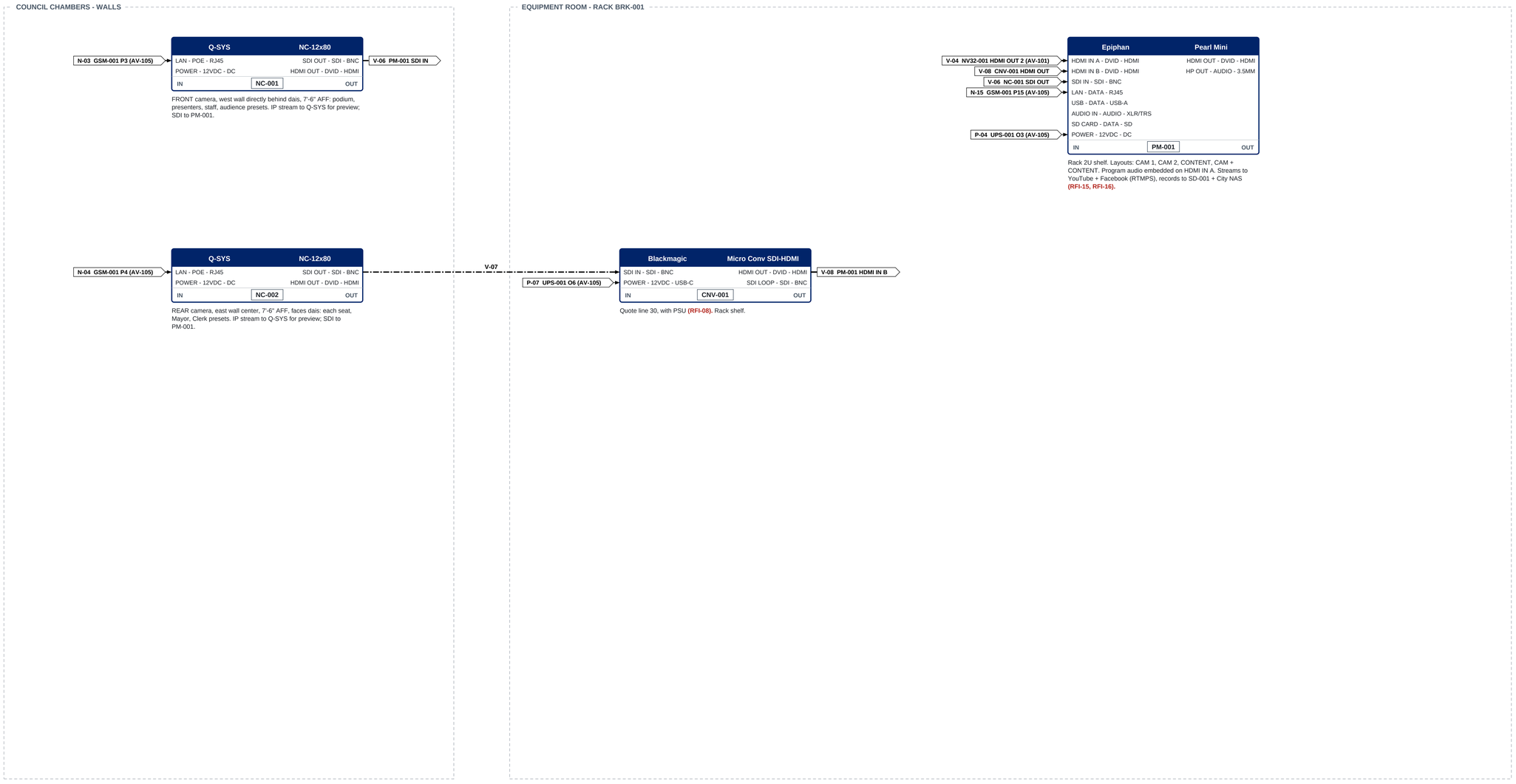
AV-101 4/13

CAMERAS AND BROADCAST - COUNCIL CHAMBERS

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | PTZ cameras, SDI conversion, streaming and recording. Presentation: AV-101. Network / power: AV-105.

1 - SIGNAL FLOW

Schematic, NTS. Inputs left, outputs right. Flags name the cable, far-end tag and port, and the sheet where it is drawn.



CABLE SCHEDULE

ID	From	To	Type (supplied by)	Route / notes
V-06	NC-001 SDI OUT	PM-001 SDI IN	RG6 3G-SDI plenum, BNC (TCT)	West wall to rack
V-07	NC-002 SDI OUT	CNV-001 SDI IN	RG6 3G-SDI plenum, BNC (TCT)	East wall to rack

ID	From	To	Type (supplied by)	Route / notes
V-08	CNV-001 HDMI OUT	PM-001 HDMI IN B	HDMI cord 3 ft (TCT)	In rack

All cable plenum rated; Cat6 terminated RJ45. Brady labels both ends: room + cable ID. Flagged cables are run and labeled like drawn ones.

LEGEND

- HDMI video (V-)
- SDI video (V-)
- Ethernet with PoE (N-)
- Ethernet / Q-LAN (N-)
- 120 V AC power (P-)
- N-02 TAG PORT — Continuation flag: cable picks up at the named tag and port
- RFI-xx — Open item, RFI-001
- TCT equipment: navy header. By others: gray.

Blocks: header = mfr | model; rows = port - signal - connector, inputs left, outputs right; footer = IN | tag | OUT. Codes: DVID HDMI; DATA Ethernet/USB; POE, POE+, POE++ powered Ethernet; CTRL RS-232/IR/GPIO; AUDIO analog; DAUD digital; SPKR speaker; VID analog video; RF coax. All devices new (N).

NOTES

1. Front camera NC-001 and rear camera NC-002 (RFP). Presets recalled from TSC-001 and by mic activity (automatic switching on active microphone).
2. Pearl Mini PM-001 builds the program (CAM 1 / CAM 2 / CONTENT / CAM + CONTENT) and streams to YouTube Live and Facebook at 1080p, simultaneously, to City-owned accounts (RFI-16). Automatic reconnect on internet loss.
3. Recording: SD-001 in PM-001 (copy 1) + automatic upload / record to City NAS (copy 2, RFI-15); completed streams remain on the City YouTube channel.
4. Q-SYS controls PM-001 (start / stop stream and record, layouts, status) over IP; status shown on TSC-001 and on the PM-001 front panel.
5. NC cameras use HDMI or SDI, not both; SDI selected. Cameras also stream to Q-SYS for TSC preview.

THIRD COAST TECH

Proj # : TCT-2441

Third Coast Tech, LLC
3485 Steel Rail Drive, Ste 101
Bunnell, FL 32110
1-800-828-9517

WIP - 11/04/2026

WORK IN PROGRESS - NOT FOR CONSTRUCTION

PROPOSAL DESIGN - PENDING SITE SURVEY AND RFI RESPONSES. NOT FOR CONSTRUCTION.

Client:
City of Belle Isle, FL

Project:
Council Chambers AV Modernization

Room:
Council Chambers + equipment room

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Drawn	**TCT Engineering**
Date	**11/04/2026**
Scale	**As noted**
Sheet size	**ARCH D 24x36**

AV-102 Cameras / Broadcast

PTZ cameras, SDI conversion, streaming and recording. Presentation: AV-101. Network / power: AV-105.

AV-102 5/13

MICROPHONES - COUNCIL CHAMBERS

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | Wired and wireless microphones to Dante interfaces. Processing: AV-104 / NV32-001 (AV-101).

1 - SIGNAL FLOW

Schematic, NTS. Inputs left, outputs right. Flags name the cable, far-end tag and port, and the sheet where it is drawn.

COUNCIL CHAMBERS - DAIS, CLERK, PODIUM, WALL

Audio-Technica U859QL — U85-001
- MIC OUT - AUDIO - XLR → A-01 ANI-001 CH 2

Pos 2 Councilmember. Dais, AT-8662 [QM-001].

Audio-Technica U859QL — U85-002
- MIC OUT - AUDIO - XLR → A-02 ANI-001 CH 3

Pos 3 Councilmember. Dais, AT-8662 [QM-002].

Audio-Technica U859QL — U85-003
- MIC OUT - AUDIO - XLR → A-03 ANI-001 CH 4

Pos 4 Councilmember. Dais, AT-8662 [QM-003].

Audio-Technica U859QL — U85-004
- MIC OUT - AUDIO - XLR → A-04 ANI-002 CH 1

Pos 5 Councilmember. Dais, AT-8662 [QM-004].

Audio-Technica U859QL — U85-005
- MIC OUT - AUDIO - XLR → A-05 ANI-002 CH 2

Pos 6 MAYOR (C1-001 Mute All). Dais, AT-8662 [QM-005].

Audio-Technica U859QL — U85-006
- MIC OUT - AUDIO - XLR → A-06 ANI-002 CH 3

Pos 7 Councilmember. Dais, AT-8662 [QM-006].

Audio-Technica U859QL — U85-007
- MIC OUT - AUDIO - XLR → A-07 ANI-002 CH 4

Pos 8 Councilmember. Dais, AT-8662 [QM-007].

Audio-Technica U859QL — U85-008
- MIC OUT - AUDIO - XLR → A-08 A22-001 IN 1

Pos 9 Councilmember. Dais, AT-8662 [QM-008].

Audio-Technica U859QL — U85-009
- MIC OUT - AUDIO - XLR → A-09 A22-001 IN 2

Pos 10 City Attorney. Dais, AT-8662 [QM-009].

Audio-Technica U859QL — U85-010
- MIC OUT - AUDIO - XLR → A-10 MIN-001 IN 1

Pos 11 City Manager. Dais, AT-8662 [QM-010].

Audio-Technica U859QL — U85-011
- MIC OUT - AUDIO - XLR → A-11 MIN-001 IN 2

Pos 12 City Clerk - on AT8699R [DS-001].

Audio-Technica U859QL — U85-012
- MIC OUT - AUDIO - XLR → A-12 ANI-001 CH 1

Pos 1 PODIUM - on AT-8662 [QM-011].

Audio-Technica ATW-RU14 — RU-001
- LINK - DATA - RJ45 → N-20 ATW-001 RU LINK

Receiver unit of ATW-R1440 (in ATW-1423/L), remote-mounted on east wall high in chambers. Cat6 to chassis.

Audio-Technica ATW-RU14 — RU-002
- LINK - DATA - RJ45 → N-21 ATW-002 RU LINK

OPTION A4b - receiver unit of ATW-002, east wall next to RU-001. Cat6 to chassis.

Audio-Technica ATW-R1440 — ATW-001

N-20 RU-001 LINK	RU LINK - DATA - RJ45	OUT 1 - AUDIO - XLR → A-13 ANI-003 CH 1
N-16 GSM-001 P16 (AV-105)	LAN - DATA - RJ45	OUT 2 - AUDIO - XLR → A-14 ANI-003 CH 2
C-02 ATW-002 LINK IN	LINK OUT - CTRL - RJ12	OUT 3 - AUDIO - XLR → A-15 ANI-003 CH 3
P-05 UPS-001 O4 (AV-105)	POWER - 12VDC - DC	OUT 4 - AUDIO - XLR → A-16 ANI-003 CH 4

4-ch 2.4 GHz receiver (ATW-1423/L), rack. No Dante: OUT 1-4 XLR to ANI-003. Ch1 LAV-001, Ch2 HH-001, Ch3 HH-002, Ch4 DST-001 + U85-013.

Audio-Technica ATW-R1440 — ATW-002

N-21 RU-002 LINK	RU LINK - DATA - RJ45	OUT 1 - AUDIO - XLR → A-17 MIN-002 IN 1
N-22 GSM-001 P19 (AV-105)	LAN - DATA - RJ45	OUT 2-4 - AUDIO - XLR
C-02 ATW-001 LINK OUT	LINK IN - CTRL - RJ12	
P-10 UPS-001 O7 (AV-105)	POWER - 12VDC - DC	

OPTION A4b - 2nd receiver for LAV-002 (ATW-001 is full). Rack RU 18. OUT 2-4 spare.

Shure ANI4IN-XLR — ANI-001

A-12 U85-012 MIC OUT	CH 1 - AUDIO - XLR
A-01 U85-001 MIC OUT	CH 2 - AUDIO - XLR
A-02 U85-002 MIC OUT	CH 3 - AUDIO - XLR
A-03 U85-003 MIC OUT	CH 4 - AUDIO - XLR
N-07 GSM-001 P7 (AV-105)	LAN - POE - RJ45

Under dais, west. Podium (CH 1), pos 2-4. Dante to NV32-001.

Shure ANI4IN-XLR — ANI-002

A-04 U85-004 MIC OUT	CH 1 - AUDIO - XLR
A-05 U85-005 MIC OUT	CH 2 - AUDIO - XLR
A-06 U85-006 MIC OUT	CH 3 - AUDIO - XLR
A-07 U85-007 MIC OUT	CH 4 - AUDIO - XLR
N-08 GSM-001 P8 (AV-105)	LAN - POE - RJ45

Under dais, center. Pos 5-8 (Mayor pos 6 on CH 2). Dante to NV32-001.

Shure ANI22-XLR — A22-001

A-08 U85-008 MIC OUT	IN 1 - AUDIO - XLR
A-09 U85-009 MIC OUT	IN 2 - AUDIO - XLR
N-10 GSM-001 P10 (AV-105)	LAN - POE - RJ45

OUT 1 - AUDIO - XLR; OUT 2 - AUDIO - XLR

Under dais, east. Pos 9, 10. Outputs spare. Dante to NV32-001.

Turtle AV Mineola MICro — MIN-001

A-10 U85-010 MIC OUT	IN 1 - AUDIO - XLR/TRS
A-11 U85-011 MIC OUT	IN 2 - AUDIO - XLR/TRS
N-11 GSM-001 P11 (AV-105)	LAN - POE - RJ45
	USB-C - 5VDC - USB-C

Under dais, east end at Clerk. Pos 11 Manager, pos 12 Clerk. Dante to NV32-001.

PODIUM / RACK

Shure ANI4IN-XLR — ANI-003

A-13 ATW-001 OUT 1	CH 1 - AUDIO - XLR
A-14 ATW-001 OUT 2	CH 2 - AUDIO - XLR
A-15 ATW-001 OUT 3	CH 3 - AUDIO - XLR
A-16 ATW-001 OUT 4	CH 4 - AUDIO - XLR
N-09 GSM-001 P9 (AV-105)	LAN - POE - RJ45

Rack shelf. Wireless receiver ATW-001 OUT 1-4. Dante to NV32-001.

Turtle AV Mineola MICro — MIN-002

A-17 ATW-002 OUT 1	IN 1 - AUDIO - XLR/TRS
N-12 GSM-001 P12 (AV-105)	IN 2 - AUDIO - XLR/TRS
	LAN - POE - RJ45
	USB-C - 5VDC - USB-C

OPTION A4c - rack shelf. ATW-002 OUT 1 (LAV-002). IN 2 spare. Dante to NV32-001.

CABLE SCHEDULE

ID	From	To	Type (supplied by)	Route / notes
A-01	U85-001 MIC OUT	ANI-001 CH 2	Shielded mic cable, XLR (TCT)	Under dais
A-02	U85-002 MIC OUT	ANI-001 CH 3	Shielded mic cable, XLR (TCT)	Under dais
A-03	U85-003 MIC OUT	ANI-001 CH 4	Shielded mic cable, XLR (TCT)	Under dais
A-04	U85-004 MIC OUT	ANI-002 CH 1	Shielded mic cable, XLR (TCT)	Under dais
A-05	U85-005 MIC OUT	ANI-002 CH 2	Shielded mic cable, XLR (TCT)	Under dais
A-06	U85-006 MIC OUT	ANI-002 CH 3	Shielded mic cable, XLR (TCT)	Under dais
A-07	U85-007 MIC OUT	ANI-002 CH 4	Shielded mic cable, XLR (TCT)	Under dais
A-08	U85-008 MIC OUT	A22-001 IN 1	Shielded mic cable, XLR (TCT)	Under dais
A-09	U85-009 MIC OUT	A22-001 IN 2	Shielded mic cable, XLR (TCT)	Under dais
A-10	U85-010 MIC OUT	MIN-001 IN 1	Shielded mic cable, XLR (TCT)	Under dais

ID	From	To	Type (supplied by)	Route / notes
A-11	U85-011 MIC OUT	MIN-001 IN 2	Shielded mic cable, XLR (TCT)	Clerk desk to dais E
A-12	U85-012 MIC OUT	ANI-001 CH 1	Shielded mic cable, XLR (TCT)	Podium to dais W (FV-6)
A-13	ATW-001 OUT 1	ANI-003 CH 1	XLR patch 3 ft (TCT)	In rack
A-14	ATW-001 OUT 2	ANI-003 CH 2	XLR patch 3 ft (TCT)	In rack
A-15	ATW-001 OUT 3	ANI-003 CH 3	XLR patch 3 ft (TCT)	In rack
A-16	ATW-001 OUT 4	ANI-003 CH 4	XLR patch 3 ft (TCT)	In rack
N-20	RU-001 LINK	ATW-001 RU LINK	Cat6 plenum, RJ45 (TCT)	East wall to rack
N-21	RU-002 LINK	ATW-002 RU LINK	Cat6 plenum, RJ45 (OPTION A4b)	East wall to rack
C-02	ATW-001 LINK OUT	ATW-002 LINK IN	RJ12 link cable 30 cm (supplied, OPTION)	In rack
A-17	ATW-002 OUT 1	MIN-002 IN 1	XLR patch 3 ft (OPTION)	In rack

All cable plenum rated; Cat6 terminated RJ45. Brady labels both ends: room + cable ID. Flagged cables are run and labeled like drawn ones.

LEGEND

- Analog audio (A-)
- Ethernet with PoE (N-)
- Ethernet / Q-LAN (N-)
- 120 V AC power (P-)
- N-02 TAG PORT — Continuation flag: cable picks up at the named tag and port
- RFI-xx — Open item, RFI-001
- TCT equipment: navy header. By others: gray.

Blocks: header = mfr | model; rows = port - signal - connector, inputs left, outputs right; footer = IN | tag | OUT. Codes: DVID HDMI; DATA Ethernet/USB; POE, POE+, POE++ powered Ethernet; CTRL RS-232/IR/GPIO; AUDIO analog; DAUD digital; SPKR speaker; VID analog video; RF coax. All devices new (N).

NOTES

1. 12 wired goosenecks per RFP: 10 dais (pos 2-11), Clerk (pos 12), podium (pos 1). Table per RFP "Microphone Locations".
2. Dante from ANI-001. 003, A22-001, MIN-001 to NV32-001 (software Dante, DAN-001). Logical routes, not drawn.
3. ATW-R1440 has no Dante: OUT 1-4 (XLR) to ANI-003 in the rack. All 16 interface inputs used; no spares.
4. Wireless: System 20 PRO 2.4 GHz, rechargeable: LAV-001 (Ch1), HH-001 (Ch2), HH-002 (Ch3), DST-001 + U85-013 (Ch4).
5. U85-013 is a TCT add for RFP compliance (RFI-11).
6. Per-seat status: Clerk on AT8699R LED; dais and podium on AT-8662 mounts (no LED) - see RFI-10.
7. Mic cable shielded, plenum where in plenum; label room + cable ID both ends.
8. OPTION A4 / A4b / A4c: LAV-002 pairs to ATW-002 (2nd receiver, linked to ATW-001 by C-02); OUT 1 to MIN-002 (Dante). Five wireless mics usable at once.

THIRD COAST TECH

Proj # : TCT-2441

Third Coast Tech, LLC
3485 Steel Rail Drive, Ste 101
Bunnell, FL 32110
1-800-828-9517

WIP - 11/04/2026

WORK IN PROGRESS - NOT FOR CONSTRUCTION

PROPOSAL DESIGN - PENDING SITE SURVEY AND RFI RESPONSES. NOT FOR CONSTRUCTION.

Client: **City of Belle Isle, FL**

Project: **Council Chambers AV Modernization**

Room: **Council Chambers + equipment room**

Site: **Belle Isle City Hall, 1600 Nela Avenue, Belle Isle, FL 32809**

Basis of design: **RFP 2026-06 (10/01/2026), Highlights, Addenda 1 and 2 (10/27/2026), TCT quote TCT-2441 rev 0 and pick list (11/04/2026). No City drawings exist; room per Addendum 1 A2 (RFI-01).**

Drawn	**TCT Engineering**
Date	**11/04/2026**
Scale	**As noted**
Sheet size	**ARCH D 24x36**

AV-103 Microphones

Wired and wireless microphones to Dante interfaces. Processing: AV-104 / NV32-001 (AV-101).

AV-103 6/13

AUDIO PROCESSING, LOUDSPEAKERS AND ASSISTIVE LISTENING

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | Mayor control, amplifier, loudspeaker zones, ALS. Mix matrix at right. DSP in NV32-001 (AV-101).

1 - SIGNAL FLOW

Schematic, NTS. Inputs left, outputs right. Flags name the cable, far-end tag and port, and the sheet where it is drawn.

DAIS / RACK

Q-SYS — Axon C1

N-06 GSM-001 P6 (AV-105) → LAN - POE - RJ45 → IN [C1-001] OUT

Mayor position. Push = MUTE ALL mics incl. podium; OLED shows status. Knob disabled (UCI lock).

Williams AV — FM T55 D

N-13 GSM-001 P13 (AV-105) → DANTE - DATA - RJ45
LINE IN - AUDIO - XLR
P-06 UPS-001 O5 (AV-105) → POWER - 24VDC - DC
ANT OUT - RF - BNC
HP - AUDIO - 3.5MM
IN [FM-001] OUT

FM 558 PRO D package. ALS mix via Dante from NV32-001. 7 R38 receivers, 2 NKL 001 neckloops. Rack RPK 005.

R-01 →

RACK AND CHAMBERS CEILING

Williams AV — ANT 005

RF IN - RF - BNC
IN [ANT-001] OUT

Remote antenna (in package), chambers ceiling.

Q-SYS — SPA-Qf 60x4

N-14 GSM-001 P14 (AV-105) → LAN - DATA - RJ45
FLEX 1 - AUDIO - EURO
FLEX 2 - AUDIO - EURO
GPIO - CTRL - EURO
P-03 UPS-001 O2 (AV-105) → POWER - 120VAC - IEC
OUT A - SPKR - EURO
OUT B - SPKR - EURO
OUT C - SPKR - EURO
OUT D - SPKR - EURO
IN [SPA-001] OUT

S-02 CM6-004, 005 INPUT
S-03 CM6-007, 008 INPUT
S-04 CM6-006 INPUT

60 W/ch into 4-16 ohm. A 5.3, B 8, C 8, D 16 ohm. Half-rack, rack shelf.

S-01 →

SoundTube — CM62-EZ-II-WH

INPUT - SPKR - TERM
IN [CM6-001..003] OUT

Zone A - audience north. Typical of 3, 16 ohm, 3 in parallel = 5.3 ohm (CM6-003 is TCT add A5).

SoundTube — CM62-EZ-II-WH

S-02 SPA-001 OUT B →
INPUT - SPKR - TERM
IN [CM6-004, 005] OUT

Zone B - audience south. Typical of 2, 16 ohm, parallel = 8 ohm (CM6-005 is TCT add A5).

Q-SYS — SPA-Qf 60x2

N-23 GSM-001 P20 (AV-105) → LAN - DATA - RJ45
P-11 UPS-001 O8 (AV-105) → POWER - 120VAC - IEC
OUT A - SPKR - EURO
OUT B - SPKR - EURO
IN [SPA-002] OUT

S-05 OSP-001 INPUT
S-06 OSP-002 INPUT

OPTION A6 - 60 W/ch at 4 ohm. Half-rack, RU 18. One outdoor speaker per channel.

SoundTube — CM62-EZ-II-WH

S-04 SPA-001 OUT D →
INPUT - SPKR - TERM
IN [CM6-006] OUT

Zone D - podium area, 16 ohm. Mix-minus: everything except the podium mic.

SoundTube — CM62-EZ-II-WH

S-03 SPA-001 OUT C →
INPUT - SPKR - TERM
IN [CM6-007, 008] OUT

Zone C - over dais. Podium, wireless, program only (no dais mics). Parallel = 8 ohm.

SoundTube — SM500i-II-WX

S-05 SPA-002 OUT A →
INPUT - SPKR - TERM
IN [OSP-001] OUT

OPTION O5 - outdoor surface mount, 4 ohm direct (transformer bypass), exterior wall. Location by City.

SoundTube — SM500i-II-WX

S-06 SPA-002 OUT B →
INPUT - SPKR - TERM
IN [OSP-002] OUT

OPTION O5 - outdoor surface mount, 4 ohm direct (transformer bypass), exterior wall. Location by City.

AUDIO MIX MATRIX (NV32-001)

Input	A / B / D	C dais	Stream	ALS
Dais mics pos 2-11	Y / Y / Y	-	Y	Y
Clerk mic pos 12	Y / Y / Y	-	Y	Y
Podium mic pos 1	Y / Y / -	Y	Y	Y
Wireless Ch1-4	Y / Y / Y	Y	Y	Y
Program (HDMI audio)	Y / Y / Y	Y	Y	Y
Output	SPA A, B, D	SPA C	PM-001	FM-001

Y = in mix, - = left out (mix-minus). Automixer on all mics; feedback suppression per zone; limiter on each output. Presets: Public Meeting, Workshop / Presentation, Record + Stream, Training / General, Room Off / Standby (RFP).

CABLE SCHEDULE

ID	From	To	Type (supplied by)	Route / notes
S-01	SPA-001 OUT A	CM6-001..003 INPUT	16/2 plenum (TCT)	Zone A, ceiling
S-02	SPA-001 OUT B	CM6-004, 005 INPUT	16/2 plenum (TCT)	Zone B, ceiling
S-03	SPA-001 OUT C	CM6-007, 008 INPUT	16/2 plenum (TCT)	Zone C, over dais
S-04	SPA-001 OUT D	CM6-006 INPUT	16/2 plenum (TCT)	Zone D, near podium

ID	From	To	Type (supplied by)	Route / notes
R-01	FM-001 ANT OUT	ANT-001 RF IN	RG58 coax, BNC (in FM-001 kit)	Rack to chambers ceiling
S-05	SPA-002 OUT A	OSP-001 INPUT	14/2 outdoor rated (OPTION)	Rack to exterior wall
S-06	SPA-002 OUT B	OSP-002 INPUT	14/2 outdoor rated (OPTION)	Rack to exterior wall

All cable plenum rated; Cat6 terminated RJ45. Brady labels both ends: room + cable ID. Flagged cables are run and labeled like drawn ones.

LEGEND

- Loudspeaker cable (S-)
- Ethernet with PoE (N-)
- 120 V AC power (P-)
- RF coax (R-)
- Ethernet / Q-LAN (N-)
- N-02 TAG PORT — Continuation flag: cable picks up at the named tag and port
- RFI-xx — Open item, RFI-001
- TCT equipment: navy header. By others: gray.

Blocks: header = mfr | model; rows = port - signal - connector, inputs left, outputs right; footer = IN | tag | OUT. Codes: DVID HDMI; DATA Ethernet/USB; POE, POE+, POE++ powered Ethernet; CTRL RS-232/IR/GPIO; AUDIO analog; DAUD digital; SPKR speaker; VID analog video; RF coax. All devices new (N).

NOTES

1. Mixes (NV32-001): Zone A audience north, Zone B audience south, Zone D podium area (podium mic removed), Zone C dais (podium, wireless, program - no dais mics), Broadcast / record (to PM-001), Assistive listening (to FM-001). See mix matrix.
2. Automatic mixer (gain sharing), AEC / feedback suppression, auto leveling - no operator riding of levels (RFP).
3. Mayor C1-001: MUTE ALL including podium, status on OLED; Clerk TSC-001 controls podium mute (RFP Dais / Podium).
4. Loudspeakers 16 ohm (bypass): A 3 in parallel 5.3 ohm, B 8 ohm, C 8 ohm, D 16 ohm - all within SPA-Qf 4-16 ohm rating. 8 speakers incl. A5 **(RFI-22).**
5. Assistive listening FM 72-76 MHz to 7 PPA R38N receivers, 2 neckloops (ADA 219.3), ADA sign at entry **(RFI-21).**
6. Lobby, patio and exterior audio are excluded from the base scope (RFP).
7. OPTION A6 + O5: SPA-002 SPA-Qf 60x2 drives OSP-001, 002 (one per channel, 4 ohm). Outdoor mix from NV32-001, own level / mute on TSC-001; SPA-001 has no free channel.

THIRD COAST TECH

Proj # : TCT-2441

Third Coast Tech, LLC
3485 Steel Rail Drive, Ste 101
Bunnell, FL 32110
1-800-828-9517

WIP - 11/04/2026

WORK IN PROGRESS - NOT FOR CONSTRUCTION

PROPOSAL DESIGN - PENDING SITE SURVEY AND RFI RESPONSES. NOT FOR CONSTRUCTION.

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Project: **Council Chambers AV Modernization**

Room: **Council Chambers + equipment room**

Site: **Belle Isle City Hall, 1600 Nela Avenue, Belle Isle, FL 32809**

Basis of design: **RFP 2026-06 (10/01/2026), Highlights, Addenda 1 and 2 (10/27/2026), TCT quote TCT-2441 rev 0 and pick list (11/04/2026). No City drawings exist; room per Addendum 1 A2 (RFI-01).**

Drawn	**TCT Engineering**
Date	**11/04/2026**
Scale	**As noted**
Sheet size	**ARCH D 24x36**

AV-104 Audio / ALS

Mayor control, amplifier, loudspeaker zones, ALS. Mix matrix at right. DSP in NV32-001 (AV-101).

AV-104 7/13

NETWORK AND POWER - EQUIPMENT ROOM

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | AV switch, UPS, by-others services and power distribution.

1 - SIGNAL FLOW

Schematic, NTS. Inputs left, outputs right. Flags name the cable, far-end tag and port, and the sheet where it is drawn.

BY OTHERS

CITY / EOLA — NETWORK UPLINK

UPLINK - DATA - RJ45 → **N-19 GSM-001 P25**

IN — **LAN-1** — OUT

City LAN / Spectrum Secured Fiber Internet via City firewall. VLAN, routing, bandwidth per Eola **(RFI-15).**

BY OTHERS — 20 A CIRCUIT

RCPT - 120VAC - 5-20R → **P-01 UPS-001 AC IN**

IN — **RCP-1** — OUT

Dedicated 20 A circuit at rack, equipment room **(FV-3).**

BY OTHERS — RECEPTACLE

RCPT - 120VAC - 5-15R → **P-08 VMQ-001 POWER (AV-101)**

IN — **RCP-P** — OUT

At projector **(FV-5).** Point-of-use SPD in LOT-001.

BY OTHERS — RECEPTACLE

RCPT - 120VAC - 5-15R → **P-09 C10-001 POWER (AV-101)**

IN — **RCP-C** — OUT

At Clerk workstation. Point-of-use SPD in LOT-001.

EQUIPMENT ROOM - RACK BRK-001

Netgear — GSM4230UP-100NAS

N-19 LAN-1 UPLINK →	P25 - DATA - RJ45	P1 - POE++ - RJ45 → **N-01 NV32-001 LAN A (AV-101)**
	P26 - DATA - RJ45	P2 - POE++ - RJ45 → **N-02 NVM-001 LAN (AV-101)**
	SFP 1-4 - DATA - SFP	P3 - POE++ - RJ45 → **N-03 NC-001 LAN (AV-102)**
	CONSOLE - CTRL - RJ45	P4 - POE++ - RJ45 → **N-04 NC-002 LAN (AV-102)**
P-02 UPS-001 O1 →	PSU 1 - 120VAC - IEC	P5 - POE++ - RJ45 → **N-05 TSC-001 LAN (AV-101)**
	PSU 2 - 120VAC - IEC	P6 - POE++ - RJ45 → **N-06 C1-001 LAN (AV-104)**
		P7 - POE++ - RJ45 → **N-07 ANI-001 LAN (AV-103)**
		P8 - POE++ - RJ45 → **N-08 ANI-002 LAN (AV-103)**
		P9 - POE++ - RJ45 → **N-09 ANI-003 LAN (AV-103)**
		P10 - POE++ - RJ45 → **N-10 A22-001 LAN (AV-103)**
		P11 - POE++ - RJ45 → **N-11 MIN-001 LAN (AV-103)**
		P12 - POE++ - RJ45 → **N-12 MIN-002 LAN (AV-103)**
		P13 - POE++ - RJ45 → **N-13 FM-001 DANTE (AV-104)**
		P14 - POE++ - RJ45 → **N-14 SPA-001 LAN (AV-104)**
		P15 - POE++ - RJ45 → **N-15 PM-001 LAN (AV-102)**
		P16 - POE++ - RJ45 → **N-16 ATW-001 LAN (AV-103)**
		P17 - POE++ - RJ45 → **N-17 VMQ-001 LAN (AV-101)**
		P18 - POE++ - RJ45 → **N-18 C10-001 LAN (AV-101)**
		P19 - POE++ - RJ45 → **N-22 ATW-002 LAN (AV-103)**
		P20 - POE++ - RJ45 → **N-23 SPA-002 LAN (AV-104)**
		P21 - POE++ - RJ45
		P22 - POE++ - RJ45
		P23 - POE++ - RJ45
		P24 - POE++ - RJ45

IN — **GSM-001** — OUT

M4250-26G4F-PoE++ **(RFI-07).** AV VLAN: Q-LAN + Dante QoS, IGMP snooping + querier, EEE off. Spare P12, P19-P24, P26, SFP (options use P12, P19, P20).

W Box — 0E-RCKMT2200

P-01 RCP-1 RCPT →	AC IN - 120VAC - 5-20P	O1 - 120VAC - 5-15R → **P-02 GSM-001 PSU 1**
	USB - DATA - USB-B	O2 - 120VAC - 5-15R → **P-03 SPA-001 POWER (AV-104)**
		O3 - 120VAC - 5-15R → **P-04 PM-001 POWER (AV-102)**
		O4 - 120VAC - 5-15R → **P-05 ATW-001 POWER (AV-103)**
		O5 - 120VAC - 5-15R → **P-06 FM-001 POWER (AV-104)**
		O6 - 120VAC - 5-15R → **P-07 CNV-001 POWER (AV-102)**
		O7 - 120VAC - 5-15R → **P-10 ATW-002 POWER (AV-103)**
		O8 - 120VAC - 5-15R → **P-11 SPA-002 POWER (AV-104)**

IN — **UPS-001** — OUT

2,000 VA / 1,540 W, rack RU 1-2. O7, O8 spare (City gear, Add. 1 A9); used by options ATW-002 / SPA-002 if taken. Shutdown **RFI-14.**

CABLE SCHEDULE

ID	From	To	Type (supplied by)	Route / notes
N-01	GSM-001 P1	NV32-001 LAN A	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-02	GSM-001 P2	NVM-001 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-03	GSM-001 P3	NC-001 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-04	GSM-001 P4	NC-002 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-05	GSM-001 P5	TSC-001 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-06	GSM-001 P6	C1-001 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-07	GSM-001 P7	ANI-001 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-08	GSM-001 P8	ANI-002 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-09	GSM-001 P9	ANI-003 LAN	Cat6 plenum, RJ45 (TCT)	In rack
N-10	GSM-001 P10	A22-001 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-11	GSM-001 P11	MIN-001 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-13	GSM-001 P13	FM-001 DANTE	Cat6 plenum, RJ45 (TCT)	In rack
N-14	GSM-001 P14	SPA-001 LAN	Cat6 plenum, RJ45 (TCT)	In rack
N-15	GSM-001 P15	PM-001 LAN	Cat6 plenum, RJ45 (TCT)	In rack
N-16	GSM-001 P16	ATW-001 LAN	Cat6 plenum, RJ45 (TCT)	In rack
N-17	GSM-001 P17	VMQ-001 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers

ID	From	To	Type (supplied by)	Route / notes
N-18	GSM-001 P18	C10-001 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-19	LAN-1 UPLINK	GSM-001 P25	Cat6 patch (TCT) to City port	Equipment room **(RFI-15)**
N-12	GSM-001 P12	MIN-002 LAN	Cat6 patch (OPTION A4c)	In rack
N-22	GSM-001 P19	ATW-002 LAN	Cat6 patch (OPTION A4b)	In rack
N-23	GSM-001 P20	SPA-002 LAN	Cat6 patch (OPTION A6)	In rack
P-01	RCP-1 RCPT	UPS-001 AC IN	UPS cord (supplied)	Equipment room
P-02	UPS-001 O1	GSM-001 PSU 1	Supplied cord / PSU	In rack
P-03	UPS-001 O2	SPA-001 POWER	Supplied cord / PSU	In rack
P-04	UPS-001 O3	PM-001 POWER	Supplied cord / PSU	In rack
P-05	UPS-001 O4	ATW-001 POWER	Supplied cord / PSU	In rack
P-06	UPS-001 O5	FM-001 POWER	Supplied cord / PSU	In rack
P-07	UPS-001 O6	CNV-001 POWER	Supplied cord / PSU	In rack
P-08	RCP-P RCPT	VMQ-001 POWER	Supplied cord + SPD	Ceiling at projector
P-09	RCP-C RCPT	C10-001 POWER	Supplied PSU + SPD	Clerk credenza
P-10	UPS-001 O7	ATW-002 POWER	Supplied PSU (OPTION A4b)	In rack
P-11	UPS-001 O8	SPA-002 POWER	Supplied cord (OPTION A6)	In rack

All cable plenum rated; Cat6 terminated RJ45. Brady labels both ends: room + cable ID. Flagged cables are run and labeled like drawn ones.

LEGEND

- Ethernet with PoE (N-)
- Ethernet / Q-LAN (N-)
- 120 V AC power (P-)
- **N-02 TAG PORT** — Continuation flag: cable picks up at the named tag and port
- **RFI-xx** — Open item, RFI-001
- TCT equipment: navy header. By others: gray.

Blocks: header = mfr | model; rows = port - signal - connector, inputs left, outputs right; footer = IN | tag | OUT. Codes: DVID HDMI; DATA Ethernet/USB; POE, POE+, POE++ powered Ethernet; CTRL RS-232/IR/GPIO; AUDIO analog; DAUD digital; SPKR speaker; VID analog video; RF coax. All devices new (N).

NOTES

1. GSM-001 carries one isolated AV VLAN (Q-LAN, Dante, Mediacast, control) with QoS (Audinate preset), IGMP snooping and querier, EEE off. Uplink P25 to City network for streaming, NAS and remote support **(RFI-15).**
2. All PoE devices are powered from GSM-001 on UPS-001, so the Clerk workstation core (NV32-001) rides through outages.
3. UPS-001 on dedicated 20 A circuit RCP-1 (by others). Orderly shutdown / programmed recovery **RFI-14.**
4. Listed point-of-use surge protection at RCP-P and RCP-C (LOT-001), RFP 5.8.9 **(RFI-09).**
5. Spectrum and telephone equipment stay on the wall where they are; not moved into BRK-001 (Add. 1 A7, A9).
6. PoE budget: AV-301.

THIRD COAST TECH

Proj # : TCT-2441

Third Coast Tech, LLC
3485 Steel Rail Drive, Ste 101
Bunnell, FL 32110
1-800-828-9517

WIP - 11/04/2026

WORK IN PROGRESS - NOT FOR CONSTRUCTION

PROPOSAL DESIGN - PENDING SITE SURVEY AND RFI RESPONSES. NOT FOR CONSTRUCTION.

Client:
City of Belle Isle, FL

Project:
Council Chambers AV Modernization

Room:
Council Chambers + equipment room

Site:
Belle Isle City Hall, 1600 Nela Avenue, Belle Isle, FL 32809

Basis of design:
RFP 2026-06 (10/01/2026), Highlights, Addenda 1 and 2 (10/27/2026), TCT quote TCT-2441 rev 0 and pick list (11/04/2026). No City drawings exist; room per Addendum 1 A2 (RFI-01).

Drawn	**TCT Engineering**
Date	**11/04/2026**
Scale	**As noted**
Sheet size	**ARCH D 24x36**

AV-105 Network / Power

AV switch, UPS, by-others services and power distribution.

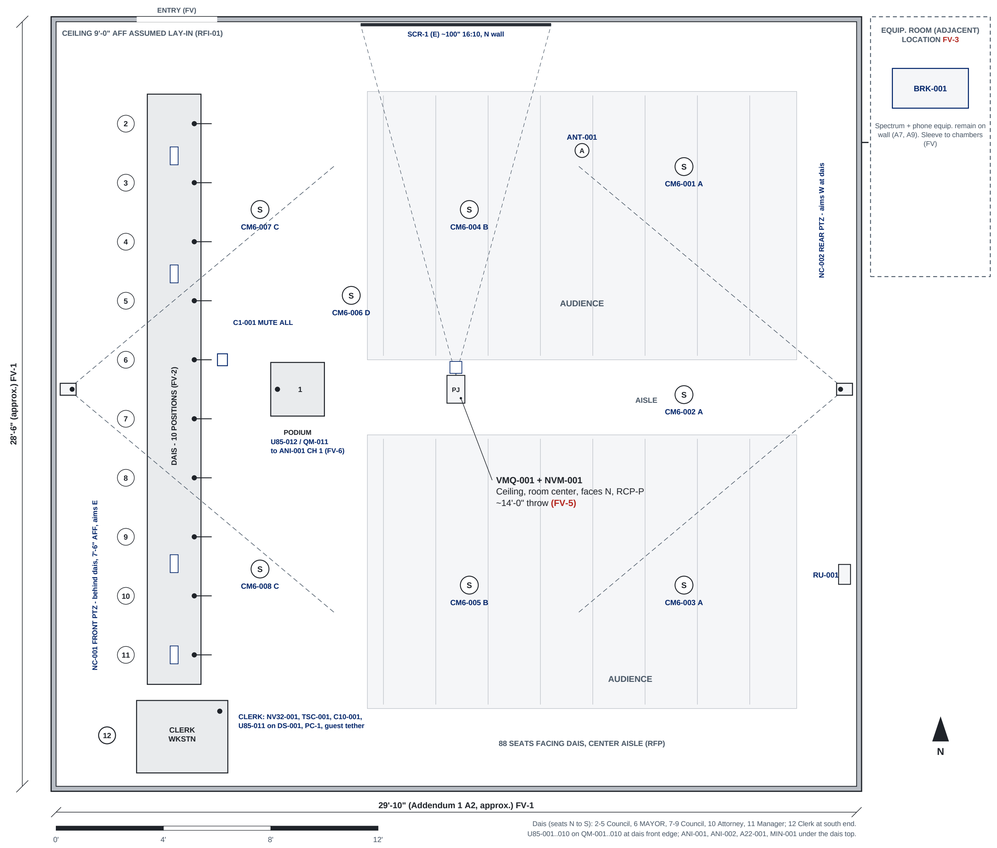
AV-105 8/13

ROOM INSTALLATION AND RACK - COUNCIL CHAMBERS

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | Plan drawn from Addendum 1 A2 dimensions - no City drawings exist. All locations are TCT assumptions to confirm in the post-award survey (FV-1..8, RFI-01, RFI-02).

1 - FLOOR PLAN - COUNCIL CHAMBERS (ASSUMED LAYOUT)

3/8" = 1'-0". North up.



Dais (seats N to S): 2-5 Council, 6 MAYOR, 7-9 Council, 10 Attorney, 11 Manager; 12 Clerk at south end.
U85-001..010 on QM-001..010 at dais front edge; ANI-001, ANI-002, A22-001, MIN-001 under the dais top.

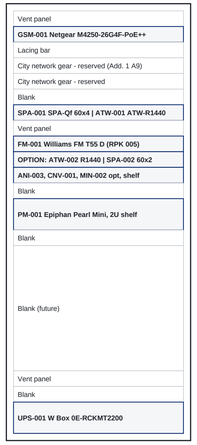
FIELD DEVICE SCHEDULE

Tag	Device	Location	Mount	Cables	Power	Notes
NC-001	Q-SYS NC12X80 PTZ (front)	West wall, centered behind dais	W 7'-6"	N-03, V-06	PoE	Presets: podium, audience, staff, wide
NC-002	Q-SYS NC12X80 PTZ (rear)	East wall, center, facing dais	W 7'-6"	N-04, V-07	PoE	Presets: each dais seat, Mayor, Clerk, wide
VMQ-001	Panasonic PT-VMQ65BU	Ceiling, room center, faces N (~14' throw)	C	V-05, N-17, P-08	RCP-P	Throw FV-5 (RFI-18)
NVM-001	Q-SYS NVM-302D	Ceiling at projector	C	N-02, V-05	PoE	RFI-06
SCR-1	Existing motorized screen	North wall (plan north)	W (E)	C-01	Existing	Retain per A11 (FV-4)
CM6-001...008	SoundTube CM62-EZ-II-WH	Ceiling per plan (A, B, C, D)	C	S-01..04	SPA-001	16 ohm; 003, 005 = A5
ANT-001 / RU-001	FM antenna / ATW-RU14	Ceiling center / east wall high	C / W 7'	R-01 / N-20	- / PoE link	Line of sight to dais
U85-001...010	U859QL on AT-8662	Dais pos 2-11	D	A-01..10	Phantom	Flush mount, FV-2 (RFI-10)
ANI-001, 002	Shure ANI4IN-XLR	Under dais N / center	D	A-01..07, A-12, N-07, 08	PoE	Mount under top
A22-001, MIN-001	Shure ANI22-XLR, Turtle MICro	Under dais S / Clerk end	D	A-08..11, N-10, N-11	PoE	Mount under top
U85-012	U859QL on AT-8662	Podium, center aisle, faces dais	D	A-12 to ANI-001	Phantom	Path FV-6
C1-001	Q-SYS Axon C1	Mayor pos 6	D surface box	N-06	PoE	Mute all
NV32-001, TSC-001	NV-32-H, TSC-101-G3 + TSC-710t-G3	Clerk workstation	D	N-01, N-05, V-01..04, C-01	PoE	Under-desk shelf / desk top
C10-001, U85-011	ClickShare C-10 Gen2, U859QL on AT8699R	Clerk workstation	D	V-03, N-18, P-09, A-11	RCP-C	Guest HDMI / USB-C tether
MON-001..010, SPL-001	OPTION LG 19BA300 x10, OREI UHDS-1016	Dais, each seat	D	V-09, V-10..19	Dais rcpt	Option O1-O4
RU-002, OSP-001, 002	OPTION ATW-RU14; SM500i-II-WX	East wall by RU-001; exterior wall	W	N-21; S-05, S-06	Link; SPA-002	Options A4b, O5

Mount codes: W wall, D desk / dais, C ceiling, FL floor; heights AFF. All locations assumed (RFI-02).

2 - RACK ELEVATION - BRK-001 STRONG SR-FS-SYSTEM-DC-27U

Front, proposed. 1-1/2" = 1'-0". 27 RU. Equipment room (FV-3). Confirm against submittals (RFI-13).



Rack notes

1. Equipment 9 RU, City reserve 2 RU, spare 16 RU (59% free). Vent above amp and UPS.
2. UPS-001 at bottom (weight). All rack devices on UPS outlets O1-O6; O7-O8 spare.
3. Locking casters or floor anchoring per Add. 1 A9; rear lacing and power / signal separated.
4. Rack ground to building ground; listed SPD per RFP 5.8.9.
5. Labels: Brady, room + cable ID (F501.01). Rack per ANSI/AVIXA F502.01.

FIELD VERIFY BEFORE INSTALL

FV	Item	Shown as
FV-1	Room dimensions, ceiling height and type (Addendum 1 A2: 29'-10" x 28'-6")	As stated, 9'-0" ACT
FV-2	Dais layout, seat order, depth of dais top, under-dais access for ANI-001..003	Straight dais, 10 seats
FV-3	Equipment room location, wall space, power (20 A) and cooling for BRK-001	Adjacent NE
FV-4	Existing screen: size, surface, motor, control interface, mounting (Add. 1 A11)	~100" 16:10, north wall
FV-5	Projector throw and mount structure; receptacle at projector (RCP-P)	Room center, faces N, ~14' throw
FV-6	Podium location and cable path (floor box / dais)	West side
FV-7	Camera mounting surfaces and sightlines (NC-001 behind dais / NC-002 facing dais)	7'-6" AFF
FV-8	Existing conduit / cabling proposed to remain, Spectrum / phone equipment on wall (A7, A9)	Protect, do not move

INSTALLATION NOTES

1. Survey before ordering: dimensions, pathways, power, screen, dais construction (FV-1..8). Report concealed conditions in writing before proceeding (RFP Exhibit B 1.5).
2. Protect dais, furnishings and finishes; room left clean and usable for scheduled meetings each day (RFP J).
3. Remove existing AV equipment and abandoned AV cabling; return to the City with disposition inventory (Add. 1 A7).
4. Cameras on PTZ-WMB1 brackets into blocking or anchors rated for the load; projector mount to structure, not ceiling grid.
5. Ceiling speakers on tile bridges with support wires; no cable on ceiling grid; plenum cable in plenum; firestop penetrations.
6. Dais mics: core / flush mount AT-8662 at each seat (FV-2); keep dais finish; ANI-001, 002, A22-001, MIN-001 under the top.

PLAN LEGEND

- (S) Ceiling speaker, zone letter
- ● Gooseneck mic; numbered circle = seat / position
- ▭ PTZ camera with 80 deg field of view (dashed)
- ▭ Network / Dante endpoint (ANI, C1, NVM)
- ▬ Projection screen (existing)
- ▭ Furniture (assumed, FV)

THIRD COAST TECH

Proj # : TCT-2441

Third Coast Tech, LLC
3485 Steel Rail Drive, Ste 101
Bunnell, FL 32110
1-800-828-9517

WIP - 11/04/2026

WORK IN PROGRESS - NOT FOR CONSTRUCTION

PROPOSAL DESIGN - PENDING SITE SURVEY AND RFI RESPONSES. NOT FOR CONSTRUCTION.

Client:
City of Belle Isle, FL

Project:
Council Chambers AV Modernization

Room:
Council Chambers + equipment room

Site:
Belle Isle City Hall, 1600 Nela Avenue, Belle Isle, FL 32809

Basis of design:
RFP 2026-06 (10/01/2026), Highlights, Addenda 1 and 2 (10/27/2026), TCT quote TCT-2441 rev 0 and pick list (11/04/2026). No City drawings exist; room per Addendum 1 A2 (RFI-01).

Drawn	**TCT Engineering**
Date	**11/04/2026**
Scale	**As noted**
Sheet size	**ARCH D 24x36**

AV-201 Room Installation

Floor plan with device locations (assumed), field device schedule, rack elevation, field verify list, installation notes.

AV-201 9/13

EQUIPMENT SCHEDULE - COUNCIL CHAMBERS

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | Tags are the D-Tools Component IDs in the BOM CSV. PO = quote line (quote order); A# = TCT add for RFP compliance; O# = option. Status N new, E existing.

EQUIPMENT SCHEDULE

Tag	PO	Qty	Status	Mfr	Model	Description	Mount / location	Power	Network	Notes
C10-001	5	1	N	Barco Commercial	ClickShare C-10 Gen2 - US version with 2 Buttons	Wireless presentation base unit + 2 Buttons, TAA, black. AirPlay / Google Cast / Miracast / App	Clerk workstation credenza (D)	12 VDC PSU from RCP-C (P-09)	N-18 (GSM P18)	Wi-Fi / network mode per City IT (RFI-15)
VMQ-001	6	1	N	Panasonic	PT-VMQ65BU	6,500 lm 4K (3840x2400 pixel-shift) 3LCD laser projector, 1.6x zoom lens, black	Ceiling, projector mount in LOT-001 (C)	120 V at RCP-P (P-08)	N-17 (GSM P17), LAN control	Throw / mount per AV-201 (RFI-18)
NV32-001	7	1	N	QSC	NV-32-H (Core Capable)	Network video endpoint in Core Mode: room processor, 3 HDMI in / 2 HDMI out switching, AEC, Q-LAN, control	Clerk workstation, under-desk shelf (D)	PoE++ from GSM P1 (N-01), UPS-backed	N-01 LAN A	Core of the system. Mediacast encoder to NVM-001 (RFI-06)
CMS-001	7a	1	N	QSC	SLQCMS-NV32-P	Core Mode Video Streaming license, perpetual, for NV32-001	-	-	-	Lets NV32-001 encode while running as the Core
NVM-001	8	1	N	QSC	NVM-302D	Mediacast network HDMI decoder at the projector	Ceiling, beside projector (C)	PoE from GSM P2 (N-02)	N-02	Decode of NV-32-H Core Mode stream to confirm (RFI-06)
DAN-001	9	1	N	QSC	SL-DAN-32-P	Software Dante 32x32 license, perpetual, for NV32-001	-	-	-	16 Dante RX / 1 TX used (ANI4IN x3, ANI22, MICro, FM T55 D)
TSC-001	10	1	N	QSC	TSC-101-G3	10.1" PoE touch screen controller - primary operator interface (UCI)	Clerk workstation, on TST-001 (D)	PoE+ from GSM P5 (N-05)	N-05	Password-protected admin pages
TST-001	10a	1	N	QSC	TSC-710t-G3	Table top mounting accessory for TSC-70-G3 / TSC-101-G3	Clerk workstation (D)	-	-	Cable through desk grommet
DS-001	12	1	N	Audio Technica	AT8699R	Quick-mount desk stand, programmable switch (touch on/off, to talk, to mute), LED mic status	Clerk workstation (D)	Phantom via MIN-001 IN 2	-	Holds U85-011 (Clerk). Switch mutes at the stand; Q-SYS does not see it
ATW-001	13	1	N	Audio-Technica	ATW-1423/L	System 20 PRO: ATW-R1440 4-ch receiver (incl. ATW-RU14 remote receiver unit), ATW-T1402 handheld, ATW-T1401 bodypack + MT830cW lavalier [HH-001, LAV-001]	Rack, half-rack shelf; RU-001 on chambers wall (W)	12 VDC adapter, UPS O4 (P-05)	N-16 (GSM P16)	Rechargeable. Ch1 LAV-001, Ch2 HH-001, Ch3 HH-002, Ch4 DST-001; OUT 1-4 to ANI-003 in rack
HH-002	14	1	N	Audio-Technica	ATW-T1402	System 20 PRO handheld transmitter (2nd handheld per RFP)	Charging dock at clerk workstation	Rechargeable	-	Receiver Ch3
DST-001	15	1	N	Audio-Technica	ATW-T1407	System 20 PRO desk stand transmitter, XLRF gooseneck socket, mute switch, Li-ion	Portable table position	Rechargeable	-	Needs a gooseneck: U85-013 added (A2). Purpose RFI-11
U85-001..012	16	12	N	Audio-Technica	U859QL	Cardioid condenser quick-mount gooseneck, integral power module, phantom only, 18.90"	Dais pos 2-11 (U85-001..010), Clerk (011), Podium (012) (D)	Phantom from ANI-00x	-	Mic table: pos 1 podium, 2-5 Council, 6 Mayor, 7-9 Council, 10 Attorney, 11 Manager, 12 Clerk
QM-001..012	16a	12	N	Audio-Technica	AT-8662	Microphone shock mount for quick-mount gooseneck, flush desk install	Dais pos 2-11 (QM-001..010), podium (QM-011); QM-012 spare	-	-	No switch / LED at dais seats (RFI-10)
GSM-001	17	1	N	Netgear	GSM4230UP-100NAS	M4250-26G4F-PoE++ AV Line managed switch: 24x 1G Ultra90 PoE++, 2x 1G, 4x SFP. Q-SYS / Dante AV profiles	Rack (BRK-001)	UPS O1 (P-02)	P25 uplink to City (N-19)	US SKU; quote / pick list show Europe GSM4230UP-100EUS (RFI-07)
C1-001	18	1	N	QSC	Axon C1	Attero Tech Axon C1 single-gang networked controller, OLED, encoder/push, black + white trims	Mayor position, dais (D/surface box)	PoE from GSM P6 (N-06)	N-06	Mayor MUTE ALL (incl. podium) with status on OLED
SPA-001	19	1	N	QSC	SPA-QF60X4	4-ch network power amplifier, 60 W/ch, Q-LAN	Rack, half-rack shelf	UPS O2 (P-03)	N-14 (GSM P14)	A audience N (5.3 ohm), B audience S (8 ohm), C dais (8 ohm), D podium area (16 ohm). All channels used
A22-001	20	1	N	Shure	ANI22-XLR	2-ch mic/line in + 2-ch out Dante network interface. XLR, phantom, PoE	Under dais, east (D)	PoE from GSM P10 (N-10)	N-10	Dais pos 9 (IN 1) and pos 10 (IN 2); outputs spare
ANI-001..003	21	3	N	Shure	ANI4IN-XLR	4-ch mic/line Dante network interface, XLR, phantom, PoE	ANI-001 under dais W, ANI-002 under dais center (D); ANI-003 rack shelf	PoE from GSM P7-P9 (N-07..09)	N-07..09	ANI-001: podium + pos 2-4; ANI-002: pos 5-8; ANI-003: wireless receiver Ch1-4. No spare inputs
CM6-001..006	22	6	N	SoundTube	CM62-EZ-II-WH	6.5" 2-way in-ceiling loudspeaker, white, 16 ohm bypass / 70-100 V taps, 90 dB 1 W / 1 m, 50 W RMS	Ceiling tile bridge (C)	SPA-001 A-D (S-01..04)	-	16 ohm bypass. Zone A CM6-001..003 (3 in parallel = 5.3 ohm), B CM6-004, 005 (8 ohm), D CM6-006 podium-area (16 ohm), C CM6-007, 008 dais (8 ohm). With A5: 8 total (RFI-22)
MIN-001	24	1	N	Turtle	TAV-MINEOLAMICRO	Mineola MICro 2-ch XLR/TRS mic/line to Dante, preamps, phantom, PoE, DSP	Under dais, east end at Clerk (D)	PoE from GSM P11 (N-11)	N-11	Dais pos 11 (Manager) and pos 12 (Clerk)
FM-001	27	1	N	Williams AV	FM 558 PRO D	FM+ PRO assistive listening package with Dante: FM T55 D transmitter (FM + Wi-Fi), 4 R38 receivers, 4 EAR 022, 2 NKL 001 neckloops, chargers, ANT 005 remote antenna, RPK 005 rack kit, IDP 008 ADA plaque	Rack (RPK 005); ANT-001 in chambers; plaque at entry	24 VDC adapter, UPS O5 (P-06)	N-13 Dante (GSM P13)	ALS mix over Dante. 7 receivers total with R38-005..007
R38-005..007	28	3	N	Williams AV	PPA R38N	FM receiver, 17 channel, OLED (adds to 4 in FM 558 PRO D = 7)	Charging stored at clerk	Rechargeable NiMH	-	Quote text says "added to reach 48 receivers" - 7 total intended
EAR-005..007	26	3	N	Williams AV	EAR022	Surround earphone for R38-005..007	-	-	-	-
CHG-001, 002	29	2	N	Williams Sound	BATKT6	Dual drop-in charger kit with 2 BAT 026-2 AA NiMH batteries	Clerk workstation / storage	Wall adapter	-	With package chargers covers all 7 receivers (RFI-21)
CNV-001	30	1	N	Blackmagic Design	MICRO CONVERTER SDI TO HDMI 3G PSU	Micro Converter SDI to HDMI 3G with power supply: NC-002 SDI into PM-001 HDMI B	Rack shelf	PSU from UPS O6 (P-07)	-	Quote text reads "power supply unit for...."; confirm it is the converter-with-PSU SKU (RFI-08)
PM-001	31	1	N	Epiphan Video	Pearl Mini	Live production / streaming / recording appliance: 2x HDMI + 1x SDI in, simultaneous RTMP(S) to YouTube and Facebook, local + network recording, touch-screen status	Rack, 2U shelf	12 VDC adapter, UPS O3 (P-04)	N-15 (GSM P15)	Includes 250 GB SD card and Sabrent CB-DB9P USB-serial (service console)
USB-001	31a	1	N	Sabrent	CB-DB9P	USB 2.0 to RS-232 DB9 adapter cable, 2.5 ft	Rack	-	-	Service console (GSM-001 / UPS)
SD-001	31b	1	N	TCT	SD Card	SD card for PM-001 local recording	In PM-001	-	-	Recording copy 1
NC-001, 002	32	2	N	QSC	NC12X80	Network PTZ camera, 12x optical, 80 deg HFOV, PoE Class 3, HDMI / 3G-SDI out, PTZ-WMB1 bracket	NC-001 front (west wall, centered behind dais), NC-002 rear (east wall center) (W 7'-6" AFF)	PoE from GSM P3, P4 (N-03, N-04)	N-03, N-04	Presets per AV-201. Mount surfaces FV-7
BRK-001	34	1	N	Strong	SR-FS-SYSTEM-DC-27U	Floor-standing AV rack system, 27U. Locking casters / securing method per Add. 1 A9; dims and accessories per A10	Equipment room (FL)	-	-	Casters, depth, vent and accessories to confirm (RFI-13)
UPS-001	35	1	N	W Box Technologies	0E-RCKMT2200	2,000 VA / 1,540 W line-interactive rack UPS, 2U, AVR, LCD, 8 outlets	Rack, RU 1-2	RCP-1 20 A circuit (P-01)	USB (shutdown signal RFI-14)	Orderly shutdown / recovery RFI-14
U85-013	A2	1	N	Audio-Technica	U859QL	Gooseneck for DST-001 desk stand transmitter	On DST-001	DST-001	-	TCT add - all 12 quoted goosenecks are assigned (RFI-11)
CM6-007, 008	A5	2	N	SoundTube	CM62-EZ-II-WH	2 additional ceiling loudspeakers so the audience area has 6 (even coverage at 9 ft ceiling)	Ceiling tile bridge (C)	SPA-001 (S-01..04)	-	TCT add - coverage calc on RFI-22. Same model, no amp change
LOT-001	11, 23, 25, 33, O4	5 lots	-	TCT	Lot - Wire & Materials	Quote "TCT Hardware" lines (video, audio, ALS, broadcast): projector mount, AOC HDMI, Cat6, SDI coax, speaker cable, connectors, plates, shelves, blanks, labels, point-of-use surge protection. See LOT-001 contents	-	-	-	Contents RFI-09
-	1-4	lot	-	TCT	Labor	Installation, programming, project management; quote line 4 ($1,316.00) has no description	-	-	-	Training, first-meeting engineer, documentation, maintenance not itemized (RFI-20)
MON-001..010	O1	10	OPT	LG	19BA300	OPTION - Dais confidence monitors: LG 18.5" HD business monitor, HDMI / DP / D-sub, VESA, one per dais seat	Dais, low-profile VESA mount (D)	Dais receptacles (by others)	-	1366 x 768 native - below RFP Full HD minimum; US SKU to confirm (RFI-19)
SPL-001	O2	1	OPT	OREI	UHDS-1016	OPTION - 1x16 HDMI 2.0 splitter, 4K60, HDCP 2.2, EDID management; feeds MON-001..010 from NV32-001 HDMI OUT 1	Under dais (D)	PSU at dais receptacle	-	10 outputs used, 6 spare. HDMI runs 30 ft max per OREI
LAV-002	A4	1	OPT	Audio-Technica	ATW-T1401	OPTION (RFP required) - 2nd rechargeable lavalier: System 20 PRO bodypack + MT830cW	Charging at clerk	Rechargeable	-	TCT add - separately priced option "shall" be provided (RFI-04). Fifth transmitter: pairs to ATW-002 (A4b), audio to MIN-002 (A4c)
MT8-001	A4a	1	OPT	Audio-Technica	MT830cW	OPTION - lavalier capsule for LAV-002	-	-	-	With LAV-002
ATW-002	A4b	1	OPT	Audio-Technica	ATW-R1440	OPTION - System 20 PRO 4-ch receiver (ATW-RC14 chassis + ATW-RU14 receiver unit) for LAV-002; linked to ATW-001	Rack RU 18, half-rack; RU-002 on chambers wall next to RU-001 (W)	12 VDC adapter, UPS O7 (P-10)	N-22 (GSM P19); N-21 to RU-002	TCT add - ATW-001 is full (4 transmitters). OUT 1 used, OUT 2-4 spare. Link cable to ATW-001 (C-02, supplied)
MIN-002	A4c	1	OPT	Turtle	TAV-MINEOLAMICRO	OPTION - Mineola MICro 2-ch Dante mic / line interface, PoE, for ATW-002 OUT 1	Rack shelf RU 17	PoE from GSM P12 (N-12)	N-12 (GSM P12)	TCT add - all 16 base inputs are used. IN 2 spare. Uses Dante RX 17 of 32
OSP-001, 002	O5	2	OPT	SoundTube	SM500i-II-WX	OPTION - outdoor surface-mount speakers (white)	Exterior wall	SPA-002 OUT A / B (S-05, S-06), 4 ohm direct	-	RFP excludes exterior / patio speakers from base scope - recommend withdrawing (RFI-20)
SPA-002	A6	1	OPT	QSC	SPA-QF60X2	OPTION - 2-ch network power amplifier, 60 W/ch at 4 ohm, Q-LAN, half-rack 1RU, for OSP-001, 002	Rack RU 18, half-rack	UPS O8 (P-11)	N-23 (GSM P20)	TCT add - SPA-001 has no free channel. One speaker per channel, 4 ohm direct, 60 W each

POE BUDGET - GSM-001 (WORST-CASE CLASS ALLOCATION)

Device (port)	Class	W
NV32-001 NV-32-H (P1)	802.3bt Type 4	90.0
NVM-001 NVM-302D (P2)	802.3at (TBV)	30.0
NC-001 NC12X80 (P3)	Class 3	15.4
NC-002 NC12X80 (P4)	Class 3	15.4
TSC-001 TSC-101-G3 (P5)	802.3at Class 4	30.0
C1-001 Axon C1 (P6)	802.3af	15.4
ANI-001..003 ANI4IN-XLR (P7-P9)	802.3af x3	46.2
A22-001 ANI22-XLR (P10)	802.3af	15.4
MIN-001 Mineola MICro (P11)	802.3af	15.4
TOTAL allocated		273.2
GSM4230UP budget (1 PSU / 2 PSU)		720 / 1,440
Headroom on 1 PSU		62%

Allocation at class maximum, PSE side. ATW-001, FM-001, SPA-001, PM-001, VMQ-001, C10-001 are not PoE. Per-port limits: NV-32-H needs 802.3bt Type 4 on P1 (Ultra90 port).

LOT-001 CONTENTS (WIRE AND MATERIALS)

#	Item	System
1	Projector ceiling mount, extension column and ceiling plate (model by ceiling structure, FV-5)	Video
2	Active optical (AOC) HDMI 2.0 cable, Clerk workstation to rack (V-04), plenum	Video
3	HDMI 2.0 cords 3-6 ft (V-01, V-03, V-05, V-08) and guest HDMI tether with USB-C adapter ring	Video
4	3G-SDI RG6 plenum coax with BNC (V-06, V-07)	Broadcast
5	Cat6 plenum, RJ45, keystones, plates; 22 AWG shielded mic cable; 16/2 plenum speaker cable	All
6	Low-voltage relay interface and cable to screen LVC (C-01)	Video
7	Rack shelves, blank / vent panels, lacing bars, Velcro, Brady labels	Rack
8	Listed point-of-use surge protectors at RCP-P, RCP-C and dais (RFP 5.8.9)	Power
9	Under-dais mounting for ANI-001..003, surface box for C1-001, desk grommets	Audio
10	ADA assistive listening sign (IDP 008 in FM-001 package) installation	ALS

INFRASTRUCTURE BY OTHERS

Item	Location	By
RCP-1 dedicated 20 A circuit, 5-20R	Equipment room at rack	City electrician (RFI-09)
RCP-P receptacle	Ceiling at projector	City electrician / existing (FV-5)
RCP-C receptacle	Clerk workstation	Existing (FV)
LAN-1 uplink port, VLAN, firewall, NAS share	Equipment room	City / Eola Technology (RFI-15)
City PC / laptop (PC-1)	Clerk workstation	City (Dell)
Facility-level surge protection (if recommended)	Electrical service	City (separately identified)

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Belle Isle City Hall, 1600 Nela Avenue, Belle Isle, FL 32809

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Drawn	**TCT Engineering**
Date	**11/04/2026**
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Sheet size	**ARCH D 24x36**

AV-301 Equipment Schedule

Every quote / pick list line, TCT adds and options; PoE budget; LOT-001 contents.

AV-301 10/13

RFP CONFORMANCE AND COMMISSIONING

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | One row per RFP / addendum requirement that drives the design. Status MATCH, ADDED (TCT add), NOTE (decision or clarification). Commissioning per ANSI/AVIXA 10 and RFP Deliverable C.

RFP / ADDENDA CONFORMANCE MATRIX

#	Requirement	Source	How met	TCT tags	Status	RFI
1	All principal AV equipment new, current production, supported, interoperable	RFP NEW SYSTEM 1-2	All new; Q-SYS core platform	All	MATCH	-
2	Existing motorized screen may be retained if suitable	Add. 1 A11	Retained; replacement priced if unsuitable	SCR-1	NOTE	RFI-12
3	Two PTZ cameras with presets, front and rear	Exh. A	NC-001 front, NC-002 rear, presets on TSC	NC-001, 002	MATCH	-
4	Coverage of dais, podium, staff, presenters, audience	Exh. A	Camera locations / FOV on AV-201	NC-001, 002	MATCH	FV-7
5	12 goosenecks: 10 dais, Clerk, podium	Exh. A, mic table	U859QL x12 + AT-8662 / AT8699R	U85-001..012	MATCH	-
6	1 rechargeable lavalier + 2 rechargeable handhelds	Exh. A	ATW-1423/L + ATW-T1402; OUT 1-4 to ANI-003	ATW-001, ANI-003	MATCH	-
7	2nd lavalier separately priced (shall)	Exh. A	Option A4: ATW-T1401 + MT830cW, ATW-R1440, MICro	LAV-002, ATW-002, MIN-002	ADDED	RFI-04
8	Mayor mutes all mics incl. podium; Clerk mutes podium	Exh. A Dais / Podium	C1-001 + TSC-001 logic	C1-001, TSC-001	MATCH	-
9	Mic and mute status indication	Exh. A Dais	TSC + C1 status; per-seat LED only at Clerk	DS-001, QM-xxx	NOTE	RFI-10
10	Automatic DSP, feedback control; separate mixes	Exh. A	NV32-001 automixer, AEC, 4 mixes (AV-104)	NV32-001	MATCH	-
11	New projector-based primary display, 1080p min, 4K preferred	Exh. A Video	PT-VMQ65BU 4K + NVM-302D	VMQ-001	MATCH	RFI-06
12	City PC, temp device, HDMI, USB-C (Clerk OK), wireless	Exh. A, Add. 1 A12	HDMI 1-3 on NV32-001, ClickShare	PC-1, GUEST-1, C10-001	MATCH	-
13	Base dais confidence-monitor recommendation	Exh. A Dais	Screen on side wall + TSC preview	-	NOTE	RFI-05
14	Alternate: 10 small dais monitors	Exh. A Dais	Option: 10 LG 19BA300 + OREI UHDS-1016	MON, SPL-001	NOTE	RFI-19
15	YouTube + Facebook simultaneous, 1080p, City-owned accounts	Exh. A Streaming	Pearl Mini RTMPS x2	PM-001	MATCH	RFI-16
16	Separate local / network recording, redundant	Exh. A Streaming	SD card + NAS + YouTube archive	PM-001, SD-001	MATCH	RFI-15
17	Auto reconnect; streaming / recording status	Exh. A Streaming	Pearl reconnect; UCI + front panel status	PM-001, TSC-001	MATCH	-
18	Clerk primary control, one-touch Start / End, auto start / standby	Exh. A Control	TSC-001 UCI, presets per RFP modes	TSC-001	MATCH	-
19	Role-based passwords; secure remote diagnostics	Exh. A Control	Q-SYS Access Control; VPN / Reflect via Eola	NV32-001	MATCH	RFI-15
20	UPS orderly shutdown and programmed recovery	Exh. A Control	UPS-001 + Q-SYS sequence	UPS-001	NOTE	RFI-14
21	ALS turnkey, >= 7 rechargeable receivers	Exh. A Audio	FM 558 PRO D + 3 R38N = 7, 2 neckloops	FM-001	MATCH	RFI-21
22	Listed surge protection on power and signal paths	RFP 5.8.9	Point-of-use SPDs in LOT-001; UPS	LOT-001	NOTE	RFI-09
23	New properly sized rack, itemized, locking casters	Add. 1 A9, A10	Strong SR-FS-SYSTEM-DC-27U	BRK-001	MATCH	RFI-13
24	Spectrum / phone equipment stays on wall	Add. 1 A7, A9	Protected, not relocated	-	MATCH	-
25	No exterior / patio / lobby audio in base	Exh. A, Highlights	Base excludes; option O5 + amp A6	OSP-001, 002, SPA-002	NOTE	RFI-20
26	No voting / roll call in base	Add. 1 A16	Not included	-	MATCH	-
27	Lighting not in scope	Add. 1 A1	Cameras tuned for existing lighting	-	MATCH	-

Summary: 27 rows - MATCH 19, ADDED 1, NOTE 7.

COMMISSIONING AND HANDOVER CHECKLIST

Room: Council Chambers Technician: _____ Date: _____

#	Section	Check	Pass	Fail	N/A	Init.
1	Physical	Rack built, labeled, dressed; ground and SPDs installed; UPS load < 80%				
2	Power	Start Meeting / End Meeting sequence; standby; recovery after UPS power loss test				
3	Network	All devices online in Core Manager; VLAN, IGMP querier, QoS; no Q-LAN / Dante errors over 1 h				
4	Mics	Each of 12 goosenecks + 4 wireless: level, phantom, mute, status on TSC / C1 / AT8699R				
5	Mute	Mayor C1 MUTE ALL incl. podium; Clerk podium mute				
6	Audio	Gain before feedback at each seat and podium; Zone D mix-minus; level variation across seats; STIPA recorded				
7	Video	Each source to projector at 1080p and 4K; HDCP; ClickShare from Windows, macOS, iOS, Android				
8	Cameras	Presets for each seat, podium, audience; automatic switching on active mic				
9	Stream	Simultaneous YouTube + Facebook 1080p test; pull internet - auto reconnect; status shown				
10	Record	SD and NAS recordings start / stop, file names, export; redundancy confirmed				
11	ALS	All 7 receivers at every seat area; neckloops; sign installed				
12	Security	Non-default passwords, roles, remote access tested and revocable; backups taken				
13	Docs	As-builts (AutoCAD + PDF), rack elevations, cable schedule, IP list, files, credentials handed over				
14	Training	Operator, administrator, mock meeting completed; System Acceptance Certificate signed				

City sign-off (System Acceptance Certificate): _____ Date: _____

Final payment after 30-day acceptance period without a material defect (RFP 5.8.5).

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Council Chambers + equipment room

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AV-302 Conformance

RFP / addenda conformance matrix and commissioning checklist (ANSI/AVIXA 10).

AV-302 11/13

COUNCIL CHAMBERS AV MODERNIZATION - COVER AND INDEX

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | RFP 2026-06 proposal design. Proposal drawings: final AutoCAD shop and as-built drawings follow award (RFP Deliverable A). Open items: RFI-001.

SHEET INDEX

Sheet	Title / use
AV-001	cover, index, basis of design
AV-100	concept flow - video, streaming, control
AV-110	concept flow - audio, ALS, network, power
AV-101	presentation and display
AV-102	cameras and broadcast
AV-103	microphones
AV-104	audio, loudspeakers, ALS
AV-105	network and power
AV-201	room installation and rack
AV-301	equipment schedule
AV-302	RFP conformance and commissioning
RFI-001	open items
RFI-002	open items cont.

SPACE MATRIX

Space	System	Line drawings	Install	Notes
Council Chambers	Presentation, projection, cameras, mics, reinforcement, ALS, control	AV-101..104	AV-201	29'-10" x 28'-6", 9' clg **(RFI-01)**
Clerk workstation (in chambers)	NV32-001 core, TSC-001, sources, ClickShare	AV-101, AV-103	AV-201	Location **RFI-02**
Equipment room (adjacent)	BRK-001 rack: network, UPS, amp, wireless, ALS, Pearl Mini	AV-102..105	AV-201	**FV-3**
Lobby / patio / exterior	None - excluded from base scope (RFP)	-	-	Option O5 not recommended

SYSTEM DESCRIPTION

A complete new, turnkey Q-SYS system for the Belle Isle Council Chambers. A Q-SYS NV-32-H in Core Mode at the Clerk workstation is the processor: audio DSP with automatic mixing and feedback control, HDMI switching of the City PC, guest HDMI / USB-C and Barco ClickShare, camera control and the one-touch Start / End Meeting logic on a 10.1" TSC-101-G3. Twelve Audio-Technica U859QL goosenecks (10 dais, Clerk, podium) and a 4-channel System 20 PRO wireless set (lavalier, two handhelds, desk stand) enter the system over Dante. A Q-SYS SPA-Qf 60x4 drives eight SoundTube ceiling speakers in four zones (audience north, audience south, podium area, dais). Two Q-SYS NC-12x80 PTZ cameras (front and rear) and the presentation feed go to an Epiphan Pearl Mini, which streams simultaneously to the City YouTube and Facebook accounts and records locally and to the City NAS. A new Panasonic PT-VMQ65BU 4K laser projector, fed by a Q-SYS NVM-302D, uses the retained motorized screen. A Williams AV FM+ PRO D system provides assistive listening (7 receivers). Network gear, UPS and processing sit in a new Strong 27U floor rack in the adjacent equipment room.

BASIS OF DESIGN - DOCUMENTS

Document	Date	Used for
RFP 2026-06 Modernizing the Audiovisual System for the Council Chambers (31 pp.)	10/01/2026	Scope, requirements, mic table, deliverables
RFP 2026-06 Scope Highlights (8 pp.)	10/01/2026	Summary, exclusions, scoring
Addendum No. 1 - Q&A A1-A16 (5 pp.)	10/27/2026	Room size, rack, screen reuse, USB-C, training, IT closet
Addendum No. 2 - Cone of silence, purchasing (1 p.)	10/27/2026	No US-made requirement
TCT quote TCT-2441 rev 0 (10 pp.)	11/04/2026	Equipment, quantities, options
TCT pick list TCT-2441 rev 0 (2 pp.)	11/04/2026	Manufacturer part numbers

QUOTE RECONCILIATION (TCT-2441 REV 0 VS RFP)

Quote line	Item	Status	RFI
5-10	Video: ClickShare, projector, NV-32-H + licenses, NVM-302D, TSC-101-G3	MATCH	**RFI-06**
12-16	Desk stand, ATW-1423/L, ATW-T1402, ATW-T1407, 12 U859QL + 12 AT-8662	MATCH	**RFI-10, RFI-11**
17	Netgear GSM4230UP-100EUS is the Europe SKU	CHANGED	**RFI-07**
18-24	Axon C1, SPA-QF60X4, ANI22-XLR + 3 ANI4IN-XLR (one for wireless), 6 CM62-EZ-II, MICro	MATCH	-
A5	2 more CM62-EZ-II for even audience coverage (6 audience + 2 dais)	ADDED	**RFI-22**
A2	U859QL for ATW-T1407 desk stand transmitter	ADDED	**RFI-11**
25-29	FM 558 PRO D + 3 R38N, 3 EAR022, 2 BATKT6 = 7 receivers	MATCH	**RFI-21**
30-33	BMD converter w/ PSU, Pearl Mini + SD + USB-serial, 2 NC12X80	MATCH	**RFI-08**
34-35	Strong SR-FS-SYSTEM-DC-27U rack, W Box 0E-RCKMT2200 UPS	MATCH	**RFI-13, RFI-14**
O1-O4	Option - 10 LG 19BA300 dais monitors + OREI UHDS-1016 splitter (RFP alternate)	CHANGED	**RFI-05, RFI-19**
A4	Option - 2nd lavalier ("shall be priced") + 2nd ATW-R1440 + 2nd MICro (A4b, A4c)	ADDED	**RFI-04**
O5-O6	Option - outdoor speakers; needs SPA-Qf 60x2 (A6). RFP excludes exterior	NOTE	**RFI-20**
1-4	Labor; line 4 undescribed; training / docs / maintenance not itemized	NOTE	**RFI-20**
Tax	Sales tax $130.25 shown; City is tax-exempt (RFP 11.2)	NOTE	**RFI-20**
-	Base dais confidence-monitor recommendation required in base	NOTE	**RFI-05**
-	Surge protection on all paths (RFP 5.8.9)	NOTE	**RFI-09**

Counts: 16 rows - MATCH 7, CHANGED 2, ADDED 3, NOTE 4. A-lines are TCT adds needed for RFP compliance and must be added to the quote before submittal.

GENERAL NOTES

1. All AV equipment new, current production, manufacturer supported. No existing AV equipment reused, except the motorized screen if found suitable (Add. 1 A11, **RFI-12).**
2. No City drawings exist. Plan, room size and device locations are TCT assumptions to be field verified **(FV-1..8)** after award.
3. Removed City AV equipment is returned to the City with a disposition inventory; nothing leaves City property without written authorization (RFP).
4. Network design, VLANs, remote access and NAS storage are coordinated with and approved by the City and Eola Technology.
5. Work in the equipment room is limited to AV equipment and cabling; Spectrum and phone equipment remain on the wall (A7, A9).
6. Lighting is not in scope; cameras set up for existing lighting (Add. 1 A1).
7. Installation work is not scheduled on the 1st, 3rd or 4th Tuesday; 90 calendar days from Notice to Proceed.
8. Cable labels per ANSI/AVIXA F501.01; rack per F502.01; verification per ANSI/AVIXA 10 (AV-302).

ABBREVIATIONS

AEC acoustic echo cancellation; AFF above finished floor; ALS assistive listening system; AOC active optical cable; C ceiling; D desk; FL floor; FV field verify; GPIO general purpose I/O; HAC hearing-aid compatible; LV low voltage; N new; E existing; NAS network attached storage; PoE power over Ethernet; RTMPS secure real-time messaging protocol; SPD surge protective device; TBV to be verified; UCI user control interface; UPS uninterruptible power supply; W wall.

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AV-001 Cover

Sheet index, space matrix, system description, basis of design and quote reconciliation.

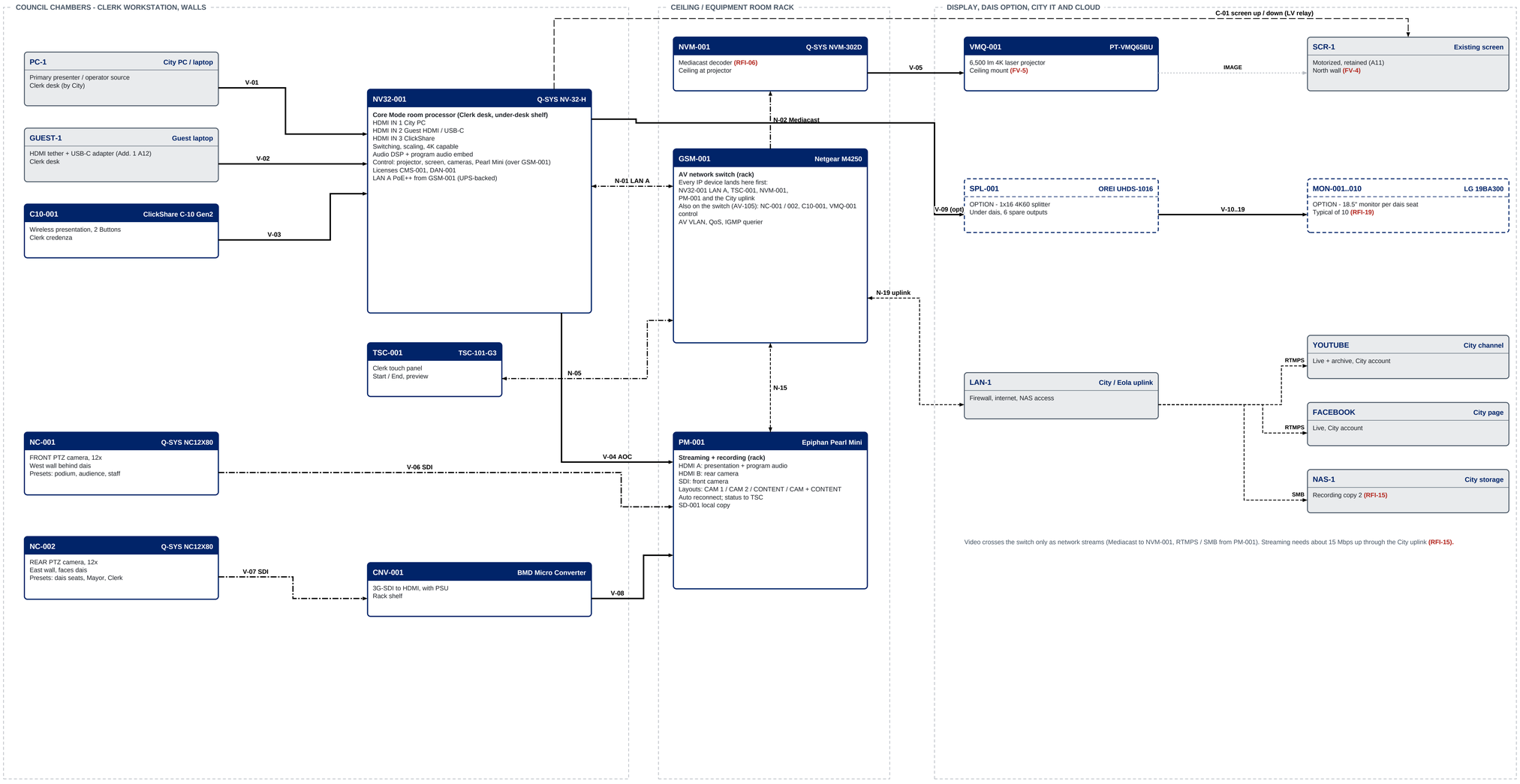
AV-001 1/13

SYSTEM CONCEPT FLOW - VIDEO, CAMERAS, STREAMING AND CONTROL

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | Concept flow diagram, NTS. Signal flows left to right; every connection drawn. All network traffic passes through the AV switch GSM-001. Port-level wiring and cable schedules: AV-101, AV-102, AV-105.

1 - CONCEPT FLOW - VIDEO AND BROADCAST

NTS. Box = device (tag, model, role, location). Dashed box = option; grey = by City / existing. Double arrow = two-way network link.



HOW TO READ

1. Concept sheets show what connects to what. Each line is one connection, drawn device to device, with its cable ID where a physical cable exists (V-, N-, C-). The same IDs appear on the port-level sheets and cable schedules.
2. Every network device (NV32-001, TSC-001, NVM-001, PM-001, cameras, ClickShare, projector) connects to the AV switch GSM-001; nothing networked plugs straight into NV32-001. Physical Cat6 runs are on AV-105.
3. Box locations are assumed until the post-award survey (FV-1..8, RFI-02).

LEGEND

- HDMI video (V-)
- SDI video (V-)
- Ethernet with PoE (N-)
- Ethernet / Q-LAN (N-)
- Control, RS-232 (C-)
- N-02 TAG PORT — Continuation flag: cable picks up at the named tag and port
- RFI-xx — Open item, RFI-001
- TCT equipment: navy header. By others: gray.

Blocks: header = mfr | model; rows = port - signal - connector, inputs left, outputs right; footer = IN | tag | OUT. Codes: DVID HDMI; DATA Ethernet/USB; POE, POE+, POE++ powered Ethernet; CTRL RS-232/IR/GPIO; AUDIO analog; DAUD digital; SPKR speaker; VID analog video; RF coax. All devices new (N).

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Drawn	**TCT Engineering**
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AV-100 Concept - Video

Concept flow: presentation, projection, cameras, streaming, recording and control. Lines run device to device; network devices meet at GSM-001.

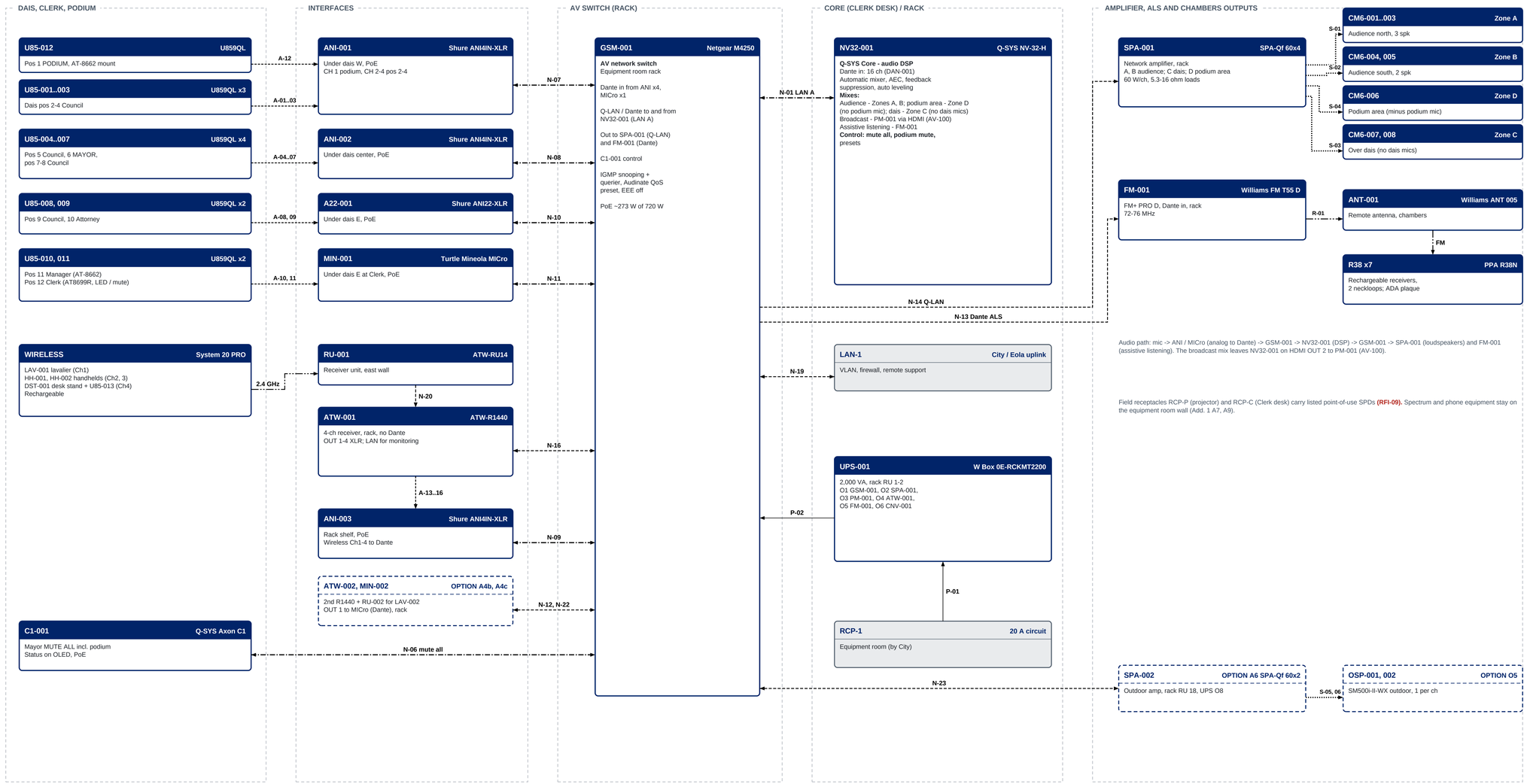
AV-100 2/13

SYSTEM CONCEPT FLOW - AUDIO, ASSISTIVE LISTENING, NETWORK AND POWER

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | Concept flow diagram, NTS. Dante and Q-LAN devices connect to the AV switch GSM-001; the switch carries their audio to and from NV32-001. Port-level wiring: AV-103, AV-104, AV-105.

1 - CONCEPT FLOW - AUDIO, NETWORK AND POWER

NTS. Box = device (tag, model, role, location). Grey = by City / existing. Double arrow = two-way network link.



Audio path: mic -> ANI / MICro (analog to Dante) -> GSM-001 -> NV32-001 (DSP) -> GSM-001 -> SPA-001 (loudspeakers) and FM-001 (assistive listening). The broadcast mix leaves NV32-001 on HDMI OUT 2 to PM-001 (AV-100).

Field receptacles RCP-P (projector) and RCP-C (Clerk desk) carry listed point-of-use SPDs **(RFI-09).** Spectrum and phone equipment stay on the equipment room wall (Add. 1 A7, A9).

HOW TO READ

1. Analog mic lines (A-) are XLR runs to the nearest Dante interface. Each Dante / Q-LAN device has one Cat6 (N-) to GSM-001; the switch carries the audio to and from NV32-001.
2. Audience zones get every mic; Zone D (podium area) drops the podium mic; Zone C over the dais carries podium, wireless and program only, because one ceiling zone cannot remove each seat from its own feed.
3. Port-level detail and cable schedules: AV-103 microphones, AV-104 outputs, AV-105 network and power.

LEGEND

- Analog audio (A-)
- Ethernet / Q-LAN (N-)
- RF coax (R-)
- 120 V AC power (P-)
- Ethernet with PoE (N-)
- Loudspeaker cable (S-)
- Control, RS-232 (C-)
- N-02 TAG PORT — Continuation flag: cable picks up at the named tag and port
- RFI-xx — Open item, RFI-001
- TCT equipment: navy header. By others: gray.

Blocks: header = mfr | model; rows = port - signal - connector, inputs left, outputs right; footer = IN | tag | OUT. Codes: DVID HDMI; DATA Ethernet/USB; POE, POE+, POE++ powered Ethernet; CTRL RS-232/IR/GPIO; AUDIO analog; DAUD digital; SPKR speaker; VID analog video; RF coax. All devices new (N).

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Project: **Council Chambers AV Modernization**

Room: **Council Chambers + equipment room**

Site: **Belle Isle City Hall, 1600 Nela Avenue, Belle Isle, FL 32809**

Basis of design: **RFP 2026-06 (10/01/2026), Highlights, Addenda 1 and 2 (10/27/2026), TCT quote TCT-2441 rev 0 and pick list (11/04/2026). No City drawings exist; room per Addendum 1 A2 (RFI-01).**

Drawn	**TCT Engineering**
Date	**11/04/2026**
Scale	**As noted**
Sheet size	**ARCH D 24x36**

AV-110 Concept - Audio

Concept flow: microphones, network switch, DSP, loudspeakers, assistive listening, network and power. Lines run device to device.

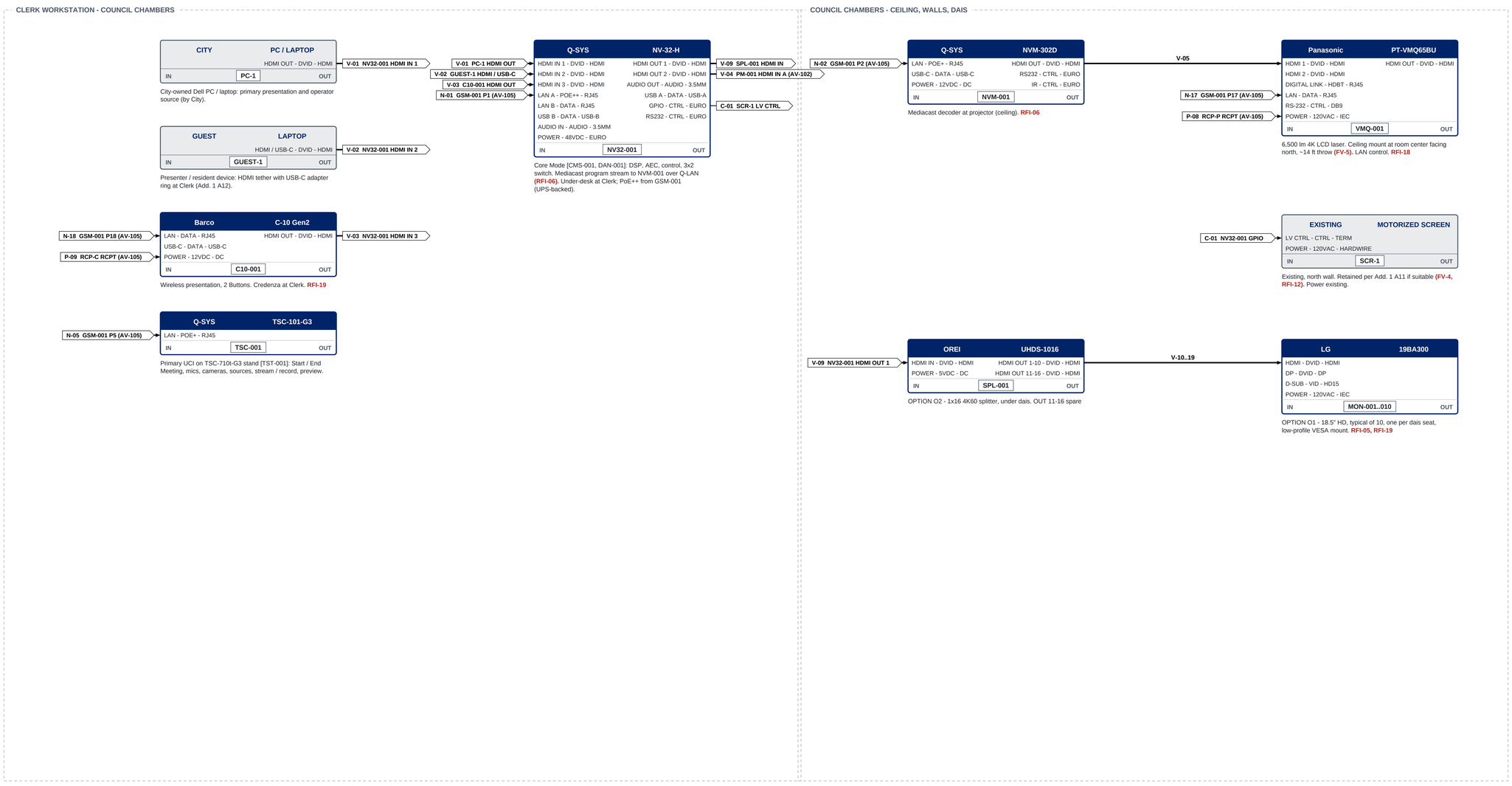
AV-110 3/13

PRESENTATION AND DISPLAY - COUNCIL CHAMBERS

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | Video sources, switching, projector, screen, dais monitor option. Cameras / broadcast: AV-102. Network / power: AV-105.

1 - SIGNAL FLOW

Schematic, NTS. Inputs left, outputs right. Flags name the cable, far-end tag and port, and the sheet where it is drawn.



CABLE SCHEDULE

ID	From	To	Type (supplied by)	Route / notes
V-01	PC-1 HDMI OUT	NV32-001 HDMI IN 1	HDMI 2.0 cord 6 ft (TCT)	Clerk desk, grommet
V-02	GUEST-1 HDMI / USB-C	NV32-001 HDMI IN 2	HDMI tether + USB-C ring (TCT)	Clerk desk cable cubby
V-03	C10-001 HDMI OUT	NV32-001 HDMI IN 3	HDMI 2.0 cord 6 ft (TCT)	Clerk credenza
V-04	NV32-001 HDMI OUT 2	PM-001 HDMI IN A	AOC HDMI 2.0 plenum (TCT)	Clerk desk to rack (RFI-17)

ID	From	To	Type (supplied by)	Route / notes
V-05	NVM-001 HDMI OUT	VMQ-001 HDMI 1	HDMI 2.0 cord 3 ft (TCT)	At projector
V-09	NV32-001 HDMI OUT 1	SPL-001 HDMI IN	HDMI cord (OPTION)	Clerk desk to dais
V-10..19	SPL-001 HDMI OUT 1-10	MON-001..010 HDMI	HDMI cords x10 (OPTION)	Under dais
C-01	NV32-001 GPIO	SCR-1 LV CTRL	LV relay interface + 18/4 (TCT)	Clerk desk to screen (RFI-12)

All cable plenum rated; Cat6 terminated RJ45. Brady labels both ends: room + cable ID. Flagged cables are run and labeled like drawn ones.

LEGEND

- HDMI video (V-)
- Ethernet with PoE (N-)
- Ethernet / Q-LAN (N-)
- Control, RS-232 (C-)
- 120 V AC power (P-)
- **N-02 TAG PORT** — Continuation flag: cable picks up at the named tag and port
- **RFI-xx** — Open item, RFI-001
- TCT equipment: navy header. By others: gray.

Blocks: header = mfr | model; rows = port - signal - connector, inputs left, outputs right; footer = IN | tag | OUT. Codes: DVID HDMI; DATA Ethernet/USB; POE, POE+, POE++ powered Ethernet; CTRL RS-232/IR/GPIO; AUDIO analog; DAUD digital; SPKR speaker; VID analog video; RF coax. All devices new (N).

NOTES

1. Q-SYS NV-32-H (Core Capable) in Core Mode is the room processor: audio DSP, control, HDMI switching. Licenses CMS-001 (Core Mode streaming) and DAN-001 (Dante 32x32).
2. Program to the projector travels as a Mediacast stream NV32-001 -> NVM-001 over the AV VLAN on GSM-001; no dedicated video cable (RFI-06).
3. Sources at the Clerk workstation: City PC (HDMI 1), guest HDMI / USB-C (HDMI 2, Add. 1 A12), ClickShare (HDMI 3). Min. 1080p; 4K capable (RFP).
4. HDMI OUT 2 carries presentation + program audio to Pearl Mini (AV-102). HDMI OUT 1 feeds the dais monitor option.
5. Screen raise / lower from NV32-001 GPIO through a low-voltage relay interface (RFI-12). Existing screen per Add. 1 A11.
6. Passive HDMI max 25 ft; V-04 is active optical HDMI. Port lists from manufacturer data; verify at submittal.

THIRD COAST TECH

Proj # : TCT-2441

Third Coast Tech, LLC
3485 Steel Rail Drive, Ste 101
Bunnell, FL 32110
1-800-828-9517

WIP - 11/04/2026

WORK IN PROGRESS - NOT FOR CONSTRUCTION

PROPOSAL DESIGN - PENDING SITE SURVEY AND RFI RESPONSES. NOT FOR CONSTRUCTION.

Client:
City of Belle Isle, FL

Project:
Council Chambers AV Modernization

Room:
Council Chambers + equipment room

Site:
Belle Isle City Hall, 1600 Nela Avenue, Belle Isle, FL 32809

Basis of design:
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Date	**11/04/2026**
Scale	**As noted**
Sheet size	**ARCH D 24x36**

AV-101 Presentation / Display

Video sources, switching, projector, screen, dais monitor option. Cameras / broadcast: AV-102. Network / power: AV-105.

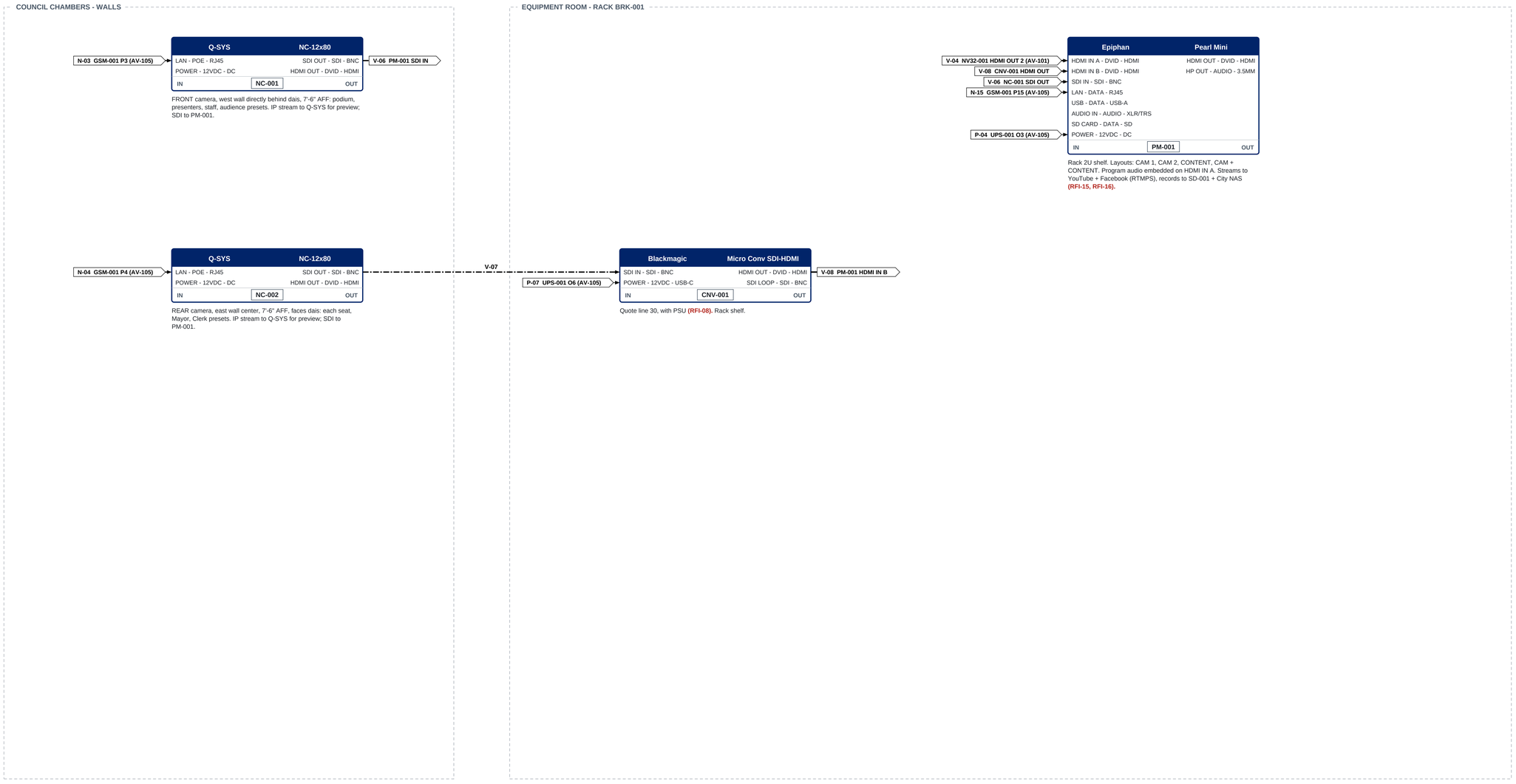
AV-101 4/13

CAMERAS AND BROADCAST - COUNCIL CHAMBERS

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | PTZ cameras, SDI conversion, streaming and recording. Presentation: AV-101. Network / power: AV-105.

1 - SIGNAL FLOW

Schematic, NTS. Inputs left, outputs right. Flags name the cable, far-end tag and port, and the sheet where it is drawn.



CABLE SCHEDULE

ID	From	To	Type (supplied by)	Route / notes
V-06	NC-001 SDI OUT	PM-001 SDI IN	RG6 3G-SDI plenum, BNC (TCT)	West wall to rack
V-07	NC-002 SDI OUT	CNV-001 SDI IN	RG6 3G-SDI plenum, BNC (TCT)	East wall to rack

ID	From	To	Type (supplied by)	Route / notes
V-08	CNV-001 HDMI OUT	PM-001 HDMI IN B	HDMI cord 3 ft (TCT)	In rack

All cable plenum rated; Cat6 terminated RJ45. Brady labels both ends: room + cable ID. Flagged cables are run and labeled like drawn ones.

LEGEND

- HDMI video (V-)
- SDI video (V-)
- Ethernet with PoE (N-)
- Ethernet / Q-LAN (N-)
- 120 V AC power (P-)
- N-02 TAG PORT — Continuation flag: cable picks up at the named tag and port
- RFI-xx — Open item, RFI-001
- TCT equipment: navy header. By others: gray.

Blocks: header = mfr | model; rows = port - signal - connector, inputs left, outputs right; footer = IN | tag | OUT. Codes: DVID HDMI; DATA Ethernet/USB; POE, POE+, POE++ powered Ethernet; CTRL RS-232/IR/GPIO; AUDIO analog; DAUD digital; SPKR speaker; VID analog video; RF coax. All devices new (N).

NOTES

1. Front camera NC-001 and rear camera NC-002 (RFP). Presets recalled from TSC-001 and by mic activity (automatic switching on active microphone).
2. Pearl Mini PM-001 builds the program (CAM 1 / CAM 2 / CONTENT / CAM + CONTENT) and streams to YouTube Live and Facebook at 1080p, simultaneously, to City-owned accounts (RFI-16). Automatic reconnect on internet loss.
3. Recording: SD-001 in PM-001 (copy 1) + automatic upload / record to City NAS (copy 2, RFI-15); completed streams remain on the City YouTube channel.
4. Q-SYS controls PM-001 (start / stop stream and record, layouts, status) over IP; status shown on TSC-001 and on the PM-001 front panel.
5. NC cameras use HDMI or SDI, not both; SDI selected. Cameras also stream to Q-SYS for TSC preview.

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AV-102 Cameras / Broadcast

PTZ cameras, SDI conversion, streaming and recording. Presentation: AV-101. Network / power: AV-105.

AV-102 5/13

MICROPHONES - COUNCIL CHAMBERS

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | Wired and wireless microphones to Dante interfaces. Processing: AV-104 / NV32-001 (AV-101).

1 - SIGNAL FLOW

Schematic, NTS. Inputs left, outputs right. Flags name the cable, far-end tag and port, and the sheet where it is drawn.

COUNCIL CHAMBERS - DAIS, CLERK, PODIUM, WALL

Audio-Technica U859QL — U85-001
- MIC OUT - AUDIO - XLR → A-01 ANI-001 CH 2

Pos 2 Councilmember. Dais, AT-8662 [QM-001].

Audio-Technica U859QL — U85-002
- MIC OUT - AUDIO - XLR → A-02 ANI-001 CH 3

Pos 3 Councilmember. Dais, AT-8662 [QM-002].

Audio-Technica U859QL — U85-003
- MIC OUT - AUDIO - XLR → A-03 ANI-001 CH 4

Pos 4 Councilmember. Dais, AT-8662 [QM-003].

Audio-Technica U859QL — U85-004
- MIC OUT - AUDIO - XLR → A-04 ANI-002 CH 1

Pos 5 Councilmember. Dais, AT-8662 [QM-004].

Audio-Technica U859QL — U85-005
- MIC OUT - AUDIO - XLR → A-05 ANI-002 CH 2

Pos 6 MAYOR (C1-001 Mute All). Dais, AT-8662 [QM-005].

Audio-Technica U859QL — U85-006
- MIC OUT - AUDIO - XLR → A-06 ANI-002 CH 3

Pos 7 Councilmember. Dais, AT-8662 [QM-006].

Audio-Technica U859QL — U85-007
- MIC OUT - AUDIO - XLR → A-07 ANI-002 CH 4

Pos 8 Councilmember. Dais, AT-8662 [QM-007].

Audio-Technica U859QL — U85-008
- MIC OUT - AUDIO - XLR → A-08 A22-001 IN 1

Pos 9 Councilmember. Dais, AT-8662 [QM-008].

Audio-Technica U859QL — U85-009
- MIC OUT - AUDIO - XLR → A-09 A22-001 IN 2

Pos 10 City Attorney. Dais, AT-8662 [QM-009].

Audio-Technica U859QL — U85-010
- MIC OUT - AUDIO - XLR → A-10 MIN-001 IN 1

Pos 11 City Manager. Dais, AT-8662 [QM-010].

Audio-Technica U859QL — U85-011
- MIC OUT - AUDIO - XLR → A-11 MIN-001 IN 2

Pos 12 City Clerk - on AT8699R [DS-001].

Audio-Technica U859QL — U85-012
- MIC OUT - AUDIO - XLR → A-12 ANI-001 CH 1

Pos 1 PODIUM - on AT-8662 [QM-011].

Audio-Technica ATW-RU14 — RU-001
- LINK - DATA - RJ45 → N-20 ATW-001 RU LINK

Receiver unit of ATW-R1440 (in ATW-1423/L), remote-mounted on east wall high in chambers. Cat6 to chassis.

Audio-Technica ATW-RU14 — RU-002
- LINK - DATA - RJ45 → N-21 ATW-002 RU LINK

OPTION A4b - receiver unit of ATW-002, east wall next to RU-001. Cat6 to chassis.

Audio-Technica ATW-R1440 — ATW-001

N-20 RU-001 LINK	RU LINK - DATA - RJ45	OUT 1 - AUDIO - XLR → A-13 ANI-003 CH 1
N-16 GSM-001 P16 (AV-105)	LAN - DATA - RJ45	OUT 2 - AUDIO - XLR → A-14 ANI-003 CH 2
C-02 ATW-002 LINK IN	LINK OUT - CTRL - RJ12	OUT 3 - AUDIO - XLR → A-15 ANI-003 CH 3
P-05 UPS-001 O4 (AV-105)	POWER - 12VDC - DC	OUT 4 - AUDIO - XLR → A-16 ANI-003 CH 4

4-ch 2.4 GHz receiver (ATW-1423/L), rack. No Dante: OUT 1-4 XLR to ANI-003. Ch1 LAV-001, Ch2 HH-001, Ch3 HH-002, Ch4 DST-001 + U85-013.

Audio-Technica ATW-R1440 — ATW-002

N-21 RU-002 LINK	RU LINK - DATA - RJ45	OUT 1 - AUDIO - XLR → A-17 MIN-002 IN 1
N-22 GSM-001 P19 (AV-105)	LAN - DATA - RJ45	OUT 2-4 - AUDIO - XLR
C-02 ATW-001 LINK OUT	LINK IN - CTRL - RJ12	
P-10 UPS-001 O7 (AV-105)	POWER - 12VDC - DC	

OPTION A4b - 2nd receiver for LAV-002 (ATW-001 is full). Rack RU 18. OUT 2-4 spare.

Shure ANI4IN-XLR — ANI-001

A-12 U85-012 MIC OUT	CH 1 - AUDIO - XLR
A-01 U85-001 MIC OUT	CH 2 - AUDIO - XLR
A-02 U85-002 MIC OUT	CH 3 - AUDIO - XLR
A-03 U85-003 MIC OUT	CH 4 - AUDIO - XLR
N-07 GSM-001 P7 (AV-105)	LAN - POE - RJ45

Under dais, west. Podium (CH 1), pos 2-4. Dante to NV32-001.

Shure ANI4IN-XLR — ANI-002

A-04 U85-004 MIC OUT	CH 1 - AUDIO - XLR
A-05 U85-005 MIC OUT	CH 2 - AUDIO - XLR
A-06 U85-006 MIC OUT	CH 3 - AUDIO - XLR
A-07 U85-007 MIC OUT	CH 4 - AUDIO - XLR
N-08 GSM-001 P8 (AV-105)	LAN - POE - RJ45

Under dais, center. Pos 5-8 (Mayor pos 6 on CH 2). Dante to NV32-001.

Shure ANI22-XLR — A22-001

A-08 U85-008 MIC OUT	IN 1 - AUDIO - XLR
A-09 U85-009 MIC OUT	IN 2 - AUDIO - XLR
N-10 GSM-001 P10 (AV-105)	LAN - POE - RJ45

OUT 1 - AUDIO - XLR; OUT 2 - AUDIO - XLR

Under dais, east. Pos 9, 10. Outputs spare. Dante to NV32-001.

Turtle AV Mineola MICro — MIN-001

A-10 U85-010 MIC OUT	IN 1 - AUDIO - XLR/TRS
A-11 U85-011 MIC OUT	IN 2 - AUDIO - XLR/TRS
N-11 GSM-001 P11 (AV-105)	LAN - POE - RJ45
	USB-C - 5VDC - USB-C

Under dais, east end at Clerk. Pos 11 Manager, pos 12 Clerk. Dante to NV32-001.

PODIUM / RACK

Shure ANI4IN-XLR — ANI-003

A-13 ATW-001 OUT 1	CH 1 - AUDIO - XLR
A-14 ATW-001 OUT 2	CH 2 - AUDIO - XLR
A-15 ATW-001 OUT 3	CH 3 - AUDIO - XLR
A-16 ATW-001 OUT 4	CH 4 - AUDIO - XLR
N-09 GSM-001 P9 (AV-105)	LAN - POE - RJ45

Rack shelf. Wireless receiver ATW-001 OUT 1-4. Dante to NV32-001.

Turtle AV Mineola MICro — MIN-002

A-17 ATW-002 OUT 1	IN 1 - AUDIO - XLR/TRS
N-12 GSM-001 P12 (AV-105)	IN 2 - AUDIO - XLR/TRS
	LAN - POE - RJ45
	USB-C - 5VDC - USB-C

OPTION A4c - rack shelf. ATW-002 OUT 1 (LAV-002). IN 2 spare. Dante to NV32-001.

CABLE SCHEDULE

ID	From	To	Type (supplied by)	Route / notes
A-01	U85-001 MIC OUT	ANI-001 CH 2	Shielded mic cable, XLR (TCT)	Under dais
A-02	U85-002 MIC OUT	ANI-001 CH 3	Shielded mic cable, XLR (TCT)	Under dais
A-03	U85-003 MIC OUT	ANI-001 CH 4	Shielded mic cable, XLR (TCT)	Under dais
A-04	U85-004 MIC OUT	ANI-002 CH 1	Shielded mic cable, XLR (TCT)	Under dais
A-05	U85-005 MIC OUT	ANI-002 CH 2	Shielded mic cable, XLR (TCT)	Under dais
A-06	U85-006 MIC OUT	ANI-002 CH 3	Shielded mic cable, XLR (TCT)	Under dais
A-07	U85-007 MIC OUT	ANI-002 CH 4	Shielded mic cable, XLR (TCT)	Under dais
A-08	U85-008 MIC OUT	A22-001 IN 1	Shielded mic cable, XLR (TCT)	Under dais
A-09	U85-009 MIC OUT	A22-001 IN 2	Shielded mic cable, XLR (TCT)	Under dais
A-10	U85-010 MIC OUT	MIN-001 IN 1	Shielded mic cable, XLR (TCT)	Under dais

ID	From	To	Type (supplied by)	Route / notes
A-11	U85-011 MIC OUT	MIN-001 IN 2	Shielded mic cable, XLR (TCT)	Clerk desk to dais E
A-12	U85-012 MIC OUT	ANI-001 CH 1	Shielded mic cable, XLR (TCT)	Podium to dais W (FV-6)
A-13	ATW-001 OUT 1	ANI-003 CH 1	XLR patch 3 ft (TCT)	In rack
A-14	ATW-001 OUT 2	ANI-003 CH 2	XLR patch 3 ft (TCT)	In rack
A-15	ATW-001 OUT 3	ANI-003 CH 3	XLR patch 3 ft (TCT)	In rack
A-16	ATW-001 OUT 4	ANI-003 CH 4	XLR patch 3 ft (TCT)	In rack
N-20	RU-001 LINK	ATW-001 RU LINK	Cat6 plenum, RJ45 (TCT)	East wall to rack
N-21	RU-002 LINK	ATW-002 RU LINK	Cat6 plenum, RJ45 (OPTION A4b)	East wall to rack
C-02	ATW-001 LINK OUT	ATW-002 LINK IN	RJ12 link cable 30 cm (supplied, OPTION)	In rack
A-17	ATW-002 OUT 1	MIN-002 IN 1	XLR patch 3 ft (OPTION)	In rack

All cable plenum rated; Cat6 terminated RJ45. Brady labels both ends: room + cable ID. Flagged cables are run and labeled like drawn ones.

LEGEND

- Analog audio (A-)
- Ethernet with PoE (N-)
- Ethernet / Q-LAN (N-)
- 120 V AC power (P-)
- N-02 TAG PORT — Continuation flag: cable picks up at the named tag and port
- RFI-xx — Open item, RFI-001
- TCT equipment: navy header. By others: gray.

Blocks: header = mfr | model; rows = port - signal - connector, inputs left, outputs right; footer = IN | tag | OUT. Codes: DVID HDMI; DATA Ethernet/USB; POE, POE+, POE++ powered Ethernet; CTRL RS-232/IR/GPIO; AUDIO analog; DAUD digital; SPKR speaker; VID analog video; RF coax. All devices new (N).

NOTES

1. 12 wired goosenecks per RFP: 10 dais (pos 2-11), Clerk (pos 12), podium (pos 1). Table per RFP "Microphone Locations".
2. Dante from ANI-001. 003, A22-001, MIN-001 to NV32-001 (software Dante, DAN-001). Logical routes, not drawn.
3. ATW-R1440 has no Dante: OUT 1-4 (XLR) to ANI-003 in the rack. All 16 interface inputs used; no spares.
4. Wireless: System 20 PRO 2.4 GHz, rechargeable: LAV-001 (Ch1), HH-001 (Ch2), HH-002 (Ch3), DST-001 + U85-013 (Ch4).
5. U85-013 is a TCT add for RFP compliance (RFI-11).
6. Per-seat status: Clerk on AT8699R LED; dais and podium on AT-8662 mounts (no LED) - see RFI-10.
7. Mic cable shielded, plenum where in plenum; label room + cable ID both ends.
8. OPTION A4 / A4b / A4c: LAV-002 pairs to ATW-002 (2nd receiver, linked to ATW-001 by C-02); OUT 1 to MIN-002 (Dante). Five wireless mics usable at once.

THIRD COAST TECH

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AV-103 Microphones

Wired and wireless microphones to Dante interfaces. Processing: AV-104 / NV32-001 (AV-101).

AV-103 6/13

AUDIO PROCESSING, LOUDSPEAKERS AND ASSISTIVE LISTENING

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | Mayor control, amplifier, loudspeaker zones, ALS. Mix matrix at right. DSP in NV32-001 (AV-101).

1 - SIGNAL FLOW

Schematic, NTS. Inputs left, outputs right. Flags name the cable, far-end tag and port, and the sheet where it is drawn.

DAIS / RACK

Q-SYS — Axon C1

N-06 GSM-001 P6 (AV-105) → LAN - POE - RJ45 → IN [C1-001] OUT

Mayor position. Push = MUTE ALL mics incl. podium; OLED shows status. Knob disabled (UCI lock).

Williams AV — FM T55 D

N-13 GSM-001 P13 (AV-105) → DANTE - DATA - RJ45
LINE IN - AUDIO - XLR
P-06 UPS-001 O5 (AV-105) → POWER - 24VDC - DC
ANT OUT - RF - BNC
HP - AUDIO - 3.5MM
IN [FM-001] OUT

FM 558 PRO D package. ALS mix via Dante from NV32-001. 7 R38 receivers, 2 NKL 001 neckloops. Rack RPK 005.

R-01 →

RACK AND CHAMBERS CEILING

Williams AV — ANT 005

RF IN - RF - BNC
IN [ANT-001] OUT

Remote antenna (in package), chambers ceiling.

Q-SYS — SPA-Qf 60x4

N-14 GSM-001 P14 (AV-105) → LAN - DATA - RJ45
FLEX 1 - AUDIO - EURO
FLEX 2 - AUDIO - EURO
GPIO - CTRL - EURO
P-03 UPS-001 O2 (AV-105) → POWER - 120VAC - IEC
OUT A - SPKR - EURO
OUT B - SPKR - EURO
OUT C - SPKR - EURO
OUT D - SPKR - EURO
IN [SPA-001] OUT

S-02 CM6-004, 005 INPUT
S-03 CM6-007, 008 INPUT
S-04 CM6-006 INPUT

60 W/ch into 4-16 ohm. A 5.3, B 8, C 8, D 16 ohm. Half-rack, rack shelf.

S-01 →

SoundTube — CM62-EZ-II-WH

INPUT - SPKR - TERM
IN [CM6-001..003] OUT

Zone A - audience north. Typical of 3, 16 ohm, 3 in parallel = 5.3 ohm (CM6-003 is TCT add A5).

SoundTube — CM62-EZ-II-WH

S-02 SPA-001 OUT B →
INPUT - SPKR - TERM
IN [CM6-004, 005] OUT

Zone B - audience south. Typical of 2, 16 ohm, parallel = 8 ohm (CM6-005 is TCT add A5).

Q-SYS — SPA-Qf 60x2

N-23 GSM-001 P20 (AV-105) → LAN - DATA - RJ45
P-11 UPS-001 O8 (AV-105) → POWER - 120VAC - IEC
OUT A - SPKR - EURO
OUT B - SPKR - EURO
IN [SPA-002] OUT

S-05 OSP-001 INPUT
S-06 OSP-002 INPUT

OPTION A6 - 60 W/ch at 4 ohm. Half-rack, RU 18. One outdoor speaker per channel.

SoundTube — CM62-EZ-II-WH

S-04 SPA-001 OUT D →
INPUT - SPKR - TERM
IN [CM6-006] OUT

Zone D - podium area, 16 ohm. Mix-minus: everything except the podium mic.

SoundTube — CM62-EZ-II-WH

S-03 SPA-001 OUT C →
INPUT - SPKR - TERM
IN [CM6-007, 008] OUT

Zone C - over dais. Podium, wireless, program only (no dais mics). Parallel = 8 ohm.

SoundTube — SM500i-II-WX

S-05 SPA-002 OUT A →
INPUT - SPKR - TERM
IN [OSP-001] OUT

OPTION O5 - outdoor surface mount, 4 ohm direct (transformer bypass), exterior wall. Location by City.

SoundTube — SM500i-II-WX

S-06 SPA-002 OUT B →
INPUT - SPKR - TERM
IN [OSP-002] OUT

OPTION O5 - outdoor surface mount, 4 ohm direct (transformer bypass), exterior wall. Location by City.

AUDIO MIX MATRIX (NV32-001)

Input	A / B / D	C dais	Stream	ALS
Dais mics pos 2-11	Y / Y / Y	-	Y	Y
Clerk mic pos 12	Y / Y / Y	-	Y	Y
Podium mic pos 1	Y / Y / -	Y	Y	Y
Wireless Ch1-4	Y / Y / Y	Y	Y	Y
Program (HDMI audio)	Y / Y / Y	Y	Y	Y
Output	SPA A, B, D	SPA C	PM-001	FM-001

Y = in mix, - = left out (mix-minus). Automixer on all mics; feedback suppression per zone; limiter on each output. Presets: Public Meeting, Workshop / Presentation, Record + Stream, Training / General, Room Off / Standby (RFP).

CABLE SCHEDULE

ID	From	To	Type (supplied by)	Route / notes
S-01	SPA-001 OUT A	CM6-001..003 INPUT	16/2 plenum (TCT)	Zone A, ceiling
S-02	SPA-001 OUT B	CM6-004, 005 INPUT	16/2 plenum (TCT)	Zone B, ceiling
S-03	SPA-001 OUT C	CM6-007, 008 INPUT	16/2 plenum (TCT)	Zone C, over dais
S-04	SPA-001 OUT D	CM6-006 INPUT	16/2 plenum (TCT)	Zone D, near podium

ID	From	To	Type (supplied by)	Route / notes
R-01	FM-001 ANT OUT	ANT-001 RF IN	RG58 coax, BNC (in FM-001 kit)	Rack to chambers ceiling
S-05	SPA-002 OUT A	OSP-001 INPUT	14/2 outdoor rated (OPTION)	Rack to exterior wall
S-06	SPA-002 OUT B	OSP-002 INPUT	14/2 outdoor rated (OPTION)	Rack to exterior wall

All cable plenum rated; Cat6 terminated RJ45. Brady labels both ends: room + cable ID. Flagged cables are run and labeled like drawn ones.

LEGEND

- Loudspeaker cable (S-)
- Ethernet with PoE (N-)
- 120 V AC power (P-)
- RF coax (R-)
- Ethernet / Q-LAN (N-)
- N-02 TAG PORT — Continuation flag: cable picks up at the named tag and port
- RFI-xx — Open item, RFI-001
- TCT equipment: navy header. By others: gray.

Blocks: header = mfr | model; rows = port - signal - connector, inputs left, outputs right; footer = IN | tag | OUT. Codes: DVID HDMI; DATA Ethernet/USB; POE, POE+, POE++ powered Ethernet; CTRL RS-232/IR/GPIO; AUDIO analog; DAUD digital; SPKR speaker; VID analog video; RF coax. All devices new (N).

NOTES

1. Mixes (NV32-001): Zone A audience north, Zone B audience south, Zone D podium area (podium mic removed), Zone C dais (podium, wireless, program - no dais mics), Broadcast / record (to PM-001), Assistive listening (to FM-001). See mix matrix.
2. Automatic mixer (gain sharing), AEC / feedback suppression, auto leveling - no operator riding of levels (RFP).
3. Mayor C1-001: MUTE ALL including podium, status on OLED; Clerk TSC-001 controls podium mute (RFP Dais / Podium).
4. Loudspeakers 16 ohm (bypass): A 3 in parallel 5.3 ohm, B 8 ohm, C 8 ohm, D 16 ohm - all within SPA-Qf 4-16 ohm rating. 8 speakers incl. A5 **(RFI-22).**
5. Assistive listening FM 72-76 MHz to 7 PPA R38N receivers, 2 neckloops (ADA 219.3), ADA sign at entry **(RFI-21).**
6. Lobby, patio and exterior audio are excluded from the base scope (RFP).
7. OPTION A6 + O5: SPA-002 SPA-Qf 60x2 drives OSP-001, 002 (one per channel, 4 ohm). Outdoor mix from NV32-001, own level / mute on TSC-001; SPA-001 has no free channel.

THIRD COAST TECH

Proj # : TCT-2441

Third Coast Tech, LLC
3485 Steel Rail Drive, Ste 101
Bunnell, FL 32110
1-800-828-9517

WIP - 11/04/2026

WORK IN PROGRESS - NOT FOR CONSTRUCTION

PROPOSAL DESIGN - PENDING SITE SURVEY AND RFI RESPONSES. NOT FOR CONSTRUCTION.

Client: **City of Belle Isle, FL**

Project: **Council Chambers AV Modernization**

Room: **Council Chambers + equipment room**

Site: **Belle Isle City Hall, 1600 Nela Avenue, Belle Isle, FL 32809**

Basis of design: **RFP 2026-06 (10/01/2026), Highlights, Addenda 1 and 2 (10/27/2026), TCT quote TCT-2441 rev 0 and pick list (11/04/2026). No City drawings exist; room per Addendum 1 A2 (RFI-01).**

Drawn	**TCT Engineering**
Date	**11/04/2026**
Scale	**As noted**
Sheet size	**ARCH D 24x36**

AV-104 Audio / ALS

Mayor control, amplifier, loudspeaker zones, ALS. Mix matrix at right. DSP in NV32-001 (AV-101).

AV-104 7/13

NETWORK AND POWER - EQUIPMENT ROOM

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | AV switch, UPS, by-others services and power distribution.

1 - SIGNAL FLOW

Schematic, NTS. Inputs left, outputs right. Flags name the cable, far-end tag and port, and the sheet where it is drawn.

BY OTHERS

CITY / EOLA — NETWORK UPLINK

UPLINK - DATA - RJ45 → **N-19 GSM-001 P25**

IN — **LAN-1** — OUT

City LAN / Spectrum Secured Fiber Internet via City firewall. VLAN, routing, bandwidth per Eola **(RFI-15).**

BY OTHERS — 20 A CIRCUIT

RCPT - 120VAC - 5-20R → **P-01 UPS-001 AC IN**

IN — **RCP-1** — OUT

Dedicated 20 A circuit at rack, equipment room **(FV-3).**

BY OTHERS — RECEPTACLE

RCPT - 120VAC - 5-15R → **P-08 VMQ-001 POWER (AV-101)**

IN — **RCP-P** — OUT

At projector **(FV-5).** Point-of-use SPD in LOT-001.

BY OTHERS — RECEPTACLE

RCPT - 120VAC - 5-15R → **P-09 C10-001 POWER (AV-101)**

IN — **RCP-C** — OUT

At Clerk workstation. Point-of-use SPD in LOT-001.

EQUIPMENT ROOM - RACK BRK-001

Netgear — GSM4230UP-100NAS

N-19 LAN-1 UPLINK →	P25 - DATA - RJ45	P1 - POE++ - RJ45 → **N-01 NV32-001 LAN A (AV-101)**
	P26 - DATA - RJ45	P2 - POE++ - RJ45 → **N-02 NVM-001 LAN (AV-101)**
	SFP 1-4 - DATA - SFP	P3 - POE++ - RJ45 → **N-03 NC-001 LAN (AV-102)**
	CONSOLE - CTRL - RJ45	P4 - POE++ - RJ45 → **N-04 NC-002 LAN (AV-102)**
P-02 UPS-001 O1 →	PSU 1 - 120VAC - IEC	P5 - POE++ - RJ45 → **N-05 TSC-001 LAN (AV-101)**
	PSU 2 - 120VAC - IEC	P6 - POE++ - RJ45 → **N-06 C1-001 LAN (AV-104)**
		P7 - POE++ - RJ45 → **N-07 ANI-001 LAN (AV-103)**
		P8 - POE++ - RJ45 → **N-08 ANI-002 LAN (AV-103)**
		P9 - POE++ - RJ45 → **N-09 ANI-003 LAN (AV-103)**
		P10 - POE++ - RJ45 → **N-10 A22-001 LAN (AV-103)**
		P11 - POE++ - RJ45 → **N-11 MIN-001 LAN (AV-103)**
		P12 - POE++ - RJ45 → **N-12 MIN-002 LAN (AV-103)**
		P13 - POE++ - RJ45 → **N-13 FM-001 DANTE (AV-104)**
		P14 - POE++ - RJ45 → **N-14 SPA-001 LAN (AV-104)**
		P15 - POE++ - RJ45 → **N-15 PM-001 LAN (AV-102)**
		P16 - POE++ - RJ45 → **N-16 ATW-001 LAN (AV-103)**
		P17 - POE++ - RJ45 → **N-17 VMQ-001 LAN (AV-101)**
		P18 - POE++ - RJ45 → **N-18 C10-001 LAN (AV-101)**
		P19 - POE++ - RJ45 → **N-22 ATW-002 LAN (AV-103)**
		P20 - POE++ - RJ45 → **N-23 SPA-002 LAN (AV-104)**
		P21 - POE++ - RJ45
		P22 - POE++ - RJ45
		P23 - POE++ - RJ45
		P24 - POE++ - RJ45

IN — **GSM-001** — OUT

M4250-26G4F-PoE++ **(RFI-07).** AV VLAN: Q-LAN + Dante QoS, IGMP snooping + querier, EEE off. Spare P12, P19-P24, P26, SFP (options use P12, P19, P20).

W Box — 0E-RCKMT2200

P-01 RCP-1 RCPT →	AC IN - 120VAC - 5-20P	O1 - 120VAC - 5-15R → **P-02 GSM-001 PSU 1**
	USB - DATA - USB-B	O2 - 120VAC - 5-15R → **P-03 SPA-001 POWER (AV-104)**
		O3 - 120VAC - 5-15R → **P-04 PM-001 POWER (AV-102)**
		O4 - 120VAC - 5-15R → **P-05 ATW-001 POWER (AV-103)**
		O5 - 120VAC - 5-15R → **P-06 FM-001 POWER (AV-104)**
		O6 - 120VAC - 5-15R → **P-07 CNV-001 POWER (AV-102)**
		O7 - 120VAC - 5-15R → **P-10 ATW-002 POWER (AV-103)**
		O8 - 120VAC - 5-15R → **P-11 SPA-002 POWER (AV-104)**

IN — **UPS-001** — OUT

2,000 VA / 1,540 W, rack RU 1-2. O7, O8 spare (City gear, Add. 1 A9); used by options ATW-002 / SPA-002 if taken. Shutdown **RFI-14.**

CABLE SCHEDULE

ID	From	To	Type (supplied by)	Route / notes
N-01	GSM-001 P1	NV32-001 LAN A	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-02	GSM-001 P2	NVM-001 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-03	GSM-001 P3	NC-001 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-04	GSM-001 P4	NC-002 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-05	GSM-001 P5	TSC-001 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-06	GSM-001 P6	C1-001 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-07	GSM-001 P7	ANI-001 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-08	GSM-001 P8	ANI-002 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-09	GSM-001 P9	ANI-003 LAN	Cat6 plenum, RJ45 (TCT)	In rack
N-10	GSM-001 P10	A22-001 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-11	GSM-001 P11	MIN-001 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-13	GSM-001 P13	FM-001 DANTE	Cat6 plenum, RJ45 (TCT)	In rack
N-14	GSM-001 P14	SPA-001 LAN	Cat6 plenum, RJ45 (TCT)	In rack
N-15	GSM-001 P15	PM-001 LAN	Cat6 plenum, RJ45 (TCT)	In rack
N-16	GSM-001 P16	ATW-001 LAN	Cat6 plenum, RJ45 (TCT)	In rack
N-17	GSM-001 P17	VMQ-001 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers

ID	From	To	Type (supplied by)	Route / notes
N-18	GSM-001 P18	C10-001 LAN	Cat6 plenum, RJ45 (TCT)	Rack to chambers
N-19	LAN-1 UPLINK	GSM-001 P25	Cat6 patch (TCT) to City port	Equipment room **(RFI-15)**
N-12	GSM-001 P12	MIN-002 LAN	Cat6 patch (OPTION A4c)	In rack
N-22	GSM-001 P19	ATW-002 LAN	Cat6 patch (OPTION A4b)	In rack
N-23	GSM-001 P20	SPA-002 LAN	Cat6 patch (OPTION A6)	In rack
P-01	RCP-1 RCPT	UPS-001 AC IN	UPS cord (supplied)	Equipment room
P-02	UPS-001 O1	GSM-001 PSU 1	Supplied cord / PSU	In rack
P-03	UPS-001 O2	SPA-001 POWER	Supplied cord / PSU	In rack
P-04	UPS-001 O3	PM-001 POWER	Supplied cord / PSU	In rack
P-05	UPS-001 O4	ATW-001 POWER	Supplied cord / PSU	In rack
P-06	UPS-001 O5	FM-001 POWER	Supplied cord / PSU	In rack
P-07	UPS-001 O6	CNV-001 POWER	Supplied cord / PSU	In rack
P-08	RCP-P RCPT	VMQ-001 POWER	Supplied cord + SPD	Ceiling at projector
P-09	RCP-C RCPT	C10-001 POWER	Supplied PSU + SPD	Clerk credenza
P-10	UPS-001 O7	ATW-002 POWER	Supplied PSU (OPTION A4b)	In rack
P-11	UPS-001 O8	SPA-002 POWER	Supplied cord (OPTION A6)	In rack

All cable plenum rated; Cat6 terminated RJ45. Brady labels both ends: room + cable ID. Flagged cables are run and labeled like drawn ones.

LEGEND

- Ethernet with PoE (N-)
- Ethernet / Q-LAN (N-)
- 120 V AC power (P-)
- **N-02 TAG PORT** — Continuation flag: cable picks up at the named tag and port
- **RFI-xx** — Open item, RFI-001
- TCT equipment: navy header. By others: gray.

Blocks: header = mfr | model; rows = port - signal - connector, inputs left, outputs right; footer = IN | tag | OUT. Codes: DVID HDMI; DATA Ethernet/USB; POE, POE+, POE++ powered Ethernet; CTRL RS-232/IR/GPIO; AUDIO analog; DAUD digital; SPKR speaker; VID analog video; RF coax. All devices new (N).

NOTES

1. GSM-001 carries one isolated AV VLAN (Q-LAN, Dante, Mediacast, control) with QoS (Audinate preset), IGMP snooping and querier, EEE off. Uplink P25 to City network for streaming, NAS and remote support **(RFI-15).**
2. All PoE devices are powered from GSM-001 on UPS-001, so the Clerk workstation core (NV32-001) rides through outages.
3. UPS-001 on dedicated 20 A circuit RCP-1 (by others). Orderly shutdown / programmed recovery **RFI-14.**
4. Listed point-of-use surge protection at RCP-P and RCP-C (LOT-001), RFP 5.8.9 **(RFI-09).**
5. Spectrum and telephone equipment stay on the wall where they are; not moved into BRK-001 (Add. 1 A7, A9).
6. PoE budget: AV-301.

THIRD COAST TECH

Proj # : TCT-2441

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WORK IN PROGRESS - NOT FOR CONSTRUCTION

PROPOSAL DESIGN - PENDING SITE SURVEY AND RFI RESPONSES. NOT FOR CONSTRUCTION.

Client:
City of Belle Isle, FL

Project:
Council Chambers AV Modernization

Room:
Council Chambers + equipment room

Site:
Belle Isle City Hall, 1600 Nela Avenue, Belle Isle, FL 32809

Basis of design:
RFP 2026-06 (10/01/2026), Highlights, Addenda 1 and 2 (10/27/2026), TCT quote TCT-2441 rev 0 and pick list (11/04/2026). No City drawings exist; room per Addendum 1 A2 (RFI-01).

Drawn	**TCT Engineering**
Date	**11/04/2026**
Scale	**As noted**
Sheet size	**ARCH D 24x36**

AV-105 Network / Power

AV switch, UPS, by-others services and power distribution.

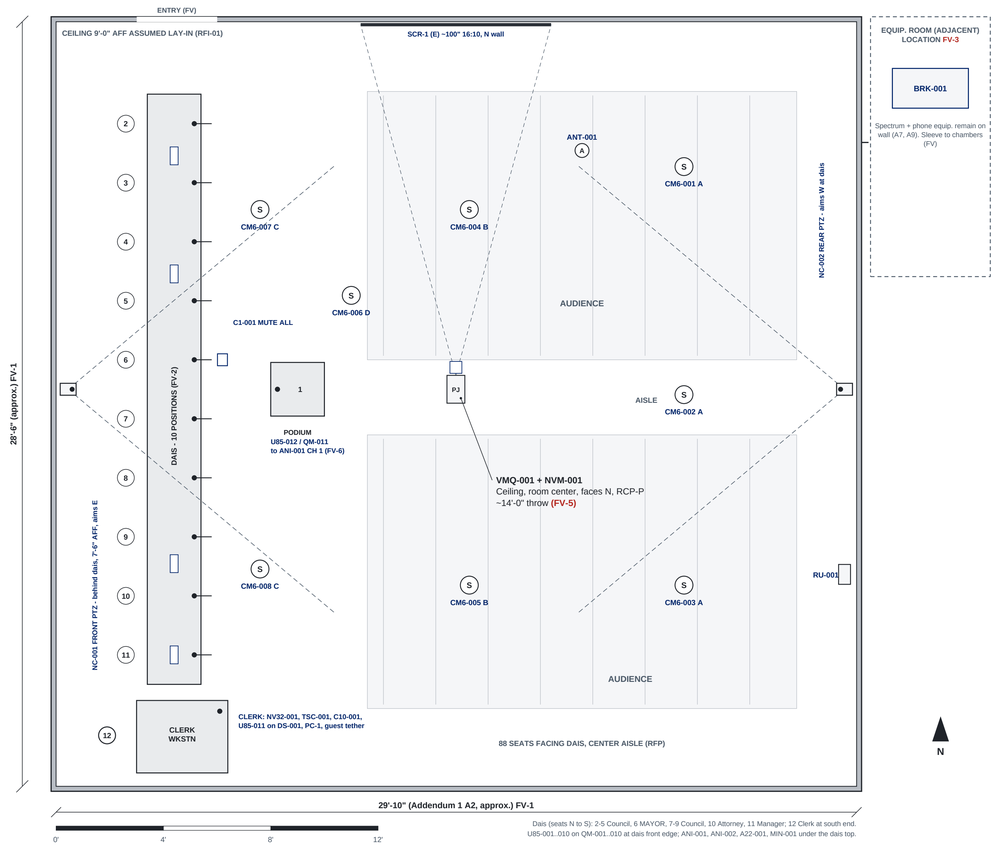
AV-105 8/13

ROOM INSTALLATION AND RACK - COUNCIL CHAMBERS

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | Plan drawn from Addendum 1 A2 dimensions - no City drawings exist. All locations are TCT assumptions to confirm in the post-award survey (FV-1..8, RFI-01, RFI-02).

1 - FLOOR PLAN - COUNCIL CHAMBERS (ASSUMED LAYOUT)

3/8" = 1'-0". North up.



Dais (seats N to S): 2-5 Council, 6 MAYOR, 7-9 Council, 10 Attorney, 11 Manager; 12 Clerk at south end.
U85-001..010 on QM-001..010 at dais front edge; ANI-001, ANI-002, A22-001, MIN-001 under the dais top.

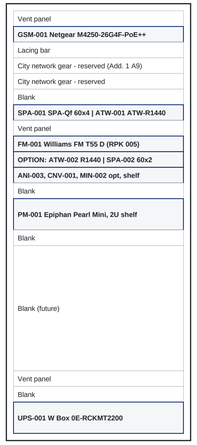
FIELD DEVICE SCHEDULE

Tag	Device	Location	Mount	Cables	Power	Notes
NC-001	Q-SYS NC12X80 PTZ (front)	West wall, centered behind dais	W 7'-6"	N-03, V-06	PoE	Presets: podium, audience, staff, wide
NC-002	Q-SYS NC12X80 PTZ (rear)	East wall, center, facing dais	W 7'-6"	N-04, V-07	PoE	Presets: each dais seat, Mayor, Clerk, wide
VMQ-001	Panasonic PT-VMQ65BU	Ceiling, room center, faces N (~14' throw)	C	V-05, N-17, P-08	RCP-P	Throw FV-5 (RFI-18)
NVM-001	Q-SYS NVM-302D	Ceiling at projector	C	N-02, V-05	PoE	RFI-06
SCR-1	Existing motorized screen	North wall (plan north)	W (E)	C-01	Existing	Retain per A11 (FV-4)
CM6-001...008	SoundTube CM62-EZ-II-WH	Ceiling per plan (A, B, C, D)	C	S-01..04	SPA-001	16 ohm; 003, 005 = A5
ANT-001 / RU-001	FM antenna / ATW-RU14	Ceiling center / east wall high	C / W 7'	R-01 / N-20	- / PoE link	Line of sight to dais
U85-001...010	U859QL on AT-8662	Dais pos 2-11	D	A-01..10	Phantom	Flush mount, FV-2 (RFI-10)
ANI-001, 002	Shure ANI4IN-XLR	Under dais N / center	D	A-01..07, A-12, N-07, 08	PoE	Mount under top
A22-001, MIN-001	Shure ANI22-XLR, Turtle MICro	Under dais S / Clerk end	D	A-08..11, N-10, N-11	PoE	Mount under top
U85-012	U859QL on AT-8662	Podium, center aisle, faces dais	D	A-12 to ANI-001	Phantom	Path FV-6
C1-001	Q-SYS Axon C1	Mayor pos 6	D surface box	N-06	PoE	Mute all
NV32-001, TSC-001	NV-32-H, TSC-101-G3 + TSC-710t-G3	Clerk workstation	D	N-01, N-05, V-01..04, C-01	PoE	Under-desk shelf / desk top
C10-001, U85-011	ClickShare C-10 Gen2, U859QL on AT8699R	Clerk workstation	D	V-03, N-18, P-09, A-11	RCP-C	Guest HDMI / USB-C tether
MON-001..010, SPL-001	OPTION LG 19BA300 x10, OREI UHDS-1016	Dais, each seat	D	V-09, V-10..19	Dais rcpt	Option O1-O4
RU-002, OSP-001, 002	OPTION ATW-RU14; SM500i-II-WX	East wall by RU-001; exterior wall	W	N-21; S-05, S-06	Link; SPA-002	Options A4b, O5

Mount codes: W wall, D desk / dais, C ceiling, FL floor; heights AFF. All locations assumed (RFI-02).

2 - RACK ELEVATION - BRK-001 STRONG SR-FS-SYSTEM-DC-27U

Front, proposed. 1-1/2" = 1'-0". 27 RU. Equipment room (FV-3). Confirm against submittals (RFI-13).



Rack notes

1. Equipment 9 RU, City reserve 2 RU, spare 16 RU (59% free). Vent above amp and UPS.
2. UPS-001 at bottom (weight). All rack devices on UPS outlets O1-O6; O7-O8 spare.
3. Locking casters or floor anchoring per Add. 1 A9; rear lacing and power / signal separated.
4. Rack ground to building ground; listed SPD per RFP 5.8.9.
5. Labels: Brady, room + cable ID (F501.01). Rack per ANSI/AVIXA F502.01.

FIELD VERIFY BEFORE INSTALL

FV	Item	Shown as
FV-1	Room dimensions, ceiling height and type (Addendum 1 A2: 29'-10" x 28'-6")	As stated, 9'-0" ACT
FV-2	Dais layout, seat order, depth of dais top, under-dais access for ANI-001..003	Straight dais, 10 seats
FV-3	Equipment room location, wall space, power (20 A) and cooling for BRK-001	Adjacent NE
FV-4	Existing screen: size, surface, motor, control interface, mounting (Add. 1 A11)	~100" 16:10, north wall
FV-5	Projector throw and mount structure; receptacle at projector (RCP-P)	Room center, faces N, ~14' throw
FV-6	Podium location and cable path (floor box / dais)	West side
FV-7	Camera mounting surfaces and sightlines (NC-001 behind dais / NC-002 facing dais)	7'-6" AFF
FV-8	Existing conduit / cabling proposed to remain, Spectrum / phone equipment on wall (A7, A9)	Protect, do not move

INSTALLATION NOTES

1. Survey before ordering: dimensions, pathways, power, screen, dais construction (FV-1..8). Report concealed conditions in writing before proceeding (RFP Exhibit B 1.5).
2. Protect dais, furnishings and finishes; room left clean and usable for scheduled meetings each day (RFP J).
3. Remove existing AV equipment and abandoned AV cabling; return to the City with disposition inventory (Add. 1 A7).
4. Cameras on PTZ-WMB1 brackets into blocking or anchors rated for the load; projector mount to structure, not ceiling grid.
5. Ceiling speakers on tile bridges with support wires; no cable on ceiling grid; plenum cable in plenum; firestop penetrations.
6. Dais mics: core / flush mount AT-8662 at each seat (FV-2); keep dais finish; ANI-001, 002, A22-001, MIN-001 under the top.

PLAN LEGEND

- (S) Ceiling speaker, zone letter
- ● Gooseneck mic; numbered circle = seat / position
- ▭ PTZ camera with 80 deg field of view (dashed)
- ▭ Network / Dante endpoint (ANI, C1, NVM)
- ▬ Projection screen (existing)
- ▭ Furniture (assumed, FV)

THIRD COAST TECH

Proj # : TCT-2441

Third Coast Tech, LLC
3485 Steel Rail Drive, Ste 101
Bunnell, FL 32110
1-800-828-9517

WIP - 11/04/2026

WORK IN PROGRESS - NOT FOR CONSTRUCTION

PROPOSAL DESIGN - PENDING SITE SURVEY AND RFI RESPONSES. NOT FOR CONSTRUCTION.

Client:
City of Belle Isle, FL

Project:
Council Chambers AV Modernization

Room:
Council Chambers + equipment room

Site:
Belle Isle City Hall, 1600 Nela Avenue, Belle Isle, FL 32809

Basis of design:
RFP 2026-06 (10/01/2026), Highlights, Addenda 1 and 2 (10/27/2026), TCT quote TCT-2441 rev 0 and pick list (11/04/2026). No City drawings exist; room per Addendum 1 A2 (RFI-01).

Drawn	**TCT Engineering**
Date	**11/04/2026**
Scale	**As noted**
Sheet size	**ARCH D 24x36**

AV-201 Room Installation

Floor plan with device locations (assumed), field device schedule, rack elevation, field verify list, installation notes.

AV-201 9/13

EQUIPMENT SCHEDULE - COUNCIL CHAMBERS

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | Tags are the D-Tools Component IDs in the BOM CSV. PO = quote line (quote order); A# = TCT add for RFP compliance; O# = option. Status N new, E existing.

EQUIPMENT SCHEDULE

Tag	PO	Qty	Status	Mfr	Model	Description	Mount / location	Power	Network	Notes
C10-001	5	1	N	Barco Commercial	ClickShare C-10 Gen2 - US version with 2 Buttons	Wireless presentation base unit + 2 Buttons, TAA, black. AirPlay / Google Cast / Miracast / App	Clerk workstation credenza (D)	12 VDC PSU from RCP-C (P-09)	N-18 (GSM P18)	Wi-Fi / network mode per City IT (RFI-15)
VMQ-001	6	1	N	Panasonic	PT-VMQ65BU	6,500 lm 4K (3840x2400 pixel-shift) 3LCD laser projector, 1.6x zoom lens, black	Ceiling, projector mount in LOT-001 (C)	120 V at RCP-P (P-08)	N-17 (GSM P17), LAN control	Throw / mount per AV-201 (RFI-18)
NV32-001	7	1	N	QSC	NV-32-H (Core Capable)	Network video endpoint in Core Mode: room processor, 3 HDMI in / 2 HDMI out switching, AEC, Q-LAN, control	Clerk workstation, under-desk shelf (D)	PoE++ from GSM P1 (N-01), UPS-backed	N-01 LAN A	Core of the system. Mediacast encoder to NVM-001 (RFI-06)
CMS-001	7a	1	N	QSC	SLQCMS-NV32-P	Core Mode Video Streaming license, perpetual, for NV32-001	-	-	-	Lets NV32-001 encode while running as the Core
NVM-001	8	1	N	QSC	NVM-302D	Mediacast network HDMI decoder at the projector	Ceiling, beside projector (C)	PoE from GSM P2 (N-02)	N-02	Decode of NV-32-H Core Mode stream to confirm (RFI-06)
DAN-001	9	1	N	QSC	SL-DAN-32-P	Software Dante 32x32 license, perpetual, for NV32-001	-	-	-	16 Dante RX / 1 TX used (ANI4IN x3, ANI22, MICro, FM T55 D)
TSC-001	10	1	N	QSC	TSC-101-G3	10.1" PoE touch screen controller - primary operator interface (UCI)	Clerk workstation, on TST-001 (D)	PoE+ from GSM P5 (N-05)	N-05	Password-protected admin pages
TST-001	10a	1	N	QSC	TSC-710t-G3	Table top mounting accessory for TSC-70-G3 / TSC-101-G3	Clerk workstation (D)	-	-	Cable through desk grommet
DS-001	12	1	N	Audio Technica	AT8699R	Quick-mount desk stand, programmable switch (touch on/off, to talk, to mute), LED mic status	Clerk workstation (D)	Phantom via MIN-001 IN 2	-	Holds U85-011 (Clerk). Switch mutes at the stand; Q-SYS does not see it
ATW-001	13	1	N	Audio-Technica	ATW-1423/L	System 20 PRO: ATW-R1440 4-ch receiver (incl. ATW-RU14 remote receiver unit), ATW-T1402 handheld, ATW-T1401 bodypack + MT830cW lavalier [HH-001, LAV-001]	Rack, half-rack shelf; RU-001 on chambers wall (W)	12 VDC adapter, UPS O4 (P-05)	N-16 (GSM P16)	Rechargeable. Ch1 LAV-001, Ch2 HH-001, Ch3 HH-002, Ch4 DST-001; OUT 1-4 to ANI-003 in rack
HH-002	14	1	N	Audio-Technica	ATW-T1402	System 20 PRO handheld transmitter (2nd handheld per RFP)	Charging dock at clerk workstation	Rechargeable	-	Receiver Ch3
DST-001	15	1	N	Audio-Technica	ATW-T1407	System 20 PRO desk stand transmitter, XLRF gooseneck socket, mute switch, Li-ion	Portable table position	Rechargeable	-	Needs a gooseneck: U85-013 added (A2). Purpose RFI-11
U85-001..012	16	12	N	Audio-Technica	U859QL	Cardioid condenser quick-mount gooseneck, integral power module, phantom only, 18.90"	Dais pos 2-11 (U85-001..010), Clerk (011), Podium (012) (D)	Phantom from ANI-00x	-	Mic table: pos 1 podium, 2-5 Council, 6 Mayor, 7-9 Council, 10 Attorney, 11 Manager, 12 Clerk
QM-001..012	16a	12	N	Audio-Technica	AT-8662	Microphone shock mount for quick-mount gooseneck, flush desk install	Dais pos 2-11 (QM-001..010), podium (QM-011); QM-012 spare	-	-	No switch / LED at dais seats (RFI-10)
GSM-001	17	1	N	Netgear	GSM4230UP-100NAS	M4250-26G4F-PoE++ AV Line managed switch: 24x 1G Ultra90 PoE++, 2x 1G, 4x SFP. Q-SYS / Dante AV profiles	Rack (BRK-001)	UPS O1 (P-02)	P25 uplink to City (N-19)	US SKU; quote / pick list show Europe GSM4230UP-100EUS (RFI-07)
C1-001	18	1	N	QSC	Axon C1	Attero Tech Axon C1 single-gang networked controller, OLED, encoder/push, black + white trims	Mayor position, dais (D/surface box)	PoE from GSM P6 (N-06)	N-06	Mayor MUTE ALL (incl. podium) with status on OLED
SPA-001	19	1	N	QSC	SPA-QF60X4	4-ch network power amplifier, 60 W/ch, Q-LAN	Rack, half-rack shelf	UPS O2 (P-03)	N-14 (GSM P14)	A audience N (5.3 ohm), B audience S (8 ohm), C dais (8 ohm), D podium area (16 ohm). All channels used
A22-001	20	1	N	Shure	ANI22-XLR	2-ch mic/line in + 2-ch out Dante network interface. XLR, phantom, PoE	Under dais, east (D)	PoE from GSM P10 (N-10)	N-10	Dais pos 9 (IN 1) and pos 10 (IN 2); outputs spare
ANI-001..003	21	3	N	Shure	ANI4IN-XLR	4-ch mic/line Dante network interface, XLR, phantom, PoE	ANI-001 under dais W, ANI-002 under dais center (D); ANI-003 rack shelf	PoE from GSM P7-P9 (N-07..09)	N-07..09	ANI-001: podium + pos 2-4; ANI-002: pos 5-8; ANI-003: wireless receiver Ch1-4. No spare inputs
CM6-001..006	22	6	N	SoundTube	CM62-EZ-II-WH	6.5" 2-way in-ceiling loudspeaker, white, 16 ohm bypass / 70-100 V taps, 90 dB 1 W / 1 m, 50 W RMS	Ceiling tile bridge (C)	SPA-001 A-D (S-01..04)	-	16 ohm bypass. Zone A CM6-001..003 (3 in parallel = 5.3 ohm), B CM6-004, 005 (8 ohm), D CM6-006 podium-area (16 ohm), C CM6-007, 008 dais (8 ohm). With A5: 8 total (RFI-22)
MIN-001	24	1	N	Turtle	TAV-MINEOLAMICRO	Mineola MICro 2-ch XLR/TRS mic/line to Dante, preamps, phantom, PoE, DSP	Under dais, east end at Clerk (D)	PoE from GSM P11 (N-11)	N-11	Dais pos 11 (Manager) and pos 12 (Clerk)
FM-001	27	1	N	Williams AV	FM 558 PRO D	FM+ PRO assistive listening package with Dante: FM T55 D transmitter (FM + Wi-Fi), 4 R38 receivers, 4 EAR 022, 2 NKL 001 neckloops, chargers, ANT 005 remote antenna, RPK 005 rack kit, IDP 008 ADA plaque	Rack (RPK 005); ANT-001 in chambers; plaque at entry	24 VDC adapter, UPS O5 (P-06)	N-13 Dante (GSM P13)	ALS mix over Dante. 7 receivers total with R38-005..007
R38-005..007	28	3	N	Williams AV	PPA R38N	FM receiver, 17 channel, OLED (adds to 4 in FM 558 PRO D = 7)	Charging stored at clerk	Rechargeable NiMH	-	Quote text says "added to reach 48 receivers" - 7 total intended
EAR-005..007	26	3	N	Williams AV	EAR022	Surround earphone for R38-005..007	-	-	-	-
CHG-001, 002	29	2	N	Williams Sound	BATKT6	Dual drop-in charger kit with 2 BAT 026-2 AA NiMH batteries	Clerk workstation / storage	Wall adapter	-	With package chargers covers all 7 receivers (RFI-21)
CNV-001	30	1	N	Blackmagic Design	MICRO CONVERTER SDI TO HDMI 3G PSU	Micro Converter SDI to HDMI 3G with power supply: NC-002 SDI into PM-001 HDMI B	Rack shelf	PSU from UPS O6 (P-07)	-	Quote text reads "power supply unit for...."; confirm it is the converter-with-PSU SKU (RFI-08)
PM-001	31	1	N	Epiphan Video	Pearl Mini	Live production / streaming / recording appliance: 2x HDMI + 1x SDI in, simultaneous RTMP(S) to YouTube and Facebook, local + network recording, touch-screen status	Rack, 2U shelf	12 VDC adapter, UPS O3 (P-04)	N-15 (GSM P15)	Includes 250 GB SD card and Sabrent CB-DB9P USB-serial (service console)
USB-001	31a	1	N	Sabrent	CB-DB9P	USB 2.0 to RS-232 DB9 adapter cable, 2.5 ft	Rack	-	-	Service console (GSM-001 / UPS)
SD-001	31b	1	N	TCT	SD Card	SD card for PM-001 local recording	In PM-001	-	-	Recording copy 1
NC-001, 002	32	2	N	QSC	NC12X80	Network PTZ camera, 12x optical, 80 deg HFOV, PoE Class 3, HDMI / 3G-SDI out, PTZ-WMB1 bracket	NC-001 front (west wall, centered behind dais), NC-002 rear (east wall center) (W 7'-6" AFF)	PoE from GSM P3, P4 (N-03, N-04)	N-03, N-04	Presets per AV-201. Mount surfaces FV-7
BRK-001	34	1	N	Strong	SR-FS-SYSTEM-DC-27U	Floor-standing AV rack system, 27U. Locking casters / securing method per Add. 1 A9; dims and accessories per A10	Equipment room (FL)	-	-	Casters, depth, vent and accessories to confirm (RFI-13)
UPS-001	35	1	N	W Box Technologies	0E-RCKMT2200	2,000 VA / 1,540 W line-interactive rack UPS, 2U, AVR, LCD, 8 outlets	Rack, RU 1-2	RCP-1 20 A circuit (P-01)	USB (shutdown signal RFI-14)	Orderly shutdown / recovery RFI-14
U85-013	A2	1	N	Audio-Technica	U859QL	Gooseneck for DST-001 desk stand transmitter	On DST-001	DST-001	-	TCT add - all 12 quoted goosenecks are assigned (RFI-11)
CM6-007, 008	A5	2	N	SoundTube	CM62-EZ-II-WH	2 additional ceiling loudspeakers so the audience area has 6 (even coverage at 9 ft ceiling)	Ceiling tile bridge (C)	SPA-001 (S-01..04)	-	TCT add - coverage calc on RFI-22. Same model, no amp change
LOT-001	11, 23, 25, 33, O4	5 lots	-	TCT	Lot - Wire & Materials	Quote "TCT Hardware" lines (video, audio, ALS, broadcast): projector mount, AOC HDMI, Cat6, SDI coax, speaker cable, connectors, plates, shelves, blanks, labels, point-of-use surge protection. See LOT-001 contents	-	-	-	Contents RFI-09
-	1-4	lot	-	TCT	Labor	Installation, programming, project management; quote line 4 ($1,316.00) has no description	-	-	-	Training, first-meeting engineer, documentation, maintenance not itemized (RFI-20)
MON-001..010	O1	10	OPT	LG	19BA300	OPTION - Dais confidence monitors: LG 18.5" HD business monitor, HDMI / DP / D-sub, VESA, one per dais seat	Dais, low-profile VESA mount (D)	Dais receptacles (by others)	-	1366 x 768 native - below RFP Full HD minimum; US SKU to confirm (RFI-19)
SPL-001	O2	1	OPT	OREI	UHDS-1016	OPTION - 1x16 HDMI 2.0 splitter, 4K60, HDCP 2.2, EDID management; feeds MON-001..010 from NV32-001 HDMI OUT 1	Under dais (D)	PSU at dais receptacle	-	10 outputs used, 6 spare. HDMI runs 30 ft max per OREI
LAV-002	A4	1	OPT	Audio-Technica	ATW-T1401	OPTION (RFP required) - 2nd rechargeable lavalier: System 20 PRO bodypack + MT830cW	Charging at clerk	Rechargeable	-	TCT add - separately priced option "shall" be provided (RFI-04). Fifth transmitter: pairs to ATW-002 (A4b), audio to MIN-002 (A4c)
MT8-001	A4a	1	OPT	Audio-Technica	MT830cW	OPTION - lavalier capsule for LAV-002	-	-	-	With LAV-002
ATW-002	A4b	1	OPT	Audio-Technica	ATW-R1440	OPTION - System 20 PRO 4-ch receiver (ATW-RC14 chassis + ATW-RU14 receiver unit) for LAV-002; linked to ATW-001	Rack RU 18, half-rack; RU-002 on chambers wall next to RU-001 (W)	12 VDC adapter, UPS O7 (P-10)	N-22 (GSM P19); N-21 to RU-002	TCT add - ATW-001 is full (4 transmitters). OUT 1 used, OUT 2-4 spare. Link cable to ATW-001 (C-02, supplied)
MIN-002	A4c	1	OPT	Turtle	TAV-MINEOLAMICRO	OPTION - Mineola MICro 2-ch Dante mic / line interface, PoE, for ATW-002 OUT 1	Rack shelf RU 17	PoE from GSM P12 (N-12)	N-12 (GSM P12)	TCT add - all 16 base inputs are used. IN 2 spare. Uses Dante RX 17 of 32
OSP-001, 002	O5	2	OPT	SoundTube	SM500i-II-WX	OPTION - outdoor surface-mount speakers (white)	Exterior wall	SPA-002 OUT A / B (S-05, S-06), 4 ohm direct	-	RFP excludes exterior / patio speakers from base scope - recommend withdrawing (RFI-20)
SPA-002	A6	1	OPT	QSC	SPA-QF60X2	OPTION - 2-ch network power amplifier, 60 W/ch at 4 ohm, Q-LAN, half-rack 1RU, for OSP-001, 002	Rack RU 18, half-rack	UPS O8 (P-11)	N-23 (GSM P20)	TCT add - SPA-001 has no free channel. One speaker per channel, 4 ohm direct, 60 W each

POE BUDGET - GSM-001 (WORST-CASE CLASS ALLOCATION)

Device (port)	Class	W
NV32-001 NV-32-H (P1)	802.3bt Type 4	90.0
NVM-001 NVM-302D (P2)	802.3at (TBV)	30.0
NC-001 NC12X80 (P3)	Class 3	15.4
NC-002 NC12X80 (P4)	Class 3	15.4
TSC-001 TSC-101-G3 (P5)	802.3at Class 4	30.0
C1-001 Axon C1 (P6)	802.3af	15.4
ANI-001..003 ANI4IN-XLR (P7-P9)	802.3af x3	46.2
A22-001 ANI22-XLR (P10)	802.3af	15.4
MIN-001 Mineola MICro (P11)	802.3af	15.4
TOTAL allocated		273.2
GSM4230UP budget (1 PSU / 2 PSU)		720 / 1,440
Headroom on 1 PSU		62%

Allocation at class maximum, PSE side. ATW-001, FM-001, SPA-001, PM-001, VMQ-001, C10-001 are not PoE. Per-port limits: NV-32-H needs 802.3bt Type 4 on P1 (Ultra90 port).

LOT-001 CONTENTS (WIRE AND MATERIALS)

#	Item	System
1	Projector ceiling mount, extension column and ceiling plate (model by ceiling structure, FV-5)	Video
2	Active optical (AOC) HDMI 2.0 cable, Clerk workstation to rack (V-04), plenum	Video
3	HDMI 2.0 cords 3-6 ft (V-01, V-03, V-05, V-08) and guest HDMI tether with USB-C adapter ring	Video
4	3G-SDI RG6 plenum coax with BNC (V-06, V-07)	Broadcast
5	Cat6 plenum, RJ45, keystones, plates; 22 AWG shielded mic cable; 16/2 plenum speaker cable	All
6	Low-voltage relay interface and cable to screen LVC (C-01)	Video
7	Rack shelves, blank / vent panels, lacing bars, Velcro, Brady labels	Rack
8	Listed point-of-use surge protectors at RCP-P, RCP-C and dais (RFP 5.8.9)	Power
9	Under-dais mounting for ANI-001..003, surface box for C1-001, desk grommets	Audio
10	ADA assistive listening sign (IDP 008 in FM-001 package) installation	ALS

INFRASTRUCTURE BY OTHERS

Item	Location	By
RCP-1 dedicated 20 A circuit, 5-20R	Equipment room at rack	City electrician (RFI-09)
RCP-P receptacle	Ceiling at projector	City electrician / existing (FV-5)
RCP-C receptacle	Clerk workstation	Existing (FV)
LAN-1 uplink port, VLAN, firewall, NAS share	Equipment room	City / Eola Technology (RFI-15)
City PC / laptop (PC-1)	Clerk workstation	City (Dell)
Facility-level surge protection (if recommended)	Electrical service	City (separately identified)

THIRD COAST TECH

Proj # : TCT-2441

Third Coast Tech, LLC
3485 Steel Rail Drive, Ste 101
Bunnell, FL 32110
1-800-828-9517

WIP - 11/04/2026

WORK IN PROGRESS - NOT FOR CONSTRUCTION

PROPOSAL DESIGN - PENDING SITE SURVEY AND RFI RESPONSES. NOT FOR CONSTRUCTION.

Client:
City of Belle Isle, FL

Project:
Council Chambers AV Modernization

Room:
Council Chambers + equipment room

Site:
Belle Isle City Hall, 1600 Nela Avenue, Belle Isle, FL 32809

Basis of design:
RFP 2026-06 (10/01/2026), Highlights, Addenda 1 and 2 (10/27/2026), TCT quote TCT-2441 rev 0 and pick list (11/04/2026). No City drawings exist; room per Addendum 1 A2 (RFI-01).

Drawn	**TCT Engineering**
Date	**11/04/2026**
Scale	**As noted**
Sheet size	**ARCH D 24x36**

AV-301 Equipment Schedule

Every quote / pick list line, TCT adds and options; PoE budget; LOT-001 contents.

AV-301 10/13

RFP CONFORMANCE AND COMMISSIONING

TCT-2441 | City of Belle Isle, FL | Belle Isle City Hall | One row per RFP / addendum requirement that drives the design. Status MATCH, ADDED (TCT add), NOTE (decision or clarification). Commissioning per ANSI/AVIXA 10 and RFP Deliverable C.

RFP / ADDENDA CONFORMANCE MATRIX

#	Requirement	Source	How met	TCT tags	Status	RFI
1	All principal AV equipment new, current production, supported, interoperable	RFP NEW SYSTEM 1-2	All new; Q-SYS core platform	All	MATCH	-
2	Existing motorized screen may be retained if suitable	Add. 1 A11	Retained; replacement priced if unsuitable	SCR-1	NOTE	RFI-12
3	Two PTZ cameras with presets, front and rear	Exh. A	NC-001 front, NC-002 rear, presets on TSC	NC-001, 002	MATCH	-
4	Coverage of dais, podium, staff, presenters, audience	Exh. A	Camera locations / FOV on AV-201	NC-001, 002	MATCH	FV-7
5	12 goosenecks: 10 dais, Clerk, podium	Exh. A, mic table	U859QL x12 + AT-8662 / AT8699R	U85-001..012	MATCH	-
6	1 rechargeable lavalier + 2 rechargeable handhelds	Exh. A	ATW-1423/L + ATW-T1402; OUT 1-4 to ANI-003	ATW-001, ANI-003	MATCH	-
7	2nd lavalier separately priced (shall)	Exh. A	Option A4: ATW-T1401 + MT830cW, ATW-R1440, MICro	LAV-002, ATW-002, MIN-002	ADDED	RFI-04
8	Mayor mutes all mics incl. podium; Clerk mutes podium	Exh. A Dais / Podium	C1-001 + TSC-001 logic	C1-001, TSC-001	MATCH	-
9	Mic and mute status indication	Exh. A Dais	TSC + C1 status; per-seat LED only at Clerk	DS-001, QM-xxx	NOTE	RFI-10
10	Automatic DSP, feedback control; separate mixes	Exh. A	NV32-001 automixer, AEC, 4 mixes (AV-104)	NV32-001	MATCH	-
11	New projector-based primary display, 1080p min, 4K preferred	Exh. A Video	PT-VMQ65BU 4K + NVM-302D	VMQ-001	MATCH	RFI-06
12	City PC, temp device, HDMI, USB-C (Clerk OK), wireless	Exh. A, Add. 1 A12	HDMI 1-3 on NV32-001, ClickShare	PC-1, GUEST-1, C10-001	MATCH	-
13	Base dais confidence-monitor recommendation	Exh. A Dais	Screen on side wall + TSC preview	-	NOTE	RFI-05
14	Alternate: 10 small dais monitors	Exh. A Dais	Option: 10 LG 19BA300 + OREI UHDS-1016	MON, SPL-001	NOTE	RFI-19
15	YouTube + Facebook simultaneous, 1080p, City-owned accounts	Exh. A Streaming	Pearl Mini RTMPS x2	PM-001	MATCH	RFI-16
16	Separate local / network recording, redundant	Exh. A Streaming	SD card + NAS + YouTube archive	PM-001, SD-001	MATCH	RFI-15
17	Auto reconnect; streaming / recording status	Exh. A Streaming	Pearl reconnect; UCI + front panel status	PM-001, TSC-001	MATCH	-
18	Clerk primary control, one-touch Start / End, auto start / standby	Exh. A Control	TSC-001 UCI, presets per RFP modes	TSC-001	MATCH	-
19	Role-based passwords; secure remote diagnostics	Exh. A Control	Q-SYS Access Control; VPN / Reflect via Eola	NV32-001	MATCH	RFI-15
20	UPS orderly shutdown and programmed recovery	Exh. A Control	UPS-001 + Q-SYS sequence	UPS-001	NOTE	RFI-14
21	ALS turnkey, >= 7 rechargeable receivers	Exh. A Audio	FM 558 PRO D + 3 R38N = 7, 2 neckloops	FM-001	MATCH	RFI-21
22	Listed surge protection on power and signal paths	RFP 5.8.9	Point-of-use SPDs in LOT-001; UPS	LOT-001	NOTE	RFI-09
23	New properly sized rack, itemized, locking casters	Add. 1 A9, A10	Strong SR-FS-SYSTEM-DC-27U	BRK-001	MATCH	RFI-13
24	Spectrum / phone equipment stays on wall	Add. 1 A7, A9	Protected, not relocated	-	MATCH	-
25	No exterior / patio / lobby audio in base	Exh. A, Highlights	Base excludes; option O5 + amp A6	OSP-001, 002, SPA-002	NOTE	RFI-20
26	No voting / roll call in base	Add. 1 A16	Not included	-	MATCH	-
27	Lighting not in scope	Add. 1 A1	Cameras tuned for existing lighting	-	MATCH	-

Summary: 27 rows - MATCH 19, ADDED 1, NOTE 7.

COMMISSIONING AND HANDOVER CHECKLIST

Room: Council Chambers Technician: _____ Date: _____

#	Section	Check	Pass	Fail	N/A	Init.
1	Physical	Rack built, labeled, dressed; ground and SPDs installed; UPS load < 80%				
2	Power	Start Meeting / End Meeting sequence; standby; recovery after UPS power loss test				
3	Network	All devices online in Core Manager; VLAN, IGMP querier, QoS; no Q-LAN / Dante errors over 1 h				
4	Mics	Each of 12 goosenecks + 4 wireless: level, phantom, mute, status on TSC / C1 / AT8699R				
5	Mute	Mayor C1 MUTE ALL incl. podium; Clerk podium mute				
6	Audio	Gain before feedback at each seat and podium; Zone D mix-minus; level variation across seats; STIPA recorded				
7	Video	Each source to projector at 1080p and 4K; HDCP; ClickShare from Windows, macOS, iOS, Android				
8	Cameras	Presets for each seat, podium, audience; automatic switching on active mic				
9	Stream	Simultaneous YouTube + Facebook 1080p test; pull internet - auto reconnect; status shown				
10	Record	SD and NAS recordings start / stop, file names, export; redundancy confirmed				
11	ALS	All 7 receivers at every seat area; neckloops; sign installed				
12	Security	Non-default passwords, roles, remote access tested and revocable; backups taken				
13	Docs	As-builts (AutoCAD + PDF), rack elevations, cable schedule, IP list, files, credentials handed over				
14	Training	Operator, administrator, mock meeting completed; System Acceptance Certificate signed				

City sign-off (System Acceptance Certificate): _____ Date: _____

Final payment after 30-day acceptance period without a material defect (RFP 5.8.5).

THIRD COAST TECH

Proj # : TCT-2441

Third Coast Tech, LLC
3485 Steel Rail Drive, Ste 101
Bunnell, FL 32110
1-800-828-9517

WIP - 11/04/2026

WORK IN PROGRESS - NOT FOR CONSTRUCTION

PROPOSAL DESIGN - PENDING SITE SURVEY AND RFI RESPONSES. NOT FOR CONSTRUCTION.

Client:
City of Belle Isle, FL

Project:
Council Chambers AV Modernization

Room:
Council Chambers + equipment room

Site:
Belle Isle City Hall, 1600 Nela Avenue, Belle Isle, FL 32809

Basis of design:
RFP 2026-06 (10/01/2026), Highlights, Addenda 1 and 2 (10/27/2026), TCT quote TCT-2441 rev 0 and pick list (11/04/2026). No City drawings exist; room per Addendum 1 A2 (RFI-01).

Drawn	**TCT Engineering**
Date	**11/04/2026**
Scale	**As noted**
Sheet size	**ARCH D 24x36**

AV-302 Conformance

RFP / addenda conformance matrix and commissioning checklist (ANSI/AVIXA 10).

AV-302 11/13