



Pylon Feeder Elevation

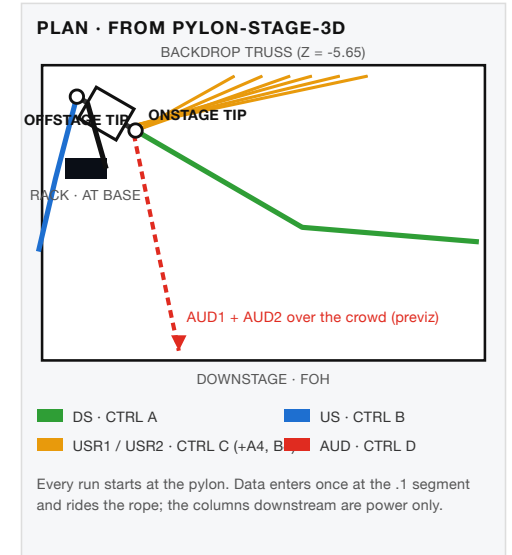
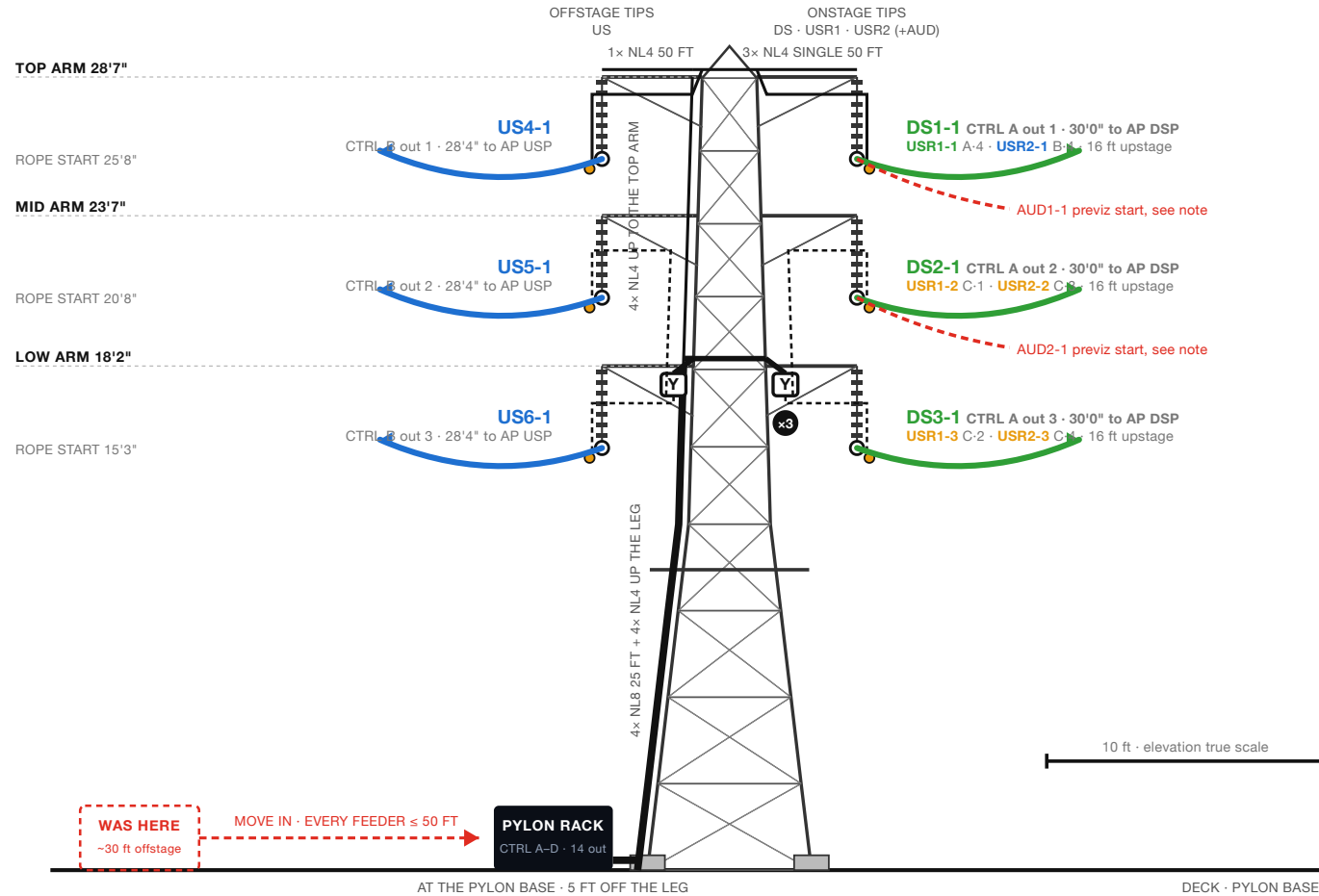
BEABADOOBEE 2026 · NL8 → NL4 WYES TO EVERY .1 SEGMENT · KG3-26-BEA

5× NL8 + 4× NL4 = 14 circuits

rack AT THE PYLON BASE · every feeder ≤ 50 ft of copper

wye at the body · 10 ft ext on every tail · true scale · geometry from pylon-stage-3d + Sheet 4.3

FRONT ELEVATION FROM FOH · RACK MOVED TO THE PYLON BASE, 4 WYES AT THE LOW ARM, 4 NL4 SINGLES TO THE TOP ARM · PLAN INSET FROM THE 3D FILE



CTRL A, CTRL B, CTRL C, CTRL D, NL8 (2 circuits), NL4 single 50 ft, Wye tail + 10 ft extension, dressed, NL8 → 2x NL4 wye, NL4MMX barrel, Rope start (string bottom)

How to read it. Every NL8 climbs the offstage leg to the LOW arm and the wye hangs at the body there. Each tail gets a 10 ft NL4 extension so the cable dresses along the steel: OUTPUT 2 (2 + 10 ft) runs under the LOW arm to the tip and down the string to the run 3 lead at 15'3"; OUTPUT 1 (8 + 10 ft) runs up the body to the MID arm, out under the arm and down the string to the run 2 lead at 20'8". Run 1 at 25'8" never touches a wye: its own NL4 single goes up the body to the TOP arm. The onstage side carries three groups at once (DS, USR1, USR2), so three wyes hang on that side of the body; the offstage side carries US alone. Each NL8 = two circuits from ONE controller (A: DS2+DS3, B: US5+US6, C: USR1-2+USR1-3, C: USR2-2+USR2-3, D: AUD1+AUD2).

50 ft feeder rule (Sep 22): 75 ft from the controller gave data issues, so the rack moves to the pylon base. With the rack 5 ft off the offstage leg the NL8 only has to reach 23'2" to the wye, so the pylon NL8s become **25 ft pieces** (8 in stock), not 50 + 10. Copper from the rack to each rope start: **run 3 = 37 ft** (25 NL8 + 2 tail + 10 ext) · **run 2 = 43 ft** (25 + 8 + 10) · **run 1 = 50 ft** (one 50 ft NL4 feeder, dressed need ~40'2", ~10 ft coiled at the rack). The offstage-rack plan would have put 78 ft on run 2 and 70 ft on run 1. **Audience is the problem:** if AUD lands at the AP1 pickup on the DS truss, its NL8 is 50 + 25 = 75 ft, the length that failed. Either the audience pair starts at the pylon (previz, then a 25 ft NL8 works) or CTRL D moves out to the DS truss beside AP1 on its own TRUE1 + etherCON.

10 ft extensions still fit under 50 ft. Wye at the body: OUT 2 dressed path ~6'3" against 12 ft of cable; OUT 1 dressed path ~11'10" against 18 ft. About 6 ft to coil at the body on each tail. **Count: 5 wyes × 2 tails = 10 extensions** (the audience OUTPUT 1 jumper already planned is one of them). 16 on hand, no build. Male to female, so they mate straight onto the female tails and the barrel count stays at 14.

Audience start, confirm before build. The 3D previz hangs AUD1/AUD2 from the onstage TOP + MID tips (dashed red above). The feeder map (Sep 9) lands the audience NL8 at the AP1 pickup on the DS truss with AUD1 9'1" above AUD2, which is what page 2 draws. Same wye, same tails, different landing point.



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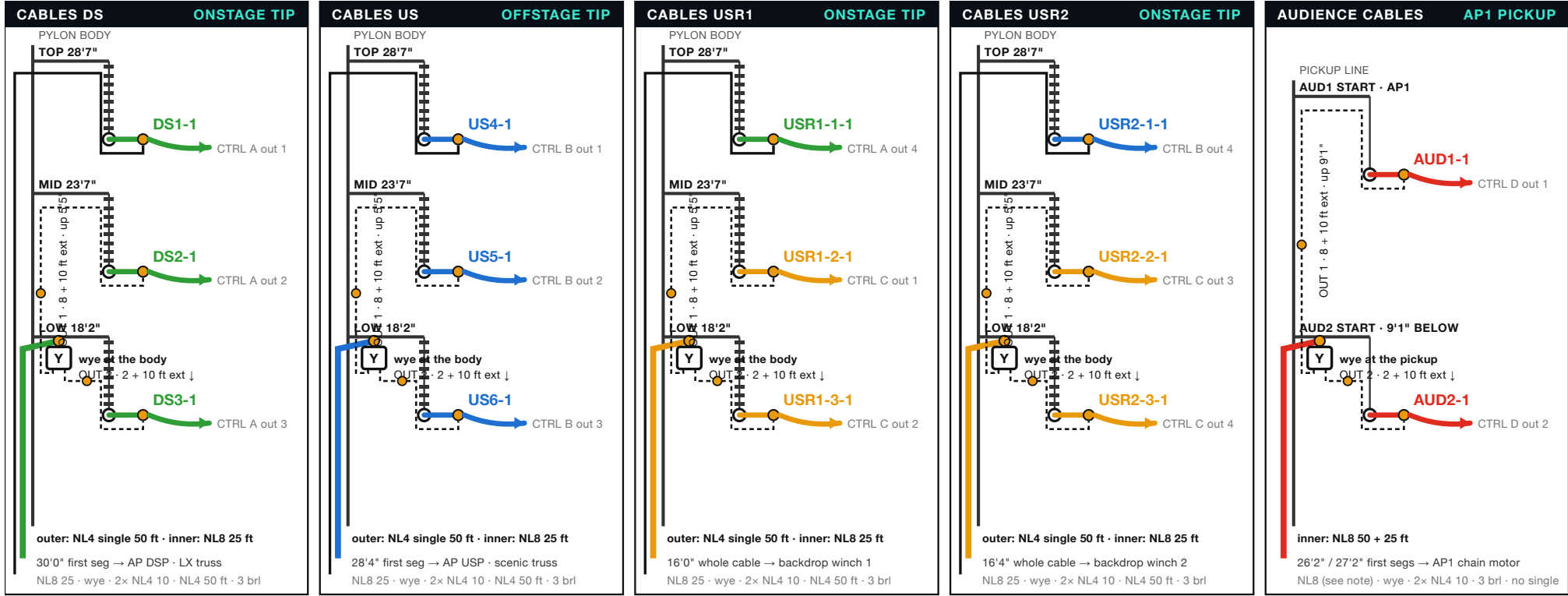
BEABADOOBEE 2026 · ONE CARD PER WYE · KG3-26-BEA

5 wyes · 10 NL4 10 ft extensions · 14 rope starts

rack at the base · run 3 = 37 ft · run 2 = 43 ft · run 1 = 50 ft of copper

heights from Sheet 4.3 · strings 2'11" from the 3D file

EACH NL8 → NL4 WYE AND THE THREE .1 SEGMENTS IT REACHES · STRING BOTTOMS AT 25'8" / 20'8" / 15'3"



— NL8 Pixel Data + Power Cable, 16/6 (2 circuits, ONE controller)

□ NL8 → 2× NL4 wye (SPI splitter)

— NL4 single, one 50 ft feeder to the TOP arm (run 1)

● NL4MMX barrel (feeder F to rope lead F), or tail-to-extension joint

- - - - wye tail + NL4 10 ft extension, dressed along the arm and body

○ rope start: string bottom, rigging ring, 12" female lead

PIECE	WHERE	QTY ON THE MAP	LENGTH	NOTE
NL8 Pixel Data + Power Cable, 16/6	rack at the base → LOW arm (DS, US, USR1, USR2); audience see page 1 note	5	4× 25 ft · audience TBD	need 23'2" to the wye; 8× 25 ft in stock. The 50 + 10 and 50 + 25 builds are off the plan under the 50 ft rule
NL8 → 2× NL4 wye (SPI splitter, 18/3 SOOW tails)	hangs at the body where the NL8 lands	5	OUTPUT 1 = 8 ft · OUTPUT 2 = 2 ft	black OUTPUT labels; ckt 1 stays on run 2 as patched; prototype first (NeonOS 99cf5e04)
NL4 10 ft extension (male to female)	one on every wye tail so the cable dresses along the arm and body	10	10 ft	5 wyes × 2 tails; the audience OUTPUT 1 jumper is one of the 10. 16 on hand, 6 spare, no build
NL4 single	rack at the base → TOP arm tip, run 1 of each pylon group	4	one 50 ft NL4 feeder (dressed need ~40'2")	50 ft NL4 feeders on hand; no joins in the run
NL4MMX barrel	every rope start (feeder female to 12" rope lead female)	14		+ up to 8 joins if the singles are 25 ft pieces
NL8 barrel	NL8 to the wye input	5		per the Aug 31 decision of record (bea.kg3.io/power)

Connector convention (KG3-BEA-DROP-01 R4): male toward the source, female toward the load. Feeders stay female to female, so every rope lead meets its feeder through an NL4MMX barrel. Pin map on every end: 1+ = V+, 2- = GND, 1- = SPI data, 2+ unused. Data enters the rope once, here at the .1 segment, and rides the rope through every tee; the injection columns downstream are power only (KG3-BEA-INJ-01).