



FIELD TRAINING

How to read a coax hardline print

A night-by-night tutorial: what you were given, where it is, and what to do there.

WHAT YOU GOT

The work that came in tonight and what you need to pull from it.

WHERE IT IS

How to find that work on the map — street, then house number.

WHAT TO DO

How to read the notes at that spot and stay in your scope.



What we are going over

AGENDA

INTERNAL TRAINING

01

Understand the work you receive each night

What shows up on your assignment, what you need to take from it, and what you don't need yet.

02

Learn the legend and the labels first

Letters, symbols, and numbers on the print — poles, taps, actives, and tags — before you hunt streets.

03

Open the right map and find the job site

Match tonight's work to the correct print, then street, then house number, then the device.

04

Read the notes at that location

How to use notes and callouts to see what that pole needs — and when to leave it alone.

05

Do only the work that was assigned

Jobs change every night and every market. Tonight's list and the notes decide, not last night's habit.

06

Practice the steps on sample maps

We'll walk example prints so you can run the process. The samples are practice, not "the" job.

Before you look for a street, know what the letters on the print mean. A letter on a device is the work at that spot.

A**Swap the active**

Replace the amp or node that is already there.

E**New tap**

Install a new tap. The number in the circle is the tap value.

G**New splitter**

Install a new splitter on that branch.

H**Add an active**

Put in an amp that was not there before.

J**EQ comes out**

Remove the equalizer. The print may show a jumper left in.

More than one letter at one spot

If the box says A, E — swap the active and put a new tap there. If it says J and add splice — do both. Read the whole string. Then check your assignment: if that device is not yours, you still don't work it.

These are the hardware marks you'll see on the line. Same idea every market — the drawing style can vary a little, the meaning does not.



Pole

Circle with an X. Strand plant hangs here. This is a location, not a tap.



Tap

Circle with a number. That number is the tap value (dB), not the house and not the pole ID.



Active / amp

Triangle on the line. Powered device. Black corners = input / bridger style — not a splitter. Next slide shows the variants.



Node

Heavier box, often with triangles. Fiber-to-coax point for that area. Not every night is a node swap.



Splitter

Junction on the line where one hardline becomes two. Work letter G if it's new.



Splice

Box or mark with S (sometimes S 14). Hardline is joined here. Notes may say add / resplice.



Power

Supply or inserter. You may see 90V, amps, or a bolt. Only your job if it was assigned.



Ped / cabinet

Square or box on the ground path. Buried plant, not a pole. Same idea: find the address first.

LEGEND

**Triangle + black corners**

AMPLIFIER (active). The filled corners mark the output legs. Bridger / mini-bridger style. Not a splitter.

**Open / regular triangle**

AMPLIFIER too — usually a line extender (one output). Same family as the black-corner triangle.

**Filled / solid circle**

TERMINATOR. Caps a dead-end or unused port. Notes may say ADD TERM.

**Empty circle**

Often just a pole or a simple junction. Don't treat it as a tap unless it has a value in it.

**Circle with + or x**

POLE. Strand plant hangs here. The address is still the gray number in the lot.

**Half-filled circle + x**

POWER at that device — power passing or a power inserter. Only your job if it was assigned.

**Circle with a small number**

If it's 4, 8, 11, 14, 17, 20, 23, 26 — that's TAP VALUE. A 1–4 next to a house is how many drops, not the tap.

**Splitter (for comparison)**

A splitter is a junction that splits the hardline. Work letter G. It is passive with no gain different from a dual output

The linework tells you how plant is built. The marks next to it tell you where you are and what work is called.



Hardline

Thick solid line along the street. This is the coax you splice — not the drop to the house.



Drop / service

Thinner line or tick toward a lot. That's the house feed, not the mainline.

142'

Footage

Number with a foot mark (142'). Distance to the next device. Not the address.

176

House number

Gray number sitting in the lot. Street + this number is where you park.

A6

Device ID

Small tag like A6 or E12. Match it to tonight's assignment. This is the name, not the work.

E

Work letter

Letter box on a device (A, E, G...). That's the work at that spot — if it's on your list.

NOTE



Note / callout

Text with an arrow. Read it before you open anything. It can say stop, splice, or leave it.



Node boundary

Heavy colored line. Work stops here unless that node is on tonight's assignment.



Start here: the labels on the map

LEGEND

Four kinds of numbers sit next to each other. Learn this before you hunt a job site. Only one of them is the address.

176

GRAY NUMBER IN THE LOT

HOUSE / ADDRESS

This is where you park. Street + this number is the job site.

176'

NUMBER WITH A FOOT MARK

FOOTAGE

How far along the line to the next device. Not the house.

17

NUMBER INSIDE A CIRCLE

TAP VALUE

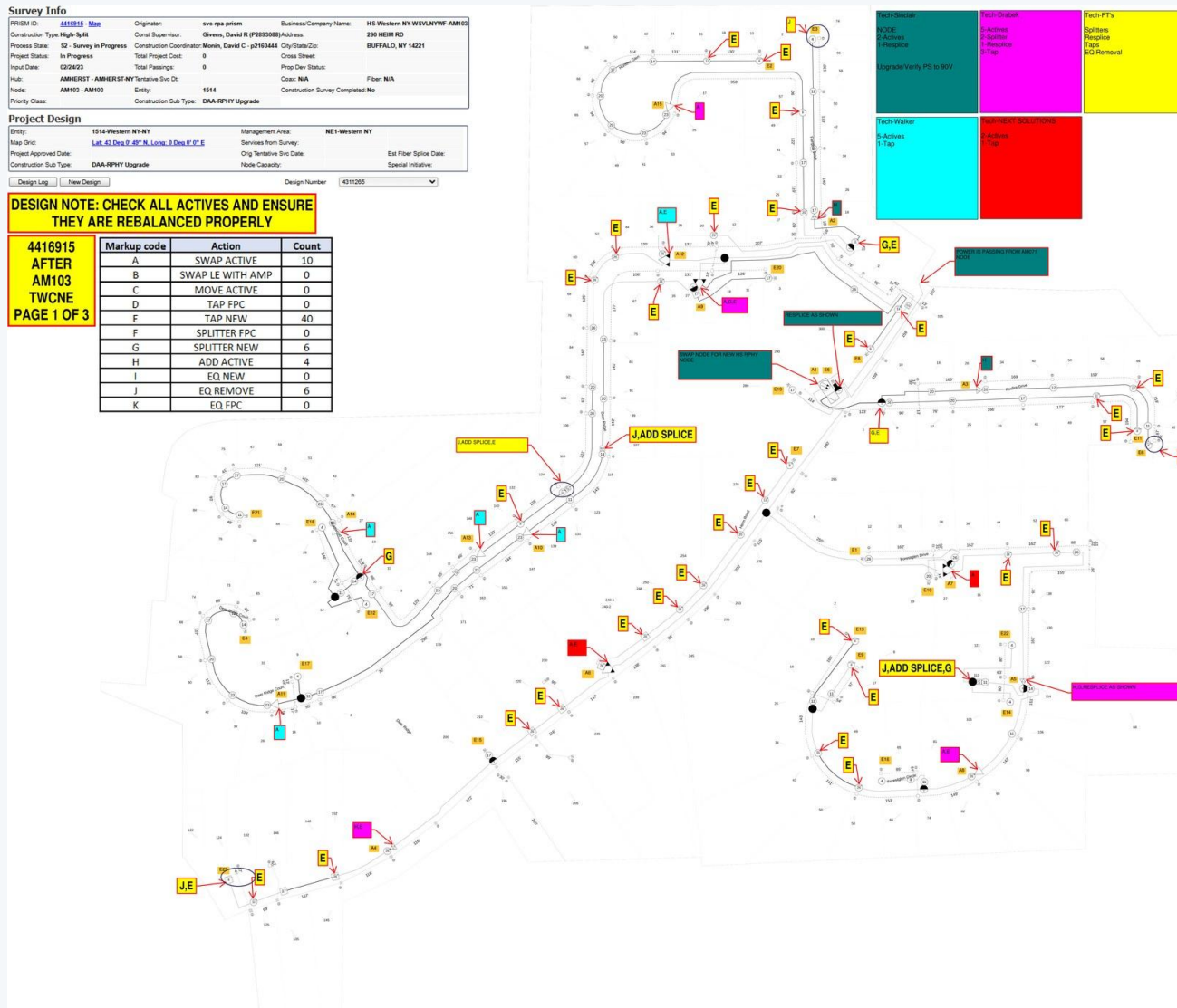
The tap at that spot, if that tap is yours. Not the address.

A6

SMALL TAG BY A DEVICE

DEVICE ID

The name of that amp or tap. Match it to tonight's assignment.

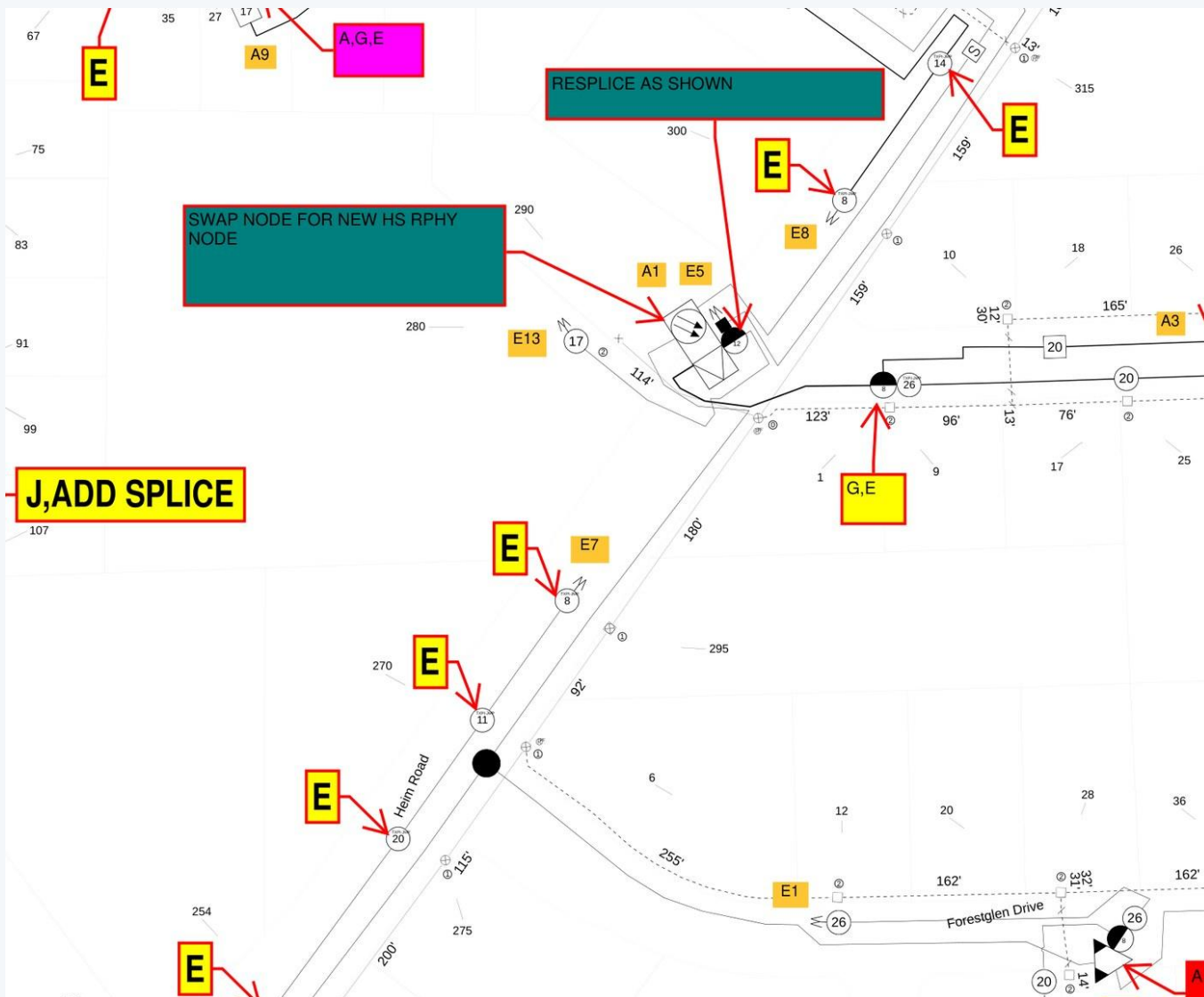


Use this slide for overlays

Point arrows at:

- Pole (circle + X)
- Street name
- House / lot number
- Tap (circle + value)
- Amp / node
- Splice / splitter
- Work letter + note

This is a sample print. Tomorrow's map will be a different node and a different town.



Label this close-up

Good overlay order:

1. Street
2. House number
3. The device on that lot
4. The work letter
5. The note pointing at it

If you can mark those five things on any print, you can find the job.



You do not need the whole print yet. You need tonight's list. That list changes. The way you read it does not.

What to take from the assignment

Node or area name, the device IDs that are yours, and the count (how many actives, taps, splices). Write them down before you open the map.

What you can ignore for now

Other people's names, other crews' counts, and any extra columns that don't help you find a street. Come back to those only if a lead adds scope.

What will be different tomorrow

The node, the town, the hardware, even the filename. Don't memorize one sample job. Memorize: list → right map → address → notes.

How you know you're ready to open the map

You can say out loud: "I have these device IDs on this node." If you can't, you're not ready to hunt streets.



Survey Info

PRISM ID:	4416915 - Map	Originator:	svc-rpa-prism	Business/Company Name:	HS-Western NY-WSVLNYV
Construction Type:	High-Split	Const Supervisor:	Givens, David R (P2893088)	Address:	290 HEIM RD
Process State:	S2 - Survey in Progress	Construction Coordinator:	Monin, David C - p2160444	City/State/Zip:	BUFFALO, NY 14221
Project Status:	In Progress	Total Project Cost:	0	Cross Street:	
Input Date:	02/24/23	Total Passings:	0	Prop Dev Status:	
Hub:	AMHERST - AMHERST-NY	Tentative Svc Dt:		Coax:	N/A
Node:	AM103 - AM103	Entity:	1514	Fiber:	N/A
Priority Class:		Construction Sub Type:	DAA-RPHY Upgrade	Construction Survey Completed:	No

Project Design

Entity:	1514-Western NY-NY	Management Area:	NE1-Western NY	
Map Grid:	Lat: 43 Deg 0' 49" N, Long: 0 Deg 0' 0" E	Services from Survey:		
Project Approved Date:		Orig Tentative Svc Date:		Est Fiber Splice Dat
Construction Sub Type:	DAA-RPHY Upgrade	Node Capacity:		Special Initiative:

Design Log

New Design

Design Number

4311265

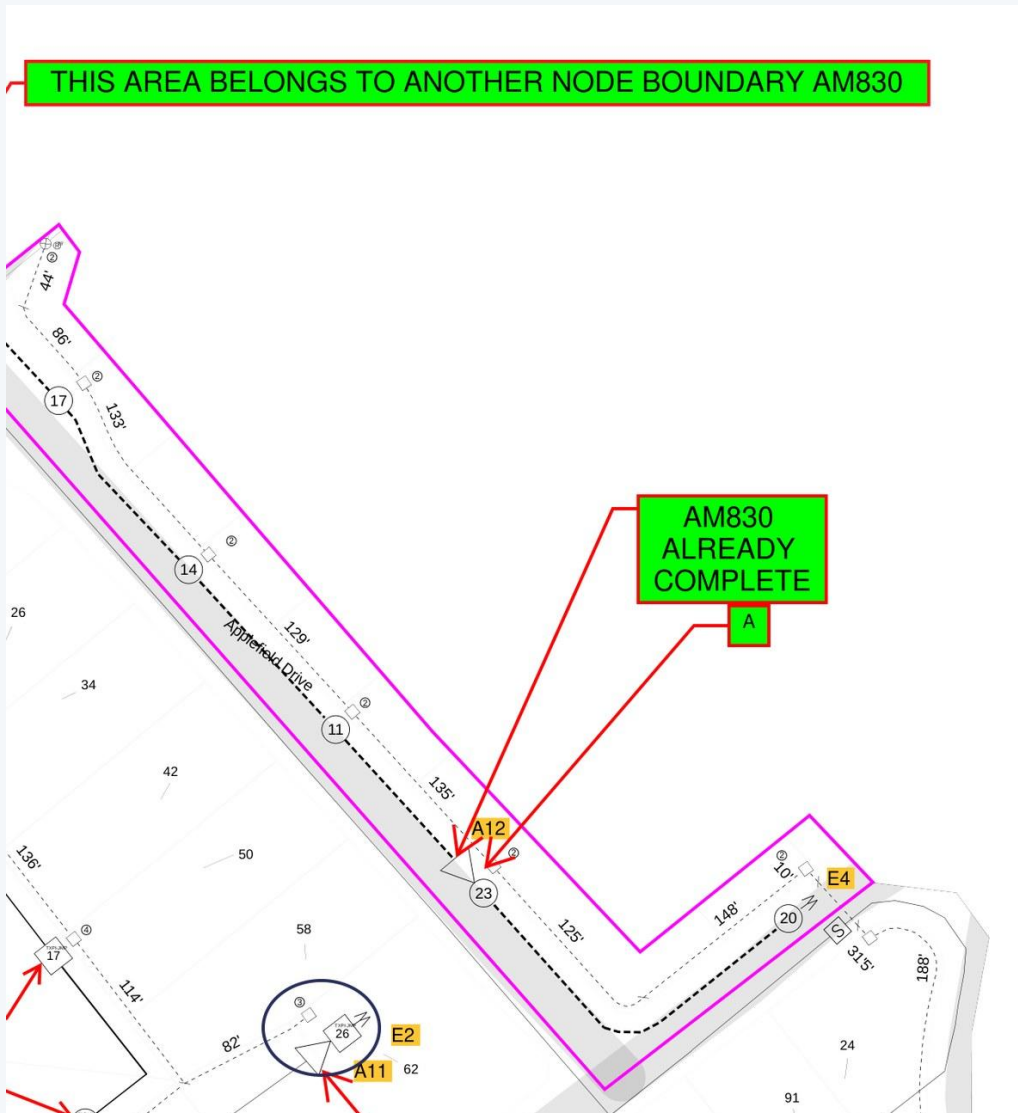


DESIGN NOTE: CHECK ALL ACTIVES AND ENSURE THEY ARE REBALANCED PROPERLY

Check these before you hunt

1. The node / area on the print matches tonight's assignment.
2. You're in the right town / hub — street names should look familiar for where you were sent.
3. Find the box with your company or name. That box is your count for this print.
4. If the node doesn't match the sheet, you have the wrong file. Close it.

Filenames vary by market. Don't rely on the name alone — confirm the node on the print.

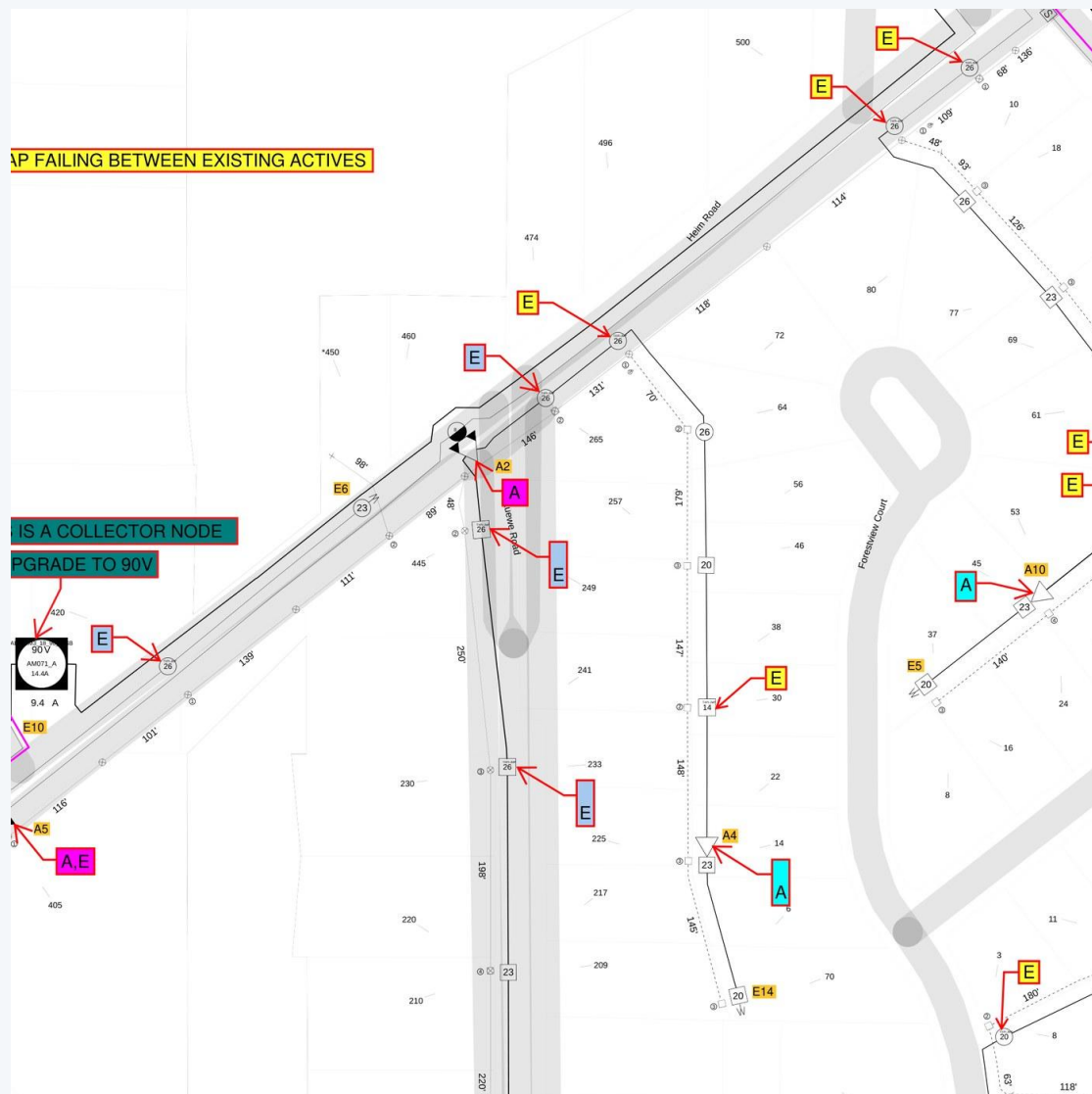


The order

1. Street name — that's how you stage the truck.
2. Gray number in the lot — that's the address. Park here.
3. Device on that lot — amp, tap, splitter.
4. Device tag — does it match an ID on tonight's list?

If the street is wrong, stop. Don't "fix it" by working the next block over.

Add arrows on this map for street and house numbers.



Practice overlay

Pick one assigned device on this sample and mark:

- The street
- The house number
- The device
- Whether it's on tonight's list

If you can't find the house number, you're not ready to climb.

DESIGN NOTE: CHECK ALL ACTIVES AND ENSURE THEY ARE REBALANCED PROPERLY**4416915
AFTER
AM103
TWCNE
PAGE 1 OF 3**

Markup code	Action	Count
A	SWAP ACTIVE	10
B	SWAP LE WITH AMP	0
C	MOVE ACTIVE	0
D	TAP FPC	0
E	TAP NEW	40

The screenshot displays a software interface with several sections:

- Survey Info:**
 - PRISM ID: 6421318 - Main
 - Construction Type: High Split
 - Process State: S2 - Survey in Progress
 - Project Status: In Progress
 - Input Date: 02/25/23
 - Hub: AMHERST - AMHERST, NY
 - Node: AM071 - AM071
 - Priority Class: C
- Project Design:**
 - Entity: 1514-Western NY
 - Map Grid: Lat: 43.090 1.7
 - Project Approved Date:
 - Construction Sub Type: DAA, RPHY Upgr
- Design Log / New Design:** Buttons for "Design Log" and "New Design".
- Markup Code Table:**

Markup Code	Action
A	SWAP
B	SWAP
C	MO
D	T
E	T
F	SPL
G	cont
- Technical Notes (Left Column):**
 - Tech-Poe
 - NODE
 - 2-Actives
 - 1-Tap
 - Remove Collector Node
 - Upgrade/Verify PS to 90V
- Technical Notes (Right Column):**
 - Tech-Bond
 - 5-Actives
 - 1-Add Term
 - 1-Tap
 - 1-EQ Removal
- Technical Notes (Bottom Left):**
 - Tech-NEXT SOLUTIONS
 - 3-Actives
 - 2-Tap
- Technical Notes (Bottom Right):**
 - Tech-Rahman
 - 10-Taps
 - 1-Splitter

What notes are for

A note on the print beats a guess.

Common ones you'll see:

- Work at this pole (splice, term, swap)
- This area is another node — leave it
- Already complete — don't reopen it
- Power / plant-wide instruction

Read the print-wide note first, then the arrows at your devices.

If a note and your assignment disagree, stop and ask.
Don't invent scope.



Tonight's job

1. You're on the right street and house number.
2. The device tag matches an ID on your list.
3. You read the notes pointing at that device.
4. You do the work listed for you at that spot.
5. On AOI high-split actives, let it auto-balance unless that job or a lead says otherwise.
6. Close it out. Don't add extra plant because you were already there.

Not automatically yours

Node swaps, power upgrades, a street full of taps, splices, EQ removals — only if they're on your list or a lead adds them.

Last night may have been a mini-bridger. Tonight may be taps, a splice, or a different market's hardware.

The method stays the same. The work does not.



1

Read tonight's assignment

Write the node and the device IDs that are yours.

2

Open the matching print

Confirm the node on the print matches the sheet.

3

Use the legend

Know the letters and which number is the address.

4

Find the job site

Street, then house number, then the device on that lot.

5

Read the notes

Print-wide note, then the callouts at your devices.

6

Do assigned work

Only what's on your list. Auto-balance when that's the job.



Practice: find assigned work on this sample

PRACTICE

INTERNAL TRAINING



	A	B	C	D	E	F	G	H	I	J	K	L
1	Vendor Company	MA (Required)	PID (if they a	First Na	Midd	Last Name (Re	Preferred	Preferred Last Name	Work Phone, r	Mobile Phon	Personal Email (Required)	Node and Amp #
2	FBR Solutions	Buffalo-Area	1234567	YOUR		NAME		YOUR NAME	12304598228		YOUREMAIL HERE	AM103-1

Review the Network Evolution Excel Sheet

This sheet will contain a list of all the assigned techs for that nights work and what work they were issued.

1. Format : NODE-AMPID (SOME MAY CONTAIN AN UNDERSCORE)
2. You will take this ID and go to the map (AFTER PRINT) to find the Tag #
3. Use the Tag # to find the location on the map and find the closest address.
4. Enter the address in your work phone maps and head there!





Starting in the middle of the map

Open the assignment first. If you don't know tonight's IDs, the streets won't help you.

Wrong print

The file on the tablet isn't automatically tonight's node. Confirm the node on the print matches the sheet.

Treating a tap value as an address

The circle is not the house. The gray number in the lot is where you park.

Working another crew's devices

A print can be covered in work letters. Yours are the ones on your list.

Ignoring a leave-it note

Another node, already complete, or past a boundary — don't reopen it.

Assuming last night's setup

Not every job is the same amp or the same market. Read this job. Auto-balance when that's what you were given.



1 Assignment

2 Right map

3 Legend

4 Address

5 Notes

6 Work

Circle with an X

Pole — strand location

Circle with a number

Tap value — not the house

Triangle / heavy box

Active or node

S 14 / junction

Splice or splitter

Gray number in the lot

Address — park here

Letter box + note

Work at that spot, if it's yours

DO

- Take tonight's IDs off the assignment first.
- Confirm the node on the print.
- Park on the house number.
- Read notes at that pole.
- Do only what's on your list.

DON'T

- Start in the middle of the streets.
- Treat a circle as an address.
- Work another crew's letters.
- Assume last night's hardware or setup.
- Guess when the sheet and print don't match.



Check that you can do this

PRACTICE

1. You just got tonight's assignment. What do you write down before you open a map?
2. You're on a lot labeled 23. Next to it is a circle with 23. Where do you park, and what is the circle?
3. Your list is two actives. The print is covered in work letters. Which devices do you work?
4. A note says this area belongs to another node, or is already complete. What do you do?
5. Last night was a mini-bridger. Tonight's list is taps in a different market. What stays the same?
6. The print on the tablet doesn't match the node on your sheet. What's the next step?

Answers on the next slide. If two or more are shaky, run a sample print with a supervisor before you take a truck.

1 The node / area and the device IDs that are yours — plus the count. That's the target list.

2 Park at house 23. The circle is the tap value, not the address.

3 Only the devices on your list. The rest of the letters belong to other crews or other nights.

4 Leave it. Don't reopen finished plant and don't work another node.

5 The method: assignment → right map → legend → address → notes → assigned work. The hardware can change.

6 Wrong file. Close it and open the print that matches tonight's node. Don't start from the streets.



YOU'RE READY WHEN YOU CAN DO THIS ON ANY PRINT

Know tonight's work. Find the address. Do that job.

Write the IDs, open the matching map, use the legend, park on the house number, read the notes, and stay in your scope. Tomorrow will be a different night.

Tonight's IDs are written down

The print matches that node

Parked on the house number

Notes read — only assigned work done