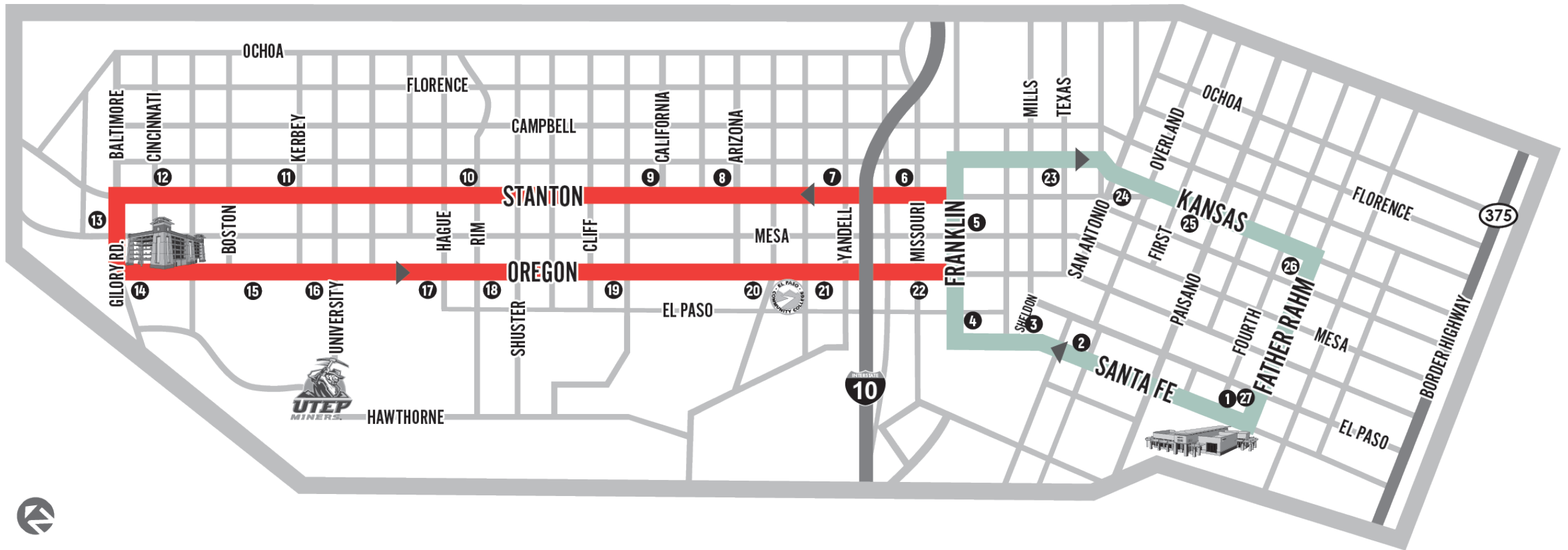


C I T Y O F E L P A S O

EL PASO STREETCAR



ROUTE MAP





WHAT WE STARTED WITH:
THE HULKS

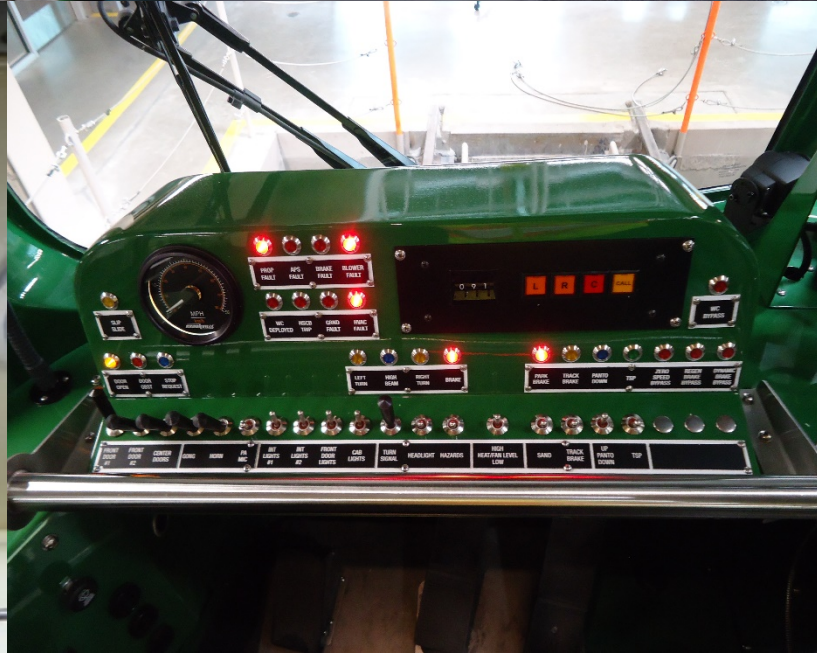






WHAT WE ENDED WITH:
THE BEAUTIES









MAKING THE STREETCAR BARN SAFE AND SOUND



PCC CAR TIMELINES

- 1st PCC streetcar arrived late March and after extensive testing, it was certified for hand-off to El Paso Streetcar in late Apr 2018
 - The first PCC car had to pass 200 miles of perfect continuous operations in El Paso to be accepted
- PCC cars 2-6 arrived, one-by-one, between Apr and Dec of 2018
 - Must pass 50 miles of perfect continuous operation to be accepted
- New streetcar staff had to become acclimated to the type of safety protocols required to support streetcar/LRV maintenance practices
- Maintenance facility should always be considered the prime focus point of the system's operation



A safe zone to allow a tow vehicle driver the ability to gauge how much room they have to maneuver when pushing/pulling a streetcar in or out of the MSF Bay-1.

Safety chain poles are painted a standout color to indicate that they have to be removed to allow streetcar movement in/out of service bay.



Areas where visitors and non-maintenance staff have clearly delineated pathways for safe movement without guessing where they can stand, work and move about.



Service bay had wheel blocks installed as soon as the first vehicle has arrived and it's stop position had been determined and installed. Pits have round LED lighting fixtures for better work light focusing. ETS (Emergency Traction Shutdown) boxes are labeled with reflective lettering.



Spare truck storage was mapped to occupy the space at the head of Bay-2, but the space was delineated to also allow for movement around the truck for prep and servicing as well as to avoid blocking the pit stairs.



Vehicle power jacks have specific storage areas that also offer a defined range for safe deployment allowing the streetcar placement flexibility when spotted within the service bay.

Jacks are individually numbered for easy troubleshooting, operational monitoring and maintenance reporting.



The mezzanine area, where there is exposed OCS, also has safety zones clearly delineated for safe passage of visitors and non-maintenance staff.



WHEN YOU'RE OUT IN THE YARD,
SEE EVERYTHING!



All in-service streetcars will stop just inside the gate and the operators will turn the unit over to maintenance personnel. This allows the streetcar operator to interface directly with a maintenance technician or hostler for a verbal confirmation of any operational issues experienced out on the mainline. Additionally, it reduces the chance of an accident caused by having the operator pull the unit into a service bay and overlook and anomalies such as tools lying on the rail. The maintenance areas are the domain of the maintenance staff.



There are several areas in the yard apron that have no clearance when a streetcar is present and moving through the area. No clearance signs with 3M Hi-Reflectivity coating light up brightly with even the smallest amount of light. All OCS support poles are numbered and fed into a GIS mapping system. This makes it for easy locating and OCS maintenance.



Out in the yard apron are voestalpine Nortrak CSV-34 Embedded Manual Switch Machine with the switch points coated in reflective yellow paint. This allows for easy switch point position identification in low light conditions.



Yard apron features track fouling marks that are painted with highly reflective yellow paint which is easy to see in low light conditions.



OUT ON THE MAINLINE



Signage indicating Yard Limit and posted speed.

Note OCS section line breaker and isolator.



Posted mainline speed at turnout for access to MSF yard lead.

All speed signs are hard mounted and feature 3M Hi-Reflectivity coating.





TPSS A-4 located at Sun Metro DTC (Downtown Transit Center) employee parking lot.

Note stripped bollards to aid in protection of building structure and prominent bilingual danger signs.



TPSS A-4 side access doors with additional warning signs. Note ETS Emergency Traction Power Shutdown box with reflective “ETS” decal lettering.



WHEN IT ALL COMES TOGETHER

THANK YOU

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