






Street Railway Cars: Trucks and Roofs Notes by E. Harper Charlton

STEEL SHAPES, (STOCK CROSS SECTIONS)
IN TRUCK FRAMES.

- 1  FLAT BAR. SECTION
- 2  "I" SECTION
- 3  "L" SECTION
- 4  "T" SECTION
- 5  "U" SECTION

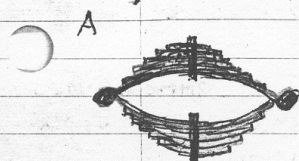
THESE ARE THE COMMON NAMES APPLIED MOSTLY. ALTHO ONE MAY RUN ACROSS VARIATIONS IN TERMINOLOGY.

- 6 (C) TUBULAR STOCK. ONE COMPANY, (AMERICAN CAR CO.) FABRICATED TRUCK FRAMES OF TUBULAR STOCK. THE INSIDE OF THE TUBE HAD SHAPED WOOD PLUGS INSERTED BY PRESSURE, TO REDUCE NOISE. THESE TRUCKS, BOTH SINGLE AND DOUBLE WERE THE DESIGNS OF WM. SUTTON PRES. OF THE COMPANY. CIRCA 1891-

LAMINATED SPRINGS (PLATE OR LEAF)

STEEL STOCK

SECTIONS



FULL ELLIPTIC



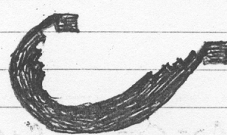
SEMI ELLIPTIC SUSPENSION PLACEMENT



SEMI ELLIPTIC CANTILEVER PLACEMENT



1/4 ELLIPTIC



USED ON ANGER TRUCK, MAY BE FOUND OTHERS.
MOSTLY BRITISH ISLES.
SEE "ANGER" TRUCK FILE.

SHRIMP SPRING. NOT COMMON.

SECTIONS

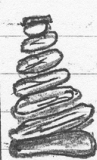
COIL SPRINGS.

HELICAL (COMMONLY CALLED "COIL SPRINGS")



PARALLEL
HELICAL

MOSTLY ROUND STOCK
THE MOST COMMON
"COIL SPRING"



TAPERED OR
CONE SPRING.

BRILL USED ON EARLY
22-E's,
MOSTLY ROUND STOCK.



VOLUTE SPRING

THIS IS COILED ON EDGE.

FOR VERY HEAVY WORK. FOUND ON
LOCOMOTIVES, BUFFERS AND IN
SPRING NEST ON FREIGHT CAR
TRUCKS. (SEE HOLLAND CO.)

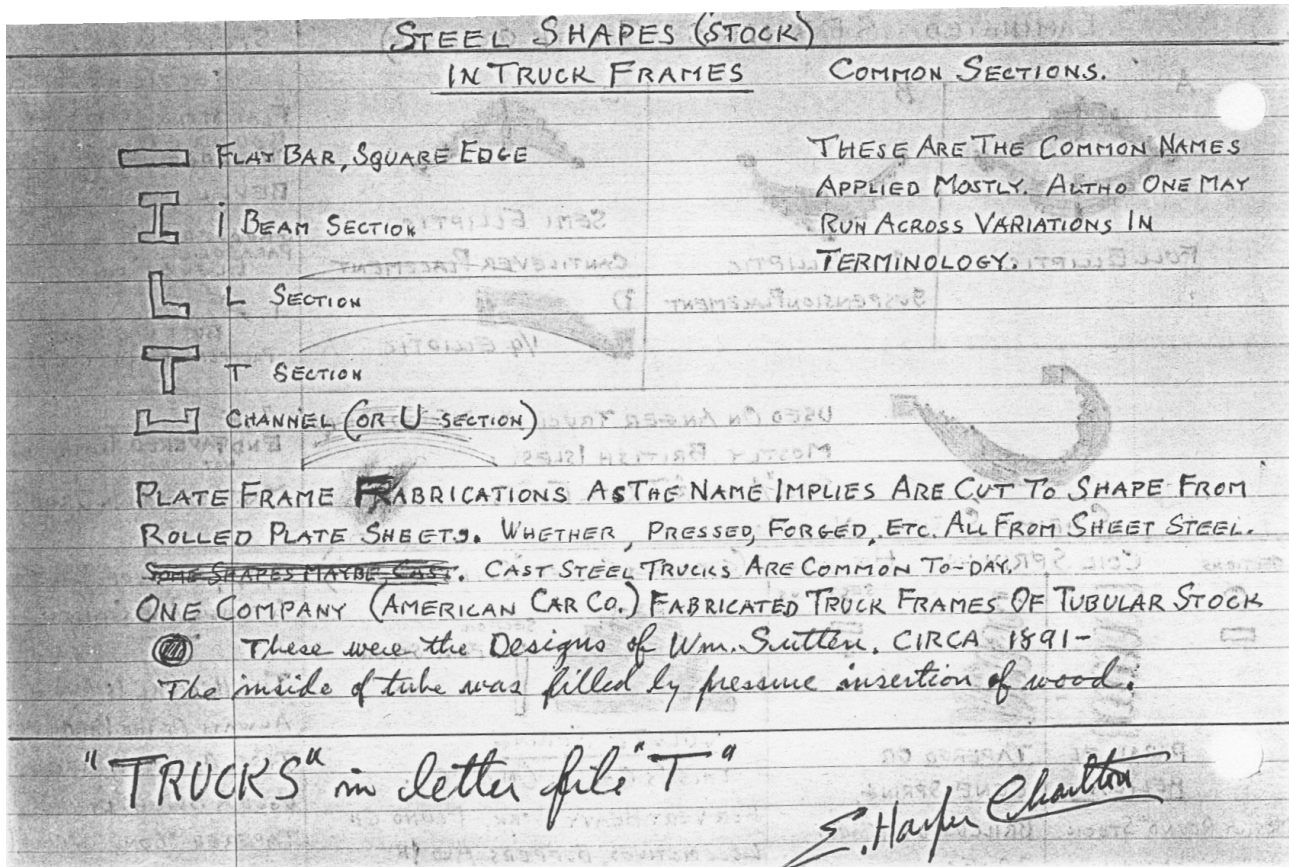


SECTION
M FLAT STOCK

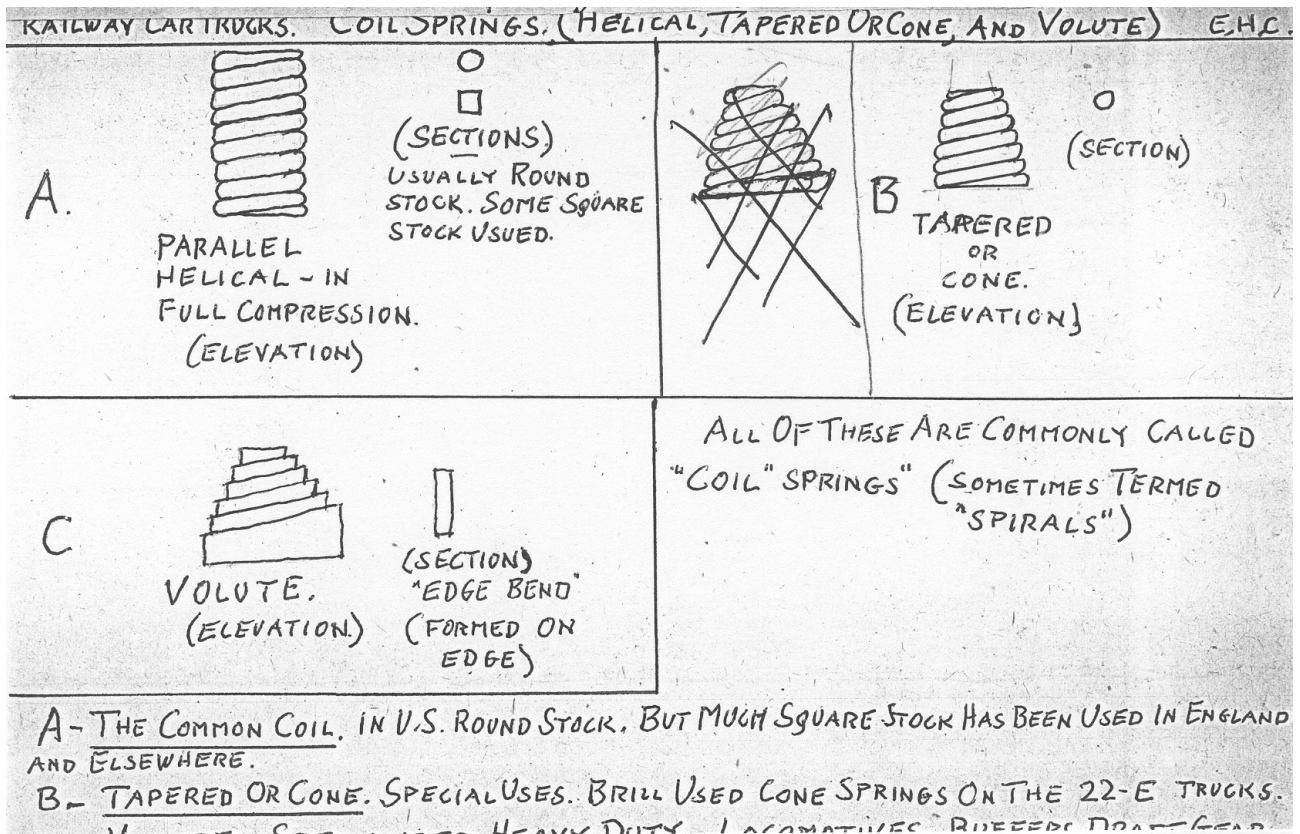
A, B, C, AND D OF PLATE
SPRINGS ARE COMMON.

THE HELICAL IS ALMOST
ALWAYS OF THE PARALLEL
TYPE. AS NOTED, BRILL
USED A SLIGHTLY
TAPERED "CONE" SPRING
ON THE EARLY 22-ES
E. Harp Chilton

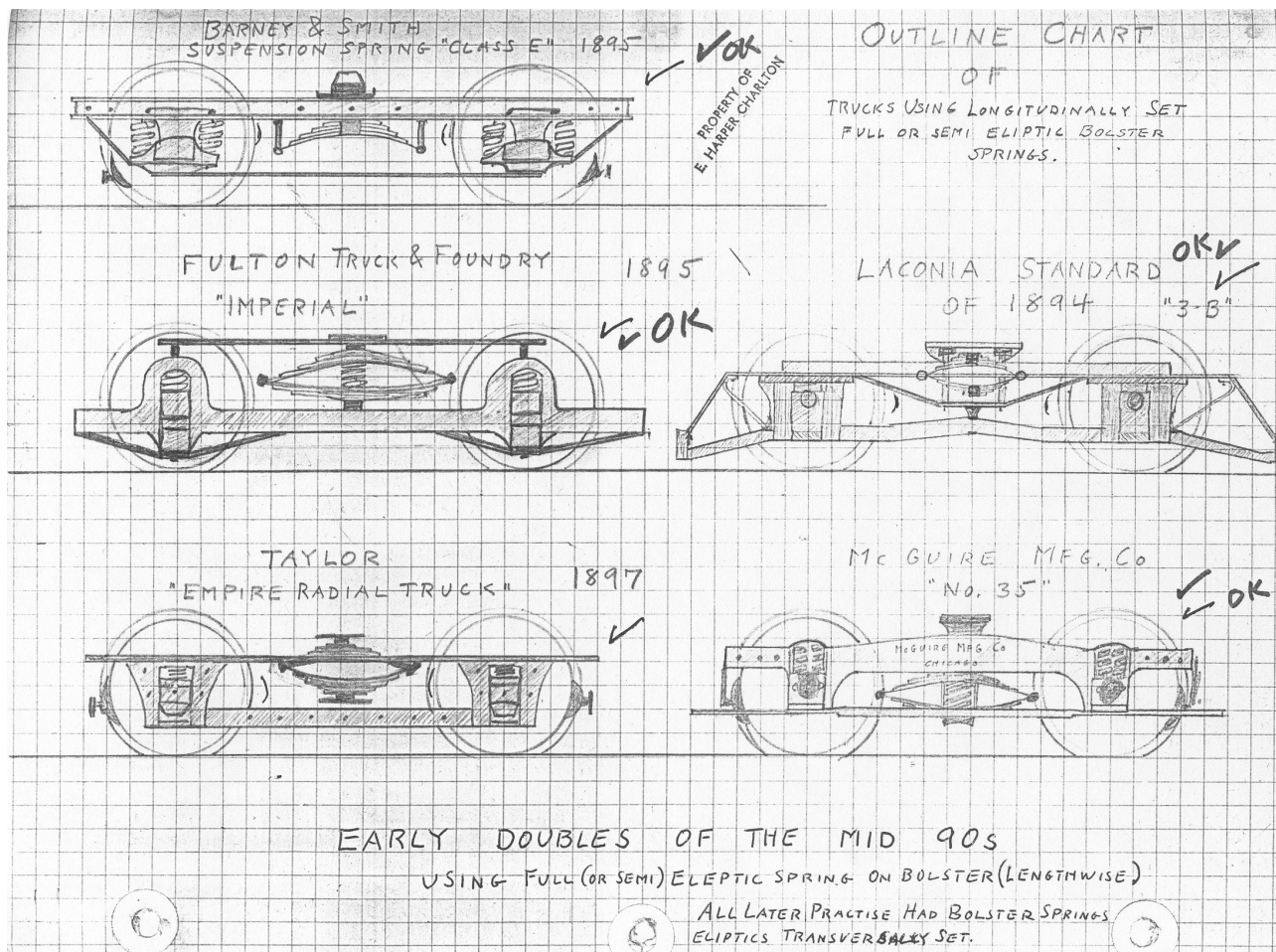
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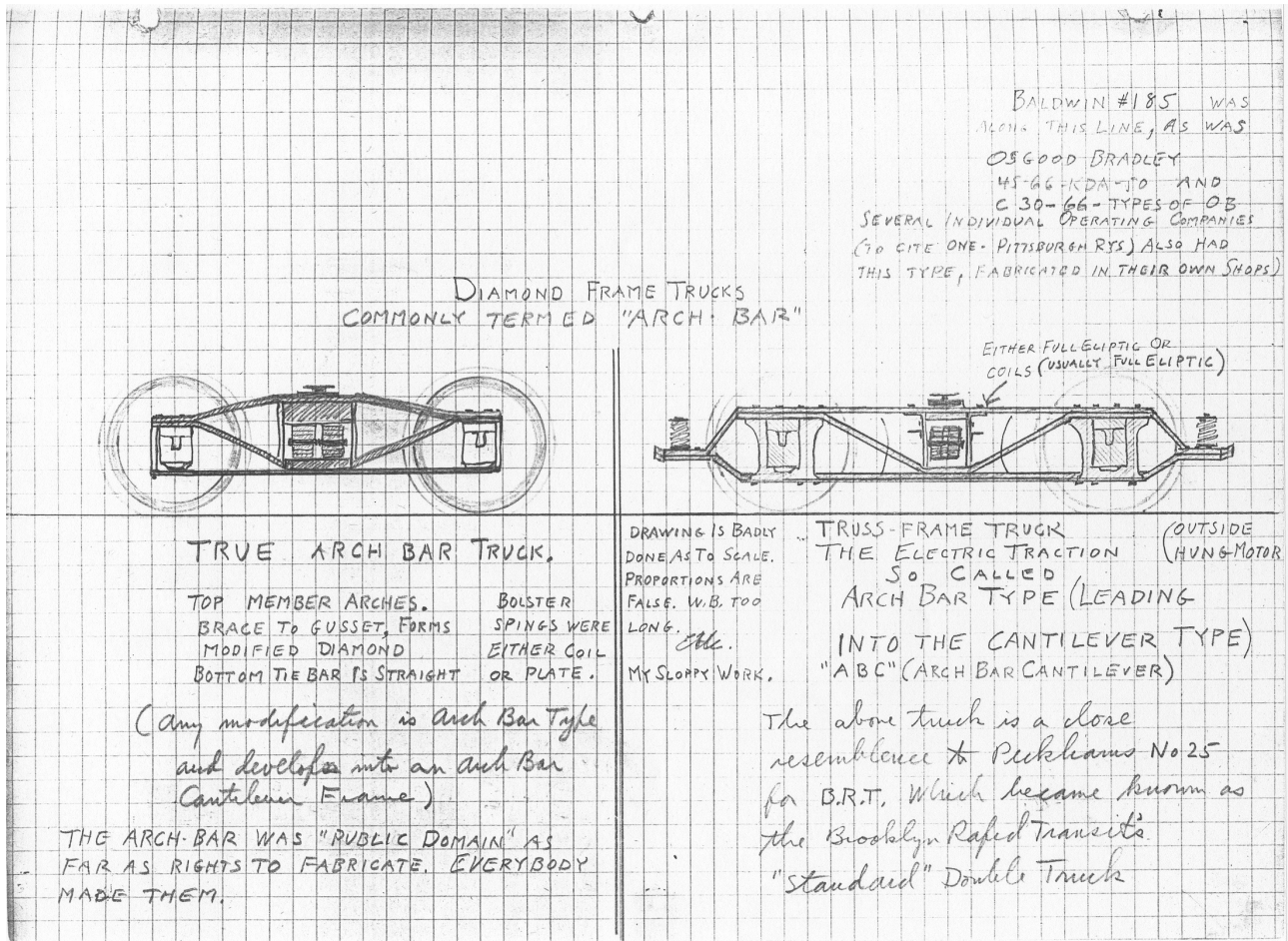
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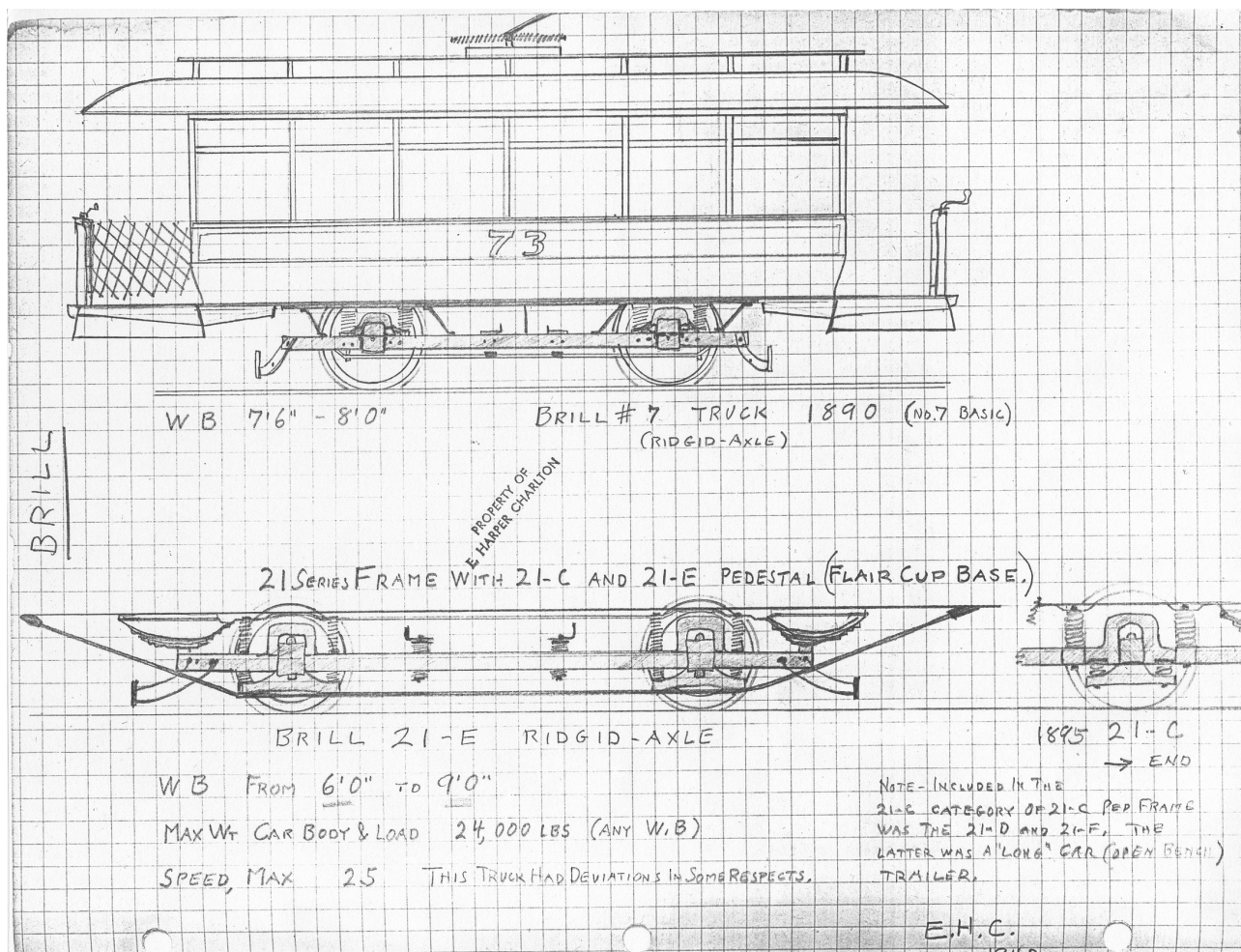
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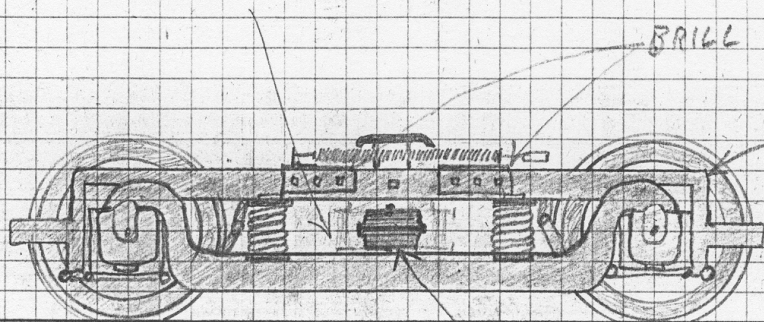
BRILL

PROPERTY OF
E. HARPER CHARLTON

NO ANGLE OR
BRACE BARS ON FRAME

BRILL DISTINCTIVE

BRILL DISTINCTIVE



WIDE SINGLE LEAF
PLATE - ELIPTIC BOLSTER
SPRING ON 27MCB 1

27 SERIES BRILL MCB

| | CAR BODY WEIGHT | MAX SPEED | W.B |
|---------|--------------------|--------------|--------------|
| 27MCB 1 | 40,000 | 50 | 6'0" to 6'6" |
| " " | 2-X 46,000 | 50 | 6'0" to 6'6" |
| " " | 2 63,000 | 60 | 6'3" to 6'6" |
| " " | 3-X 63,000 | 60 | 6'3" to 6'6" |
| " " | 3 88,000 | 65 | 6'6" to 7'0" |
| " " | 4-X 88,000 | 65 | 6'6" to 7'0" |
| " " | 4 120,000 | 75 | 7'0" to 8'0" |

27MCB 2 HAD TWIN
ELIPTIC SPRING

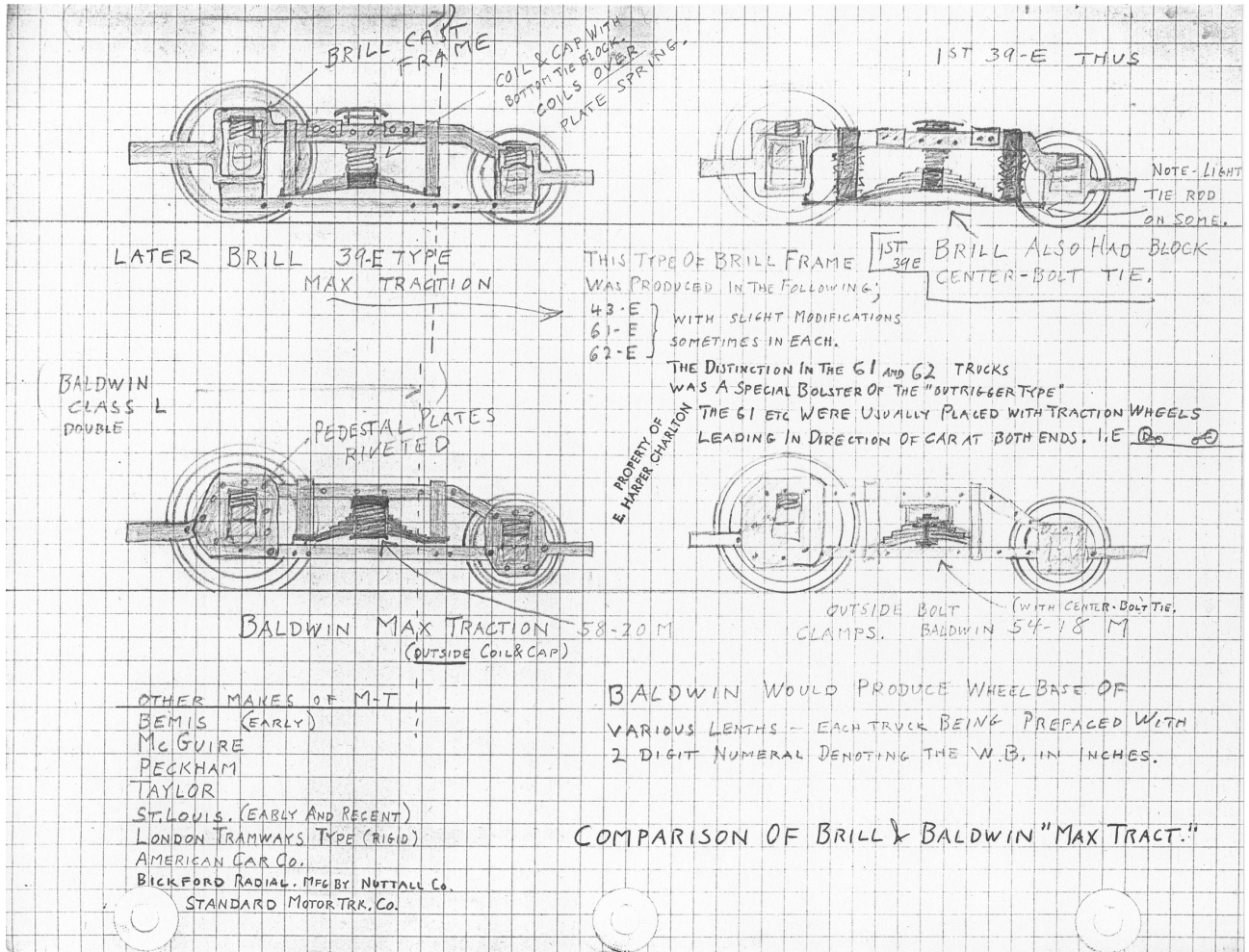
27MCB 3 HAD TRIPLET (OR
MORE) ELIPTIC SPRING

EMC 1940

27-E SERIES BRILL

| | CAR BODY WEIGHT | MAX SPEED | WHEEL BASE |
|---------|--------------------|--------------|---------------|
| 27-E 1 | 40,000 | 50 | 6'0" to 6'6" |
| 27-E 1½ | 53,000 | 60 | 6'0" to 6'6" |
| 27-E 2 | 63,000 | 65 | 6'3" to 7'0" |
| 27-E 2½ | 75,000 | 75 | 6'6" to 7'6" |

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