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M-18-C

COLORADO DEPARTMENT OF HIGHWAYS

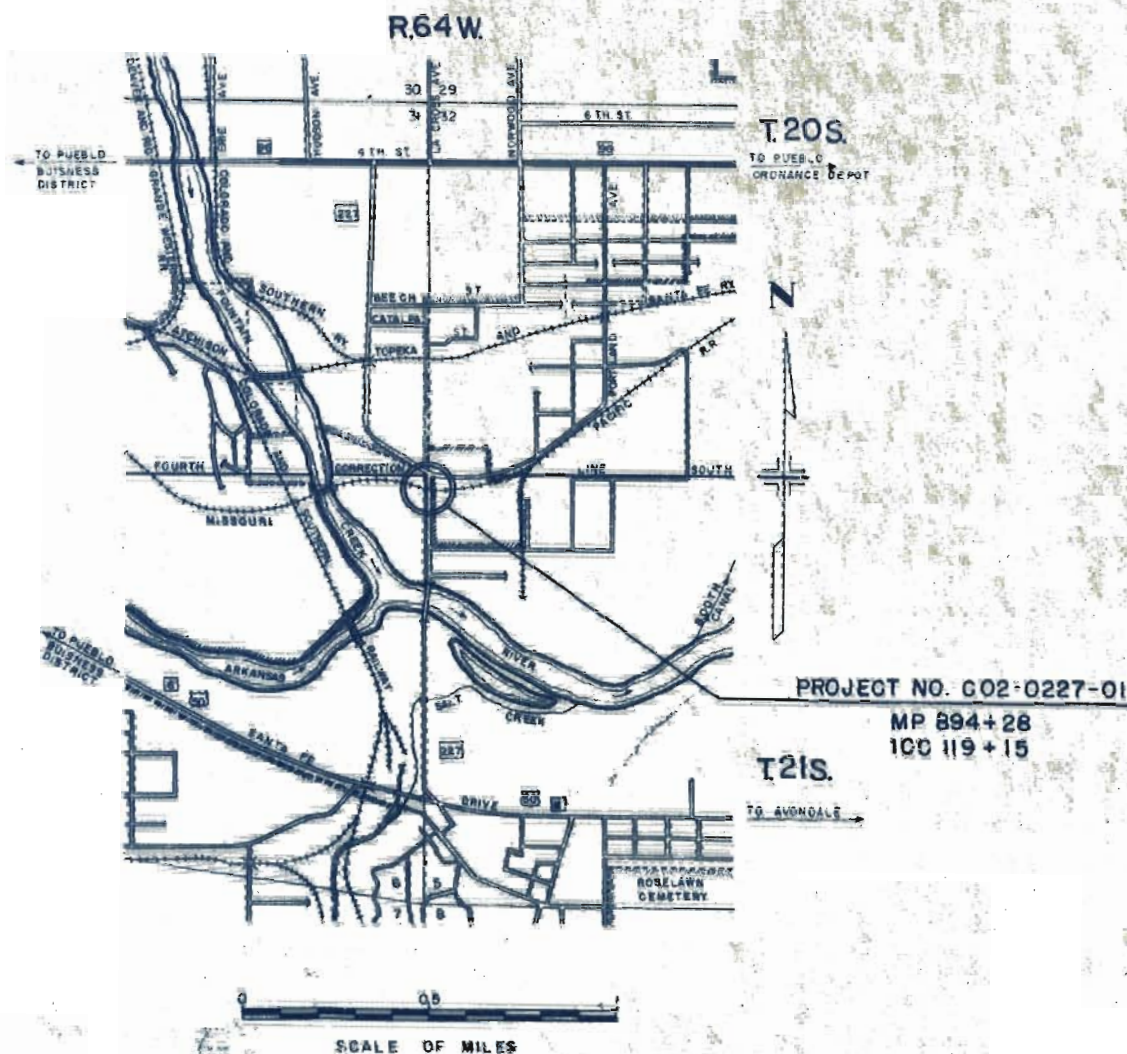
PLAN AND PROFILE OF PROPOSED GRADE CROSSING PROJECT NO. C 02-0227-01 STATE HIGHWAY NO. 227 PUEBLO COUNTY

SCALES OF ORIGINAL DRAWINGS

ON PLAN, 1 IN. = 100 FT.
 ON PROFILE, 1 IN. = 100 FT. HORIZONTAL
 1 IN. = 10 FT. VERTICAL
 GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
 GROSS LENGTH OF PROJECT
 NET LENGTH OF PROJECT

CONVENTIONAL SIGNS

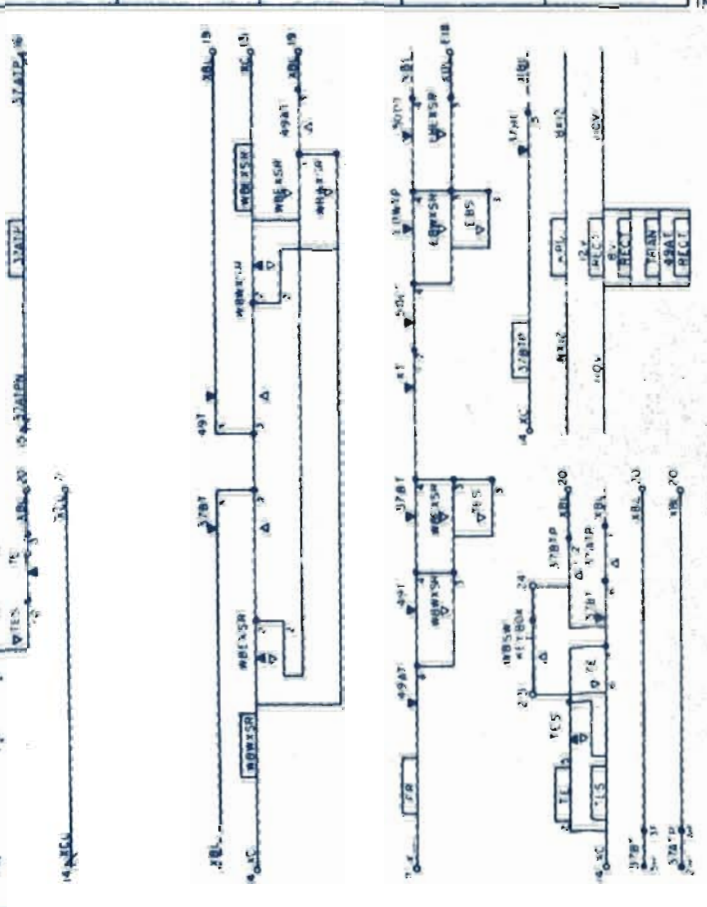
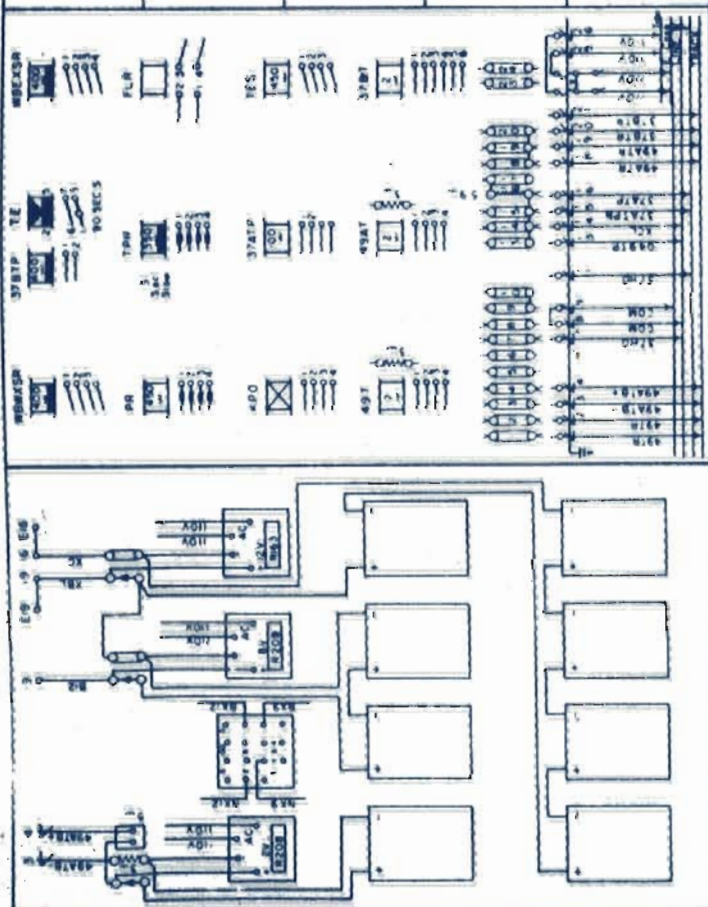
PLAN SHEET	TITLE SHEET
CENTER LINE	
RIGHT OF WAY LINE	
COUNTY LINE	
TOWNSHIP OR RANGE LINE	
LAND LINES	
RAILROAD	
BARBED WIRE FENCE	
COMBINATION WIRE FENCE	
SNOW FENCE	
TELEPHONE & TELEGRAPH LINES	
POWER LINE	
DETOUR	
PRESENT ROAD (Plan Sheets)	



COLORADO
DEPARTMENT OF HIGHWAYS

APPROVED:

Mark H. Williams 12-18-61
 CHIEF ENGINEER DATE



Standard Types of Railroad Warning Signs

STANDARD M-18-C

FED. ROAD RES. NO.	DIVISION	PROJECT NO.	SHEET NO.
1	COLO.	C02-0227-01	4

RAILROAD ADVANCE WARNING SIGNS

SPECIFICATIONS

POSTS: 4"x4" Untreated Wood conforming to Item 42 of the Specifications. Length of posts to be determined from typical section on plans and local conditions.

SIGN: 16 ga. steel plate or acceptable equivalent. Type - A.A.S.H.O. designation W-32.

PAINTING & MARKING: Wood posts shall be painted in accordance with Item 38 of the specifications using one (1) coat of primer and two (2) coats of outside white.

Metal sign to have a black crossbuck and letters on a "Highway Yellow" background. Sign shall be reflectorized with reflective sheeting, reflector buttons or other reflective materials of approved types acceptable to the Department.

INSTALLATION - URBAN: (2-Lane Highway)

Signs shall be placed on right side of road or street facing approaching traffic in resident or business districts where low speeds are prevalent, signs are to be placed a minimum distance of 100 feet from the crossing. In all cases signs shall be placed at a distance from the crossing great enough to provide adequate stopping distance for the prevailing speed of traffic thru that area.

Consideration shall be given to intersecting roads or streets and local conditions whereby additional signs may be required.

Signs shall be placed in advance of every railroad crossing regardless of other controls present except for the following conditions:

- At a minor siding or spur which is infrequently used and which is guarded by a member of the train crew when in use.
- In business districts of large cities where crossings are fully protected and the physical conditions are such that even a partial display of the sign is impossible.

NOTE

On sign installations where roadway grades are not level it may be desirable to place signs out of plumb either forward or rearward depending on the grade, so as to keep the angle of view close to 90°.

URBAN INSTALLATION

INSTALLATION - RURAL: (2-Lane Highway)

Signs shall be placed on right side of road facing approaching traffic. Sign to be placed normally 500 feet in advance of crossing although local conditions such as grades, curves and limited sight distance might make some intermediate distance between 300 and 500 feet more satisfactory.

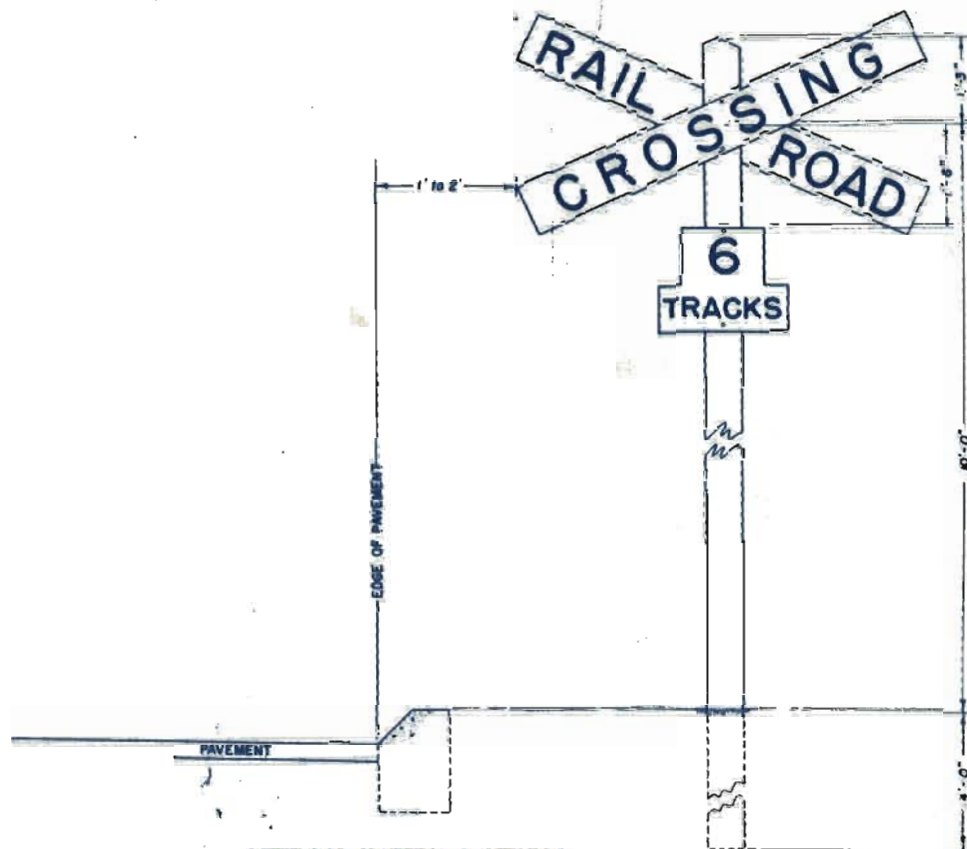
In all cases the distance shall be great enough to permit traffic to be brought to a complete halt before the crossing is reached.

Roadway intersections within minimum placement distance should be considered for additional signs.

Signs shall be placed in advance of every railroad crossing regardless of other controls present except for the following condition:

- At a minor siding or spur which is infrequently used or when used is guarded by a member of the train's crew.

RURAL INSTALLATION



URBAN INSTALLATION

MOUNT WITH 1/2" DIA. BOLTS OR LAG SCREWS

INSTALLATION - RURAL & URBAN (2-Lane Highway)
Crossbuck Signs shall be erected on the right side of roadway on each approach to the crossing, not less than fifteen (15) feet from the centerline of the nearest track.

The distance that should be assumed to separate tracks before an additional crossing sign is considered necessary is 100 ft., unless local conditions require otherwise.

SIDE VIEW

GENERAL NOTES

All work shall be done in accordance with the Standard Specifications of the Colorado State Highway Department applicable to the Project.

All Crossbuck and Advance Warning Signs shall be constructed, painted, marked and erected in accordance with details shown on this sheet and in conformity with data set forth under the following publications:
"Manual on Uniform Traffic Control Devices for Streets and Highways" Adopted 1952 (Revised 1956), published by The Colorado Department of Highways.
Section 88 and 89, Page 54

"Bulletin No. 5, Railroad-Highway Grade Crossing Protection" dated 1955, published by Association of American Railroads.

Details shown on this sheet take precedence over conflicting details shown in Bulletin No. 5 referred to above.

Wood posts as detailed above shall not be placed in the ground set in concrete.
For Multi-Lane divided highways see plans for placement of warning signs

RAILROAD CROSSBUCK SIGNS

SPECIFICATIONS

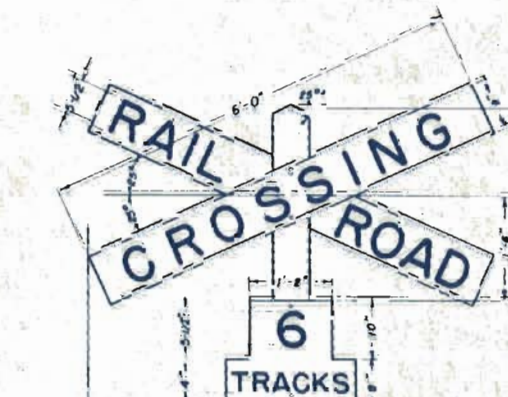
POSTS: 6"x6" Untreated Wood conforming to Item 42 of the Specifications. Length of posts to be determined from typical section on plans and local conditions.

CROSSBUCKS: 1/4" Boiler Plate or acceptable equivalent. Type - A.A.S.H.O. designation W-53

TRACK SIGN: 14 ga. flat steel or acceptable equivalent

PAINTING & MARKING: Wood posts shall be painted in accordance with Item 38 of the specifications using one (1) coat of primer and two (2) coats of outside white.

Crossbuck and track signs shall be white with all lettering and numerals black. All signs are to be reflectorized with reflective sheeting, reflector buttons or reflective materials of approved types.



SIDE VIEW

RURAL INSTALLATION

COLORADO
DEPARTMENT OF HIGHWAYS

Standard Types
Of
Railroad Warning Signs

Designed by
Made by C.G.M.
Checked by
Approved by J. J. J.
Engineer - Survey & Plans
Date: July 20 1957