

CCSJ #	0914-24-029
AFA CSJs	0914-24-029
District #	AFA ID
Code Chart 64 #	
Project Name	RAILROAD REPLANKING, INSTALLATION OF SIGNS AND MARKINGS

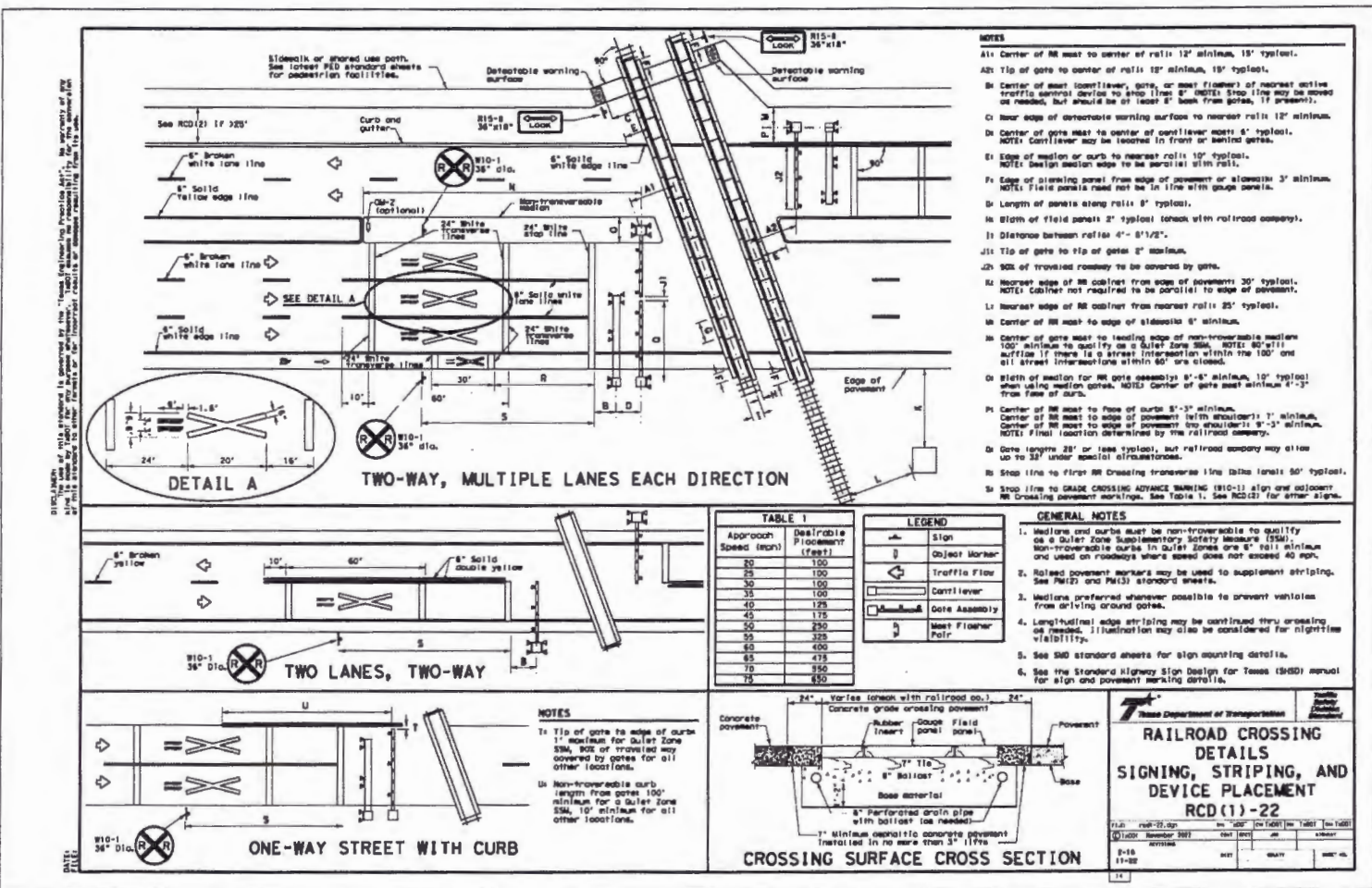
Attachment B SCOPE OF WORK (SOW)

- The Railroad or its Contractor shall remove the existing crossbucks and dispose of foundations.
- The Railroad or its Contractor shall install flashing lights with gates.
- The Railroad or its Contractor shall install climate-controlled signal cabin with constant warning technology.
- The Railroad or its Contractor shall install a new 24' concrete crossing surface.
- The Railroad or its Contractor shall furnish, install and maintain crossbuck (R15-1) signs, number of track (R15-2P) signs when needed, emergency notification (ENS, I-13) signs, and sign mounting brackets.
- The State or its Contractor will furnish, install and/or replace the appropriate pavement markings in accordance with the Texas Manual on Uniform Traffic Control Devices (TMUTCD) and the attached standard sheets.
- The State or its Contractor will furnish, install and/or replace the following signs in accordance with the TMUTCD and the Standard Highway Signs Design Manual (SHSD): (1) W10-1, (2) W10-3, (1) W10-11b.
- The State will provide traffic control in accordance with the guidelines in the TMUTCD and the attached standard sheets for the installation of signage and/or pavement markings.
- The State and the County agree maintain pavement markings and advance warning signs under their jurisdiction in accordance with the TMUTCD and as shown on the attached standard sheets.
- The State and the County agree to trim and maintain trees and vegetation along roadway approaches within their jurisdiction for adequate visibility of the crossing signals and advance warning signs as installed.

NOTES

The Railroad or its Contractor shall provide traffic control in accordance with the guidelines in the Texas Manual on Uniform Traffic Control Devices and the attached standard sheets for the installation or upgrade of railroad warning devices.

The Railroad or its Contractor shall provide traffic control in accordance with the guidelines in the Texas Manual on Uniform Traffic Control Devices (TMUTCD) and the attached standard sheets for the installation of the railroad crossing surface.



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PASSIVE CROSSING

NOTES

1. STOP or YIELD sign may also be installed to the left of the crossbuck sign, rather than below it.
2. A 2" white retroreflective strip shall be installed on front and back of crossbuck sign post.
3. See the Crossbuck Assembly with YIELD or STOP sign at Positive Grade Crossings section of the MUTCD for further details about sign mounting arrangements.

PATHWAY CROSSING

NOTES

1. A shared use path is considered a separate pathway crossing when more than 25' from traveled way of adjacent roadway.
2. Detachable warning used as stop bar.
3. Smaller signs preferred. See the Design of Bicycle Sign section within the MUTCD for sizing details.

GRADE CROSSING NEAR A PARALLEL STREET

"A" < 100'	"A" > 100'
See Table 1. Place pavement markings and signs on opposite side of intersection from rail if spacing from Table 1 would put markings within intersection.	See Table 1. Place pavement markings and signs between rail and intersection if spacing from Table 1 would put markings within intersection.
See Table 1.	GRADE CROSSING AND INTERSECTION ADVANCE WARNING (R10-2, R10-3, R10-4) signs should only be installed if R10-1 sign is not between intersection and railroad crossing. If needed, see Table 1.

T-INTERSECTION

NOTE

Railroad crossing pavement markings and adjacent signs not installed when distance between rear edge of intersection and rear rail is less than 100'. GRADE CROSSING AND INTERSECTION ADVANCE WARNING (R10-3) signs installed on roadway parallel with rail in this case.

TWO ADJACENT CROSSINGS

NOTE

Separate active traffic control devices, railroad crossing pavement markings, and adjacent signs required when tracks are more than 100' apart.

TWO-WAY

NOTE

Minimum 7' median width to support sign. Minimum 6' median width to support sign.

TWO-WAY WITH MEDIAN

NOTE

See Table 1

ONE-WAY

NOTE

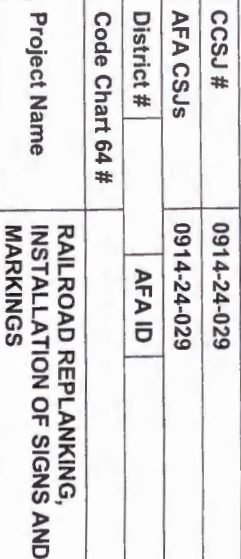
See Table 1

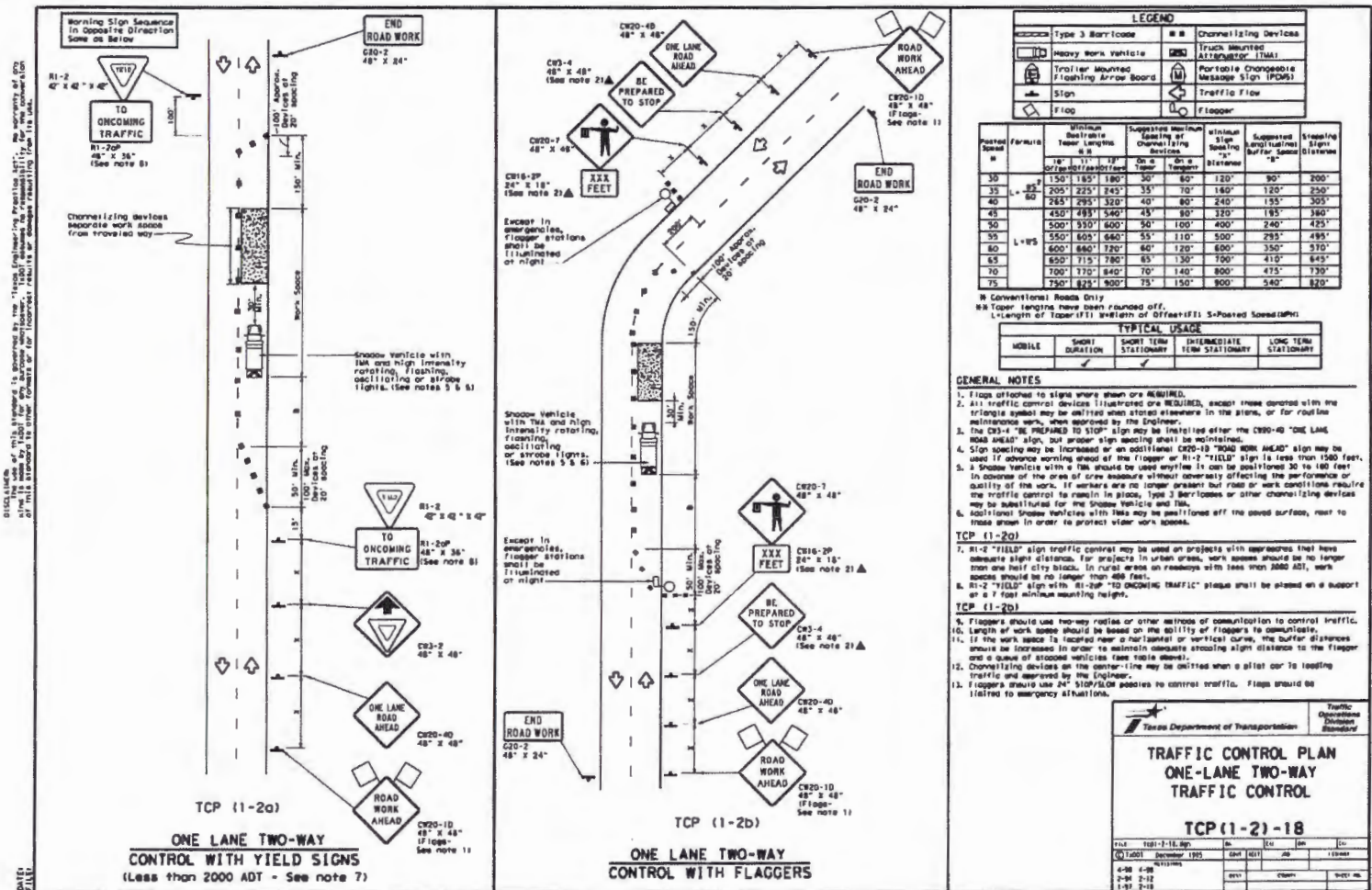
GENERAL NOTES

1. Railroad crossing to provide active traffic control devices, CROSSBUCK (R15-1), NUMBER OF TRACKS (R15-2P) plaque (if more than 1 track), and EMERGENCY NOTIFICATION (1-13) sign.
2. LOW GRADE CLEARANCE (R10-3) signs may be requested further upstream of crossing to provide advance warning of alternate route.
3. GRADE CROSSING AND INTERSECTION ADVANCE WARNING (R10-2) signs may be modified as needed to fit roadway geometry.
4. Table 1 placement distances may vary per the Placement of Warning Signs section of the MUTCD.
5. See Table 1 to determine placement of STOP AHEAD (R15-1) and YIELD AHEAD (R15-2) signs unless shown otherwise.
6. DO NOT STOP ON TRACKS (R15-3) signs installed when potential for vehicles stopping on tracks is significant as determined by seeing engineer. Install 30 sign does not block view of RR track.
7. See the Standard Highway Sign Design for Texas (SHSD) manual for sign and pavement marking details.

SIGNS

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