

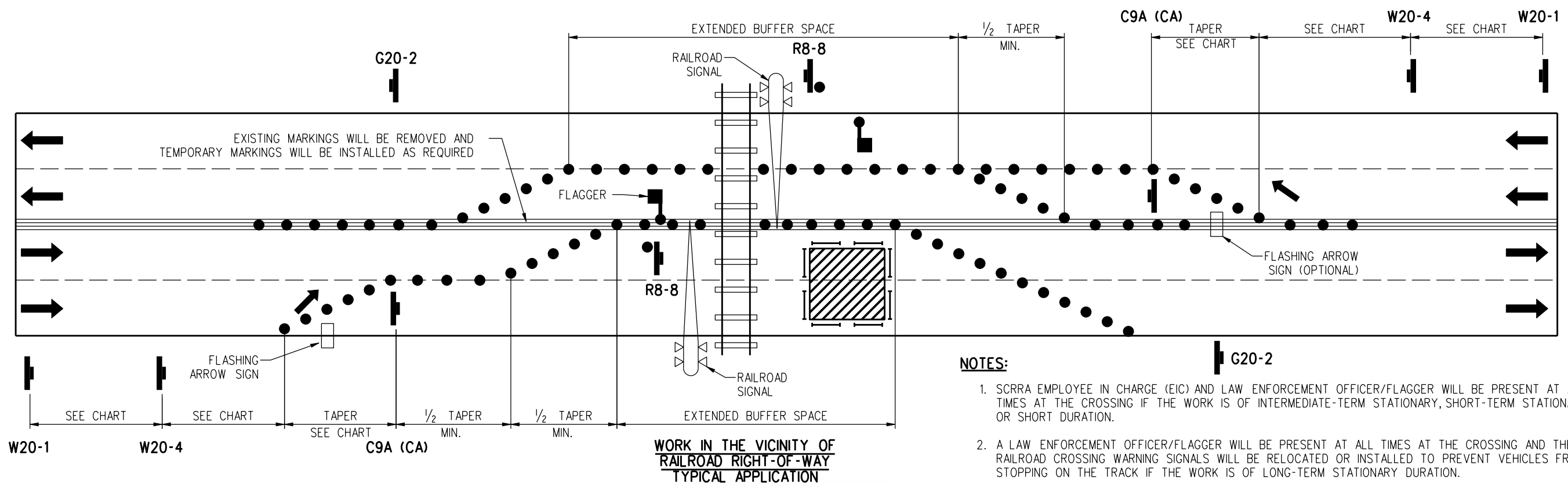
LEGEND:

- ROAD WORK AHEAD
- ONE LANE ROAD AHEAD
- END ROAD WORK
- G20-2
- W20-1
- W20-4
- C9A (CA)
- R8-8
- SIGN
- CONE OR PORTABLE DELINEATOR
- FLASHING ARROW SIGN
- FLAGGER
- DIRECTION OF TRAFFIC
- WORK SPACE
- TYPE III BARRICADE

NOTE:
FOR ADDITIONAL NOTES AND CHART SEE SHEET ES4301-02.

- NOTES:**
1. SCRRRA EMPLOYEE IN CHARGE (EIC) AND LAW ENFORCEMENT OFFICER/FLAGGER WILL BE PRESENT AT ALL TIMES AT THE CROSSING IF THE WORK IS OF INTERMEDIATE-TERM STATIONARY, SHORT-TERM STATIONARY, OR SHORT DURATION.
 2. THE HIGHWAY-RAIL CROSSING WILL BE CLSDED TO ROAD USERS IF THE WORK IS OF LONG-TERM STATIONARY DURATION.

**WORK WITHIN RAILROAD RIGHT-OF-WAY
TYPICAL APPLICATION**



- NOTES:**
1. SCRRRA EMPLOYEE IN CHARGE (EIC) AND LAW ENFORCEMENT OFFICER/FLAGGER WILL BE PRESENT AT ALL TIMES AT THE CROSSING IF THE WORK IS OF INTERMEDIATE-TERM STATIONARY, SHORT-TERM STATIONARY, OR SHORT DURATION.
 2. A LAW ENFORCEMENT OFFICER/FLAGGER WILL BE PRESENT AT ALL TIMES AT THE CROSSING AND THE RAILROAD CROSSING WARNING SIGNALS WILL BE RELOCATED OR INSTALLED TO PREVENT VEHICLES FROM STOPPING ON THE TRACK IF THE WORK IS OF LONG-TERM STATIONARY DURATION.

PRE-FINAL SUBMITTAL

REV.	DATE	DESCRIPTION	DES.	ENG.
3	05/19/10	REVISED SIGN LOCATIONS AND NOTE 1	AC	NDP
2	10/31/05	REVISED NOTES, SIGNS, SHEET NUMBER AND TITLE BLOCK	AC	MEM
1	04/01/04	REVISED NOTES	AC	NP

DRAWN BY:	A. CARLOS	DATE:	04/01/03
APPROVED BY:	<i>Nancy D. Pyle</i>		
MANAGER:	CIVIL ENGINEERING		
APPROVED BY:	<i>Danell V. Maxey</i>		
DIRECTOR OF ENGINEERING AND CONSTRUCTION:			

THE SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF THIS PLAN SHEET

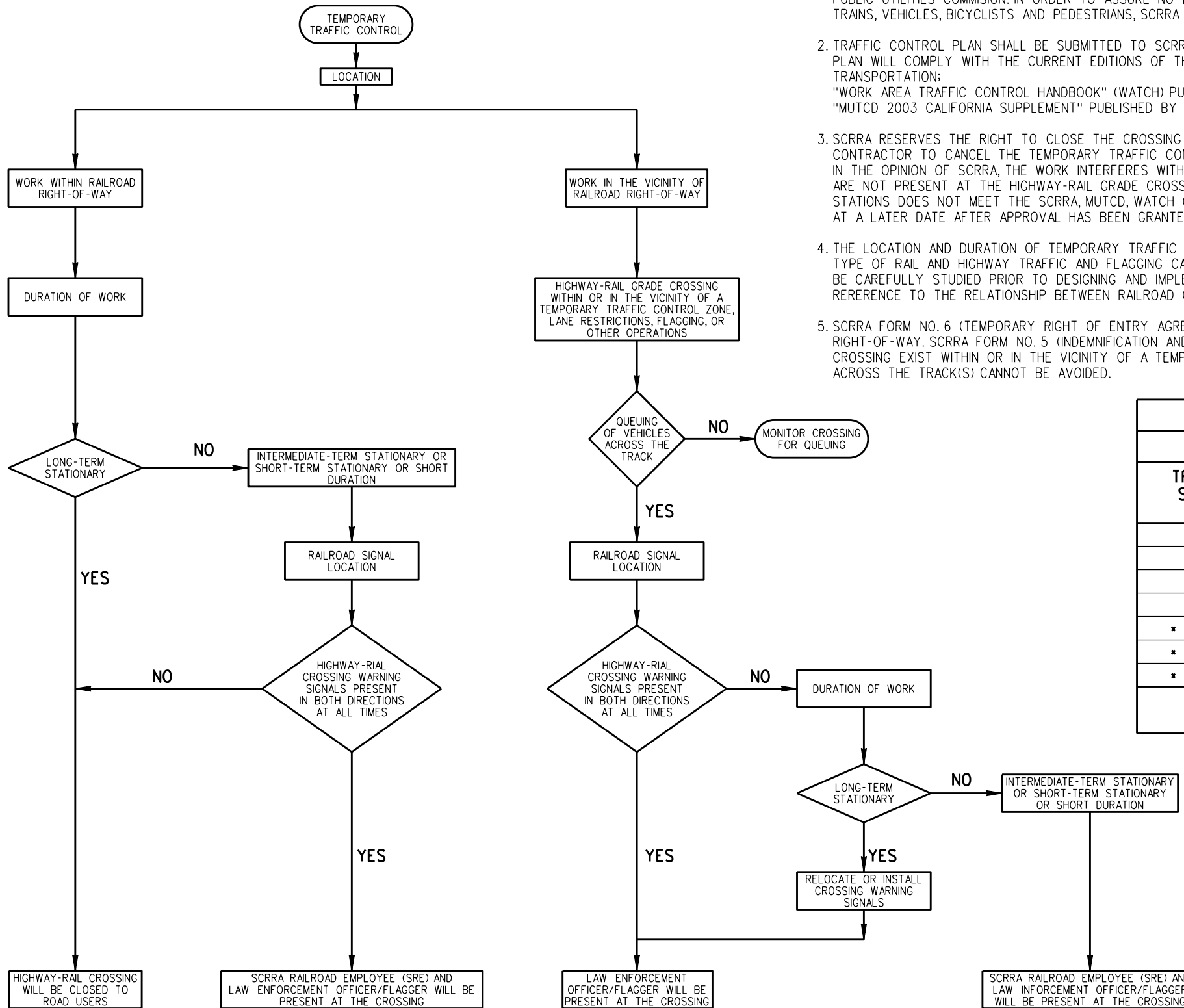
METROLINK
SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY
700 SOUTH FLOWER STREET, 26TH FLOOR
LOS ANGELES, CALIFORNIA 90017

ENGINEERING STANDARDS

TEMPORARY TRAFFIC CONTROL AT OR NEAR GRADE CROSSINGS

STANDARD	4301
SCALE:	NONE
REVISION	SHEET
3	1 OF 2
CAAD FILE:	ES4301-01

FLOW CHART



NOTES:

1. TEMPORARY TRAFFIC CONTROL PLANNING AND DESIGN SHALL BE COORDINATED WITH THE SOUTHERN CALIFORNIA REGIONAL RAIL AUTHORITY (SCRRRA) SINCE PUBLIC AGENCIES AND SCRRRA ARE OBLIGATED TO COORDINATE ALL INSTALLATION, OPERATION, MAINTENANCE USE AND PROTECTION OF GRADE CROSSINGS ACTIVITIES UNDER THE CALIFORNIA PUBLIC UTILITIES COMMISSION. IN ORDER TO ASSURE NO DEGREDDATION OF THE SAFE OPERATION OF GRADE CROSSINGS AND TO PROVIDE SAFE AND EFFICIENT MOVEMENTS OF TRAINS, VEHICLES, BICYCLISTS AND PEDESTRIANS, SCRRRA MUST APPROVE ANY AND ALL TEMPORARY TRAFFIC CONTROL PLANS AND DEVICES.
2. TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO SCRRRA FOR ALL ACTIVITIES LOCATED WITHIN OR IN THE VICINITY OF HIGHWAY-RAIL GRADE CROSSINGS. TRAFFIC CONTROL PLAN WILL COMPLY WITH THE CURRENT EDITIONS OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION; "WORK AREA TRAFFIC CONTROL HANDBOOK" (WATCH) PUBLISHED BY SOUTHERN CALIFORNIA CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION AND "MUTCD 2003 CALIFORNIA SUPPLEMENT" PUBLISHED BY THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION (CALTRANS).
3. SCRRRA RESERVES THE RIGHT TO CLOSE THE CROSSING TO VEHICLE TRAFFIC, REVOKE THE TEMPORARY RIGHT OF ENTRY AGREEMENT OR ASK THE PUBLIC AGENCY OR THE CONTRACTOR TO CANCEL THE TEMPORARY TRAFFIC CONTROL IF, THE PUBLIC AGENCY OR CONTRACTOR ACTIVITY DOES NOT MEET MUTCD SECTION 6G-18 REQUIREMENTS; IN THE OPINION OF SCRRRA, THE WORK INTERFERES WITH OR ENDANGERS THE MOVEMENT OF ROAD USERS AND TRAIN TRAFFIC; LAW ENFORCEMENT OFFICER(S) OR FLAGGER(S) ARE NOT PRESENT AT THE HIGHWAY-RAIL GRADE CROSSING; OR THE FLAGGER QUALIFICATIONS, CLOTHING, HAND-SIGNAL DEVICES, FLAGGER PROCEDURES AND FLAGGER STATIONS DOES NOT MEET THE SCRRRA, MUTCD, WATCH OR CALTRANS REQUIREMENTS. THE TRAFFIC CONTROL WILL BE TERMINATED INSTANTLY AND WORK WILL BE RESUMED AT A LATER DATE AFTER APPROVAL HAS BEEN GRANTED BY SCRRRA.
4. THE LOCATION AND DURATION OF TEMPORARY TRAFFIC CONTROL, PROTECTION OR LACK OF PROTECTION BY RAILROAD CROSSING WARNING SYSTEM IN BOTH DIRECTIONS, TYPE OF RAIL AND HIGHWAY TRAFFIC AND FLAGGING CAN AFFECT THE DESIGN AND SELECTION OF TEMPORARY TRAFFIC CONTROL PLAN. THESE VARIABLE FACTORS SHOULD BE CAREFULLY STUDIED PRIOR TO DESIGNING AND IMPLEMENTING TEMPORARY TRAFFIC CONTROL ZONES. REFER TO THE ACCOMPANIED FLOW CHART THAT PROVIDES A QUICK RERERENCE TO THE RELATIONSHIP BETWEEN RAILROAD CROSSING CONDITIONS AND TRAFFIC CONTROL REQUIREMENTS.
5. SCRRRA FORM NO. 6 (TEMPORARY RIGHT OF ENTRY AGREEMENT) WILL BE EXECUTED AND SUBMITTED WHEN THE CONSTRUCTION ACTIVITY IS LOCATED WITHIN THE RAILROAD RIGHT-OF-WAY. SCRRRA FORM NO. 5 (INDEMNIFICATION AND ASSUMPTION OF LIABILITY AGREEMENT) WILL BE EXECUTED AND SUBMITTED WHEN HIGHWAY-RAIL GRADE CROSSING EXIST WITHIN OR IN THE VICINITY OF A TEMPORARY TRAFFIC CONTROL ZONE, LANE RESTRICTIONS, FLAGGING OR OTHER OPERATIONS AND QUEUING OF VEHICLES ACROSS THE TRACK(S) CANNOT BE AVOIDED.

CHART					
MINIMUM RECOMMENDED DELINEATOR AND SIGN PLACEMENT					
TRAFFIC ** SPEED	TAPER LENGTH (EACH LANE)	DELINEATOR SPACING		SIGN SPACING (BETWEEN SIGNS)	BUFFER SPACE (OR FLAGGER STATION)
		TAPER	TANGENT		
25 MPH	150 Ft	25 Ft	50 Ft	150 Ft	55 Ft
30 MPH	200 Ft	30 Ft	60 Ft	200 Ft	85 Ft
35 MPH	250 Ft	35 Ft	70 Ft	250 Ft	120 Ft
40 MPH	350 Ft	40 Ft	80 Ft	350 Ft	170 Ft
▪ 45 MPH	550 Ft	45 Ft	90 Ft	550 Ft	220 Ft
▪ 50 MPH	600 Ft	50 Ft	100 Ft	600 Ft	280 Ft
▪ 55 MPH	1000 Ft	50 Ft	100 Ft	1000 Ft	335 Ft

NOTES: * REFER TO SECTION 8 OF WATCH MANUAL FOR HIGH SPEED SITUATIONS. DISTANCES SHOWN IN PARENTHESIS ARE APPROXIMATE. ** 85TH PERCENTILE SPEED OR AS DIRECTED BY THE ENGINEER.

PRE-FINAL SUBMITTAL

REV.	DATE	DESCRIPTION	DES.	ENG.
1	05/19/10	OMITTED METRIC REFERENCES FROM TABLE	AC	NDP

DRAWN BY:	A. CARLOS	DATE:	04/30/05
APPROVED BY:	<i>Nancy D. Pyle</i>	MANAGER: CIVIL ENGINEERING	
	<i>Dannell V. Maxey</i>	DIRECTOR OF ENGINEERING AND CONSTRUCTION	

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ENGINEERING STANDARDS		STANDARD	4301
TEMPORARY TRAFFIC CONTROL AT OR NEAR GRADE CROSSINGS		SCALE:	NONE
REVISION	SHEET	CAAD FILE:	ES4301-02
1	2 OF 2		