

70MPH

142.6-143.0-40
143.0-176.2-49
176.0-1805-40
180.5-204.3-65
234.2-236.0-46



PTC -
52.8 - 143.0
204.3 - 237.8



2020

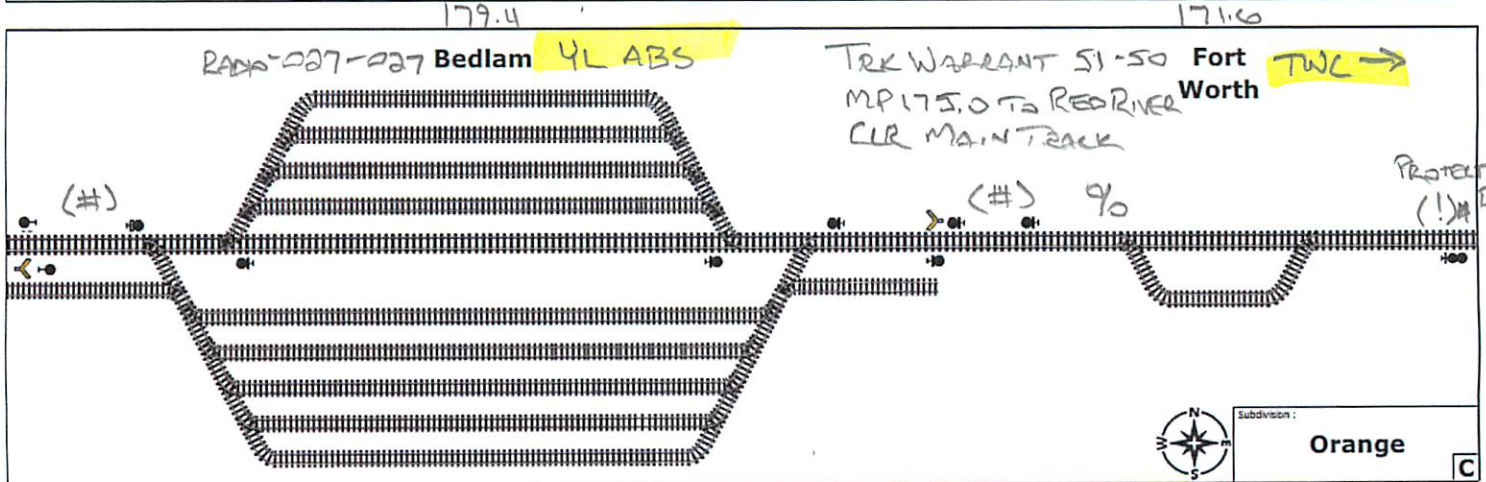
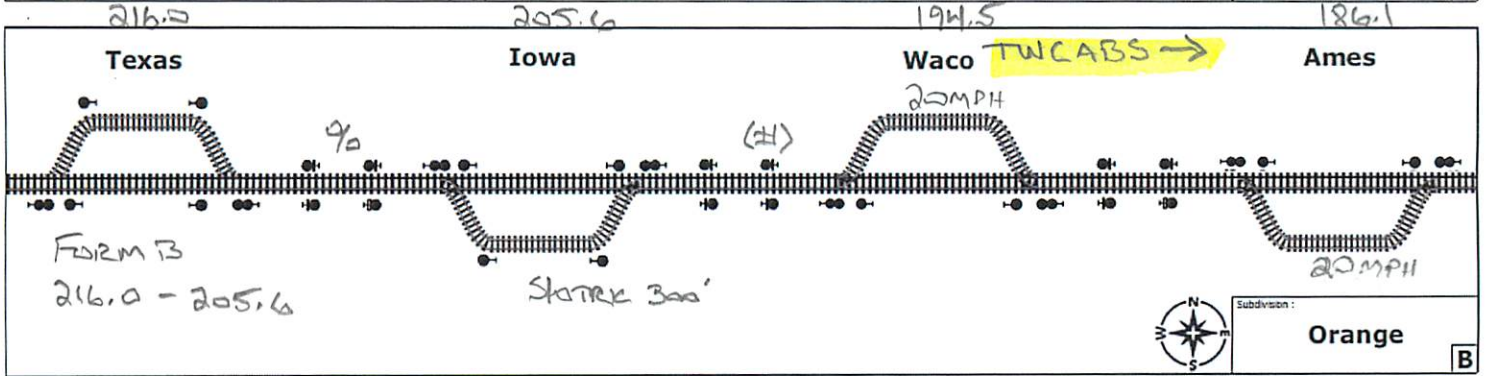
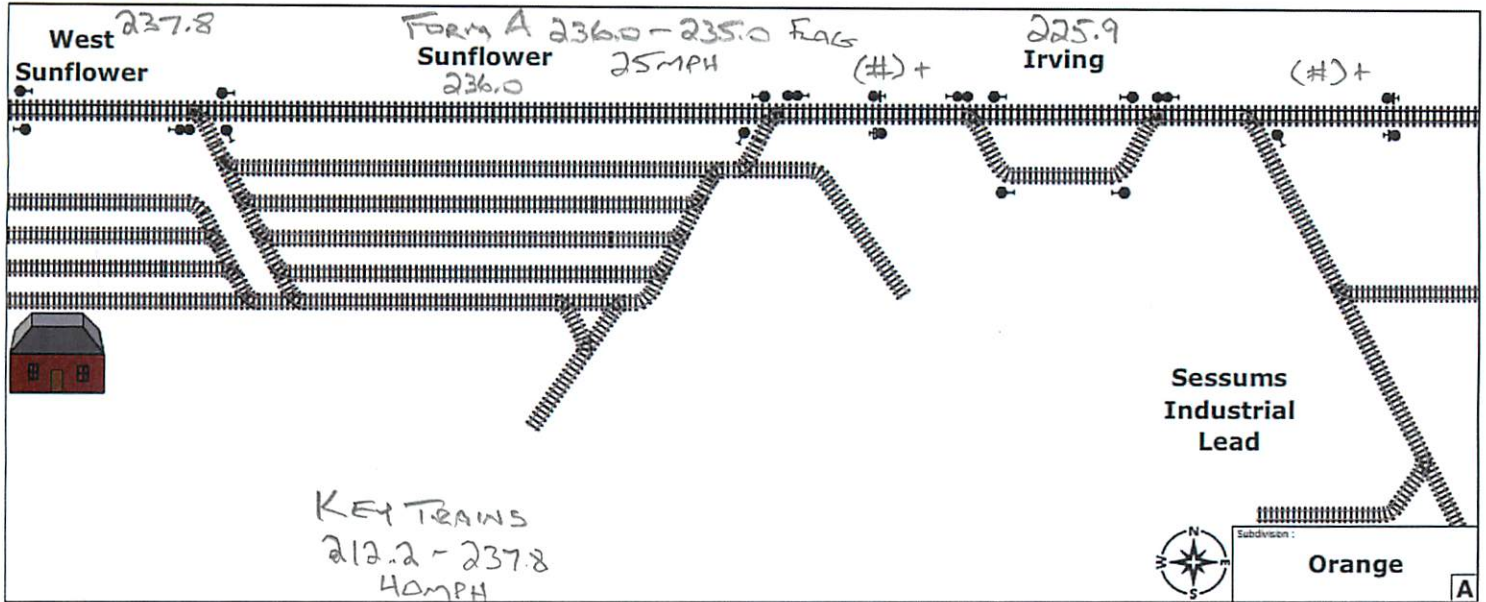
TE&Y Training Maps

To be used with Training Area Timetable
#5 Effective December 01, 2019

BUILDING AMERICA®

*Timetable area is west of North Platte, Denver
and El Paso

→ CTC



05/07/20

CONTACT YM FOR ZONES
EMP. ANNOUNCED TRK BREACH

EVERY 5 MILES

COND. RECORD NOT AT RS.

BEFORE P/M

ILXMD 15

111 L OE 5474T 6502'C 6744' TOTAL

UP 7430	C45ACCTE	12.1	9.8	36.3	29.4
↓ 6493	C44AC	↓	↓		
6064	C44ACCTE				

73 TPOB

318 AXLES

TRAIN LIMITS:

ROSE

IA431 - 12R143

326 TPA

SSC - 10910

HSC - 14878

OTHER THAN HALL

12R143 - CT321 FIELD

210 TPA

SSC 6874

HSC 9374

L

AFTER P/M

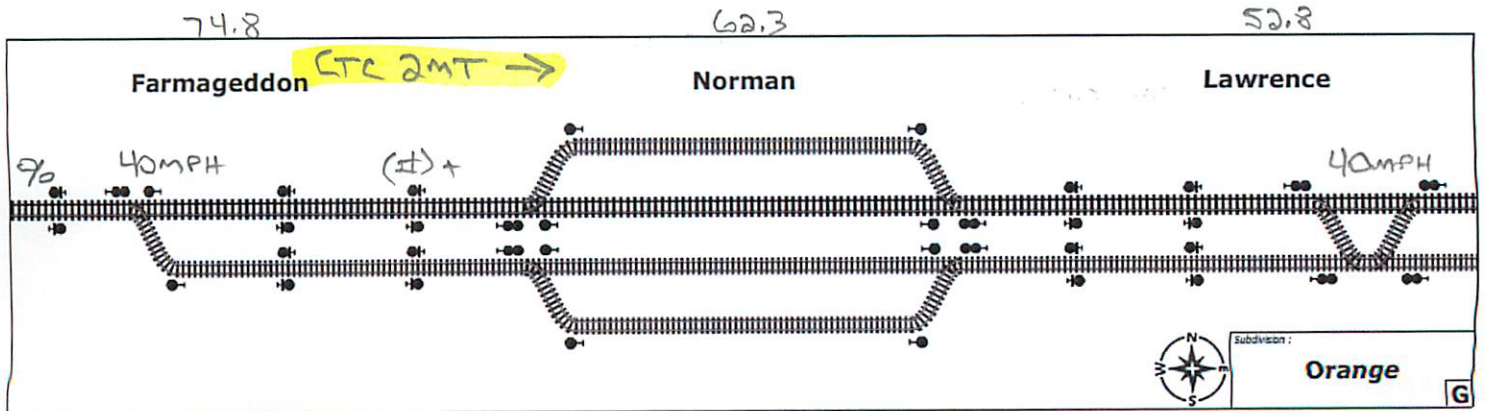
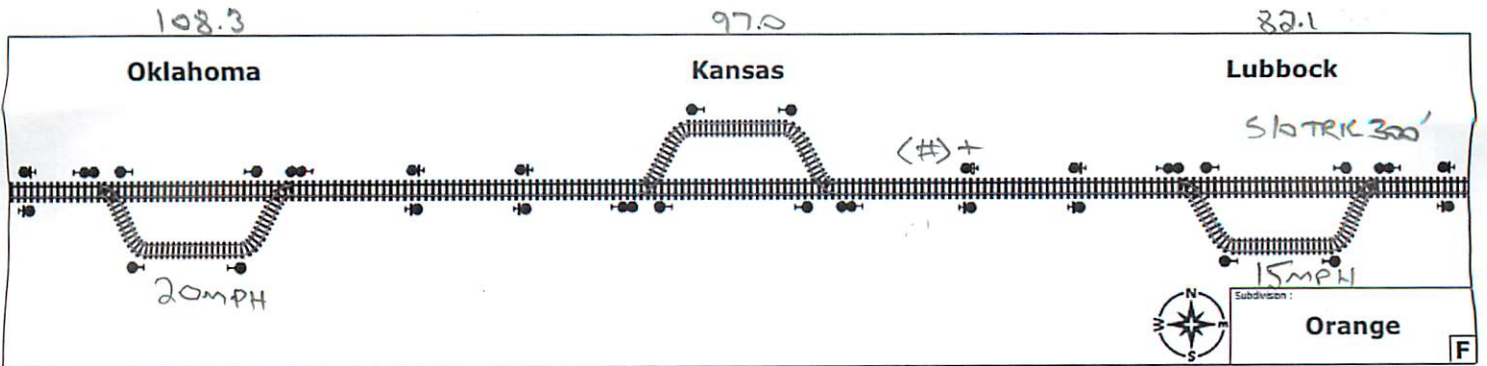
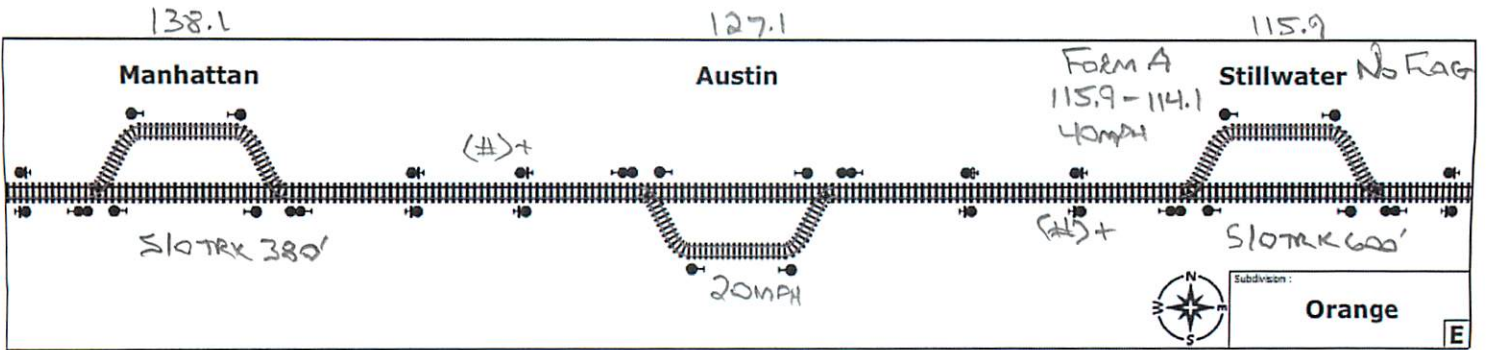
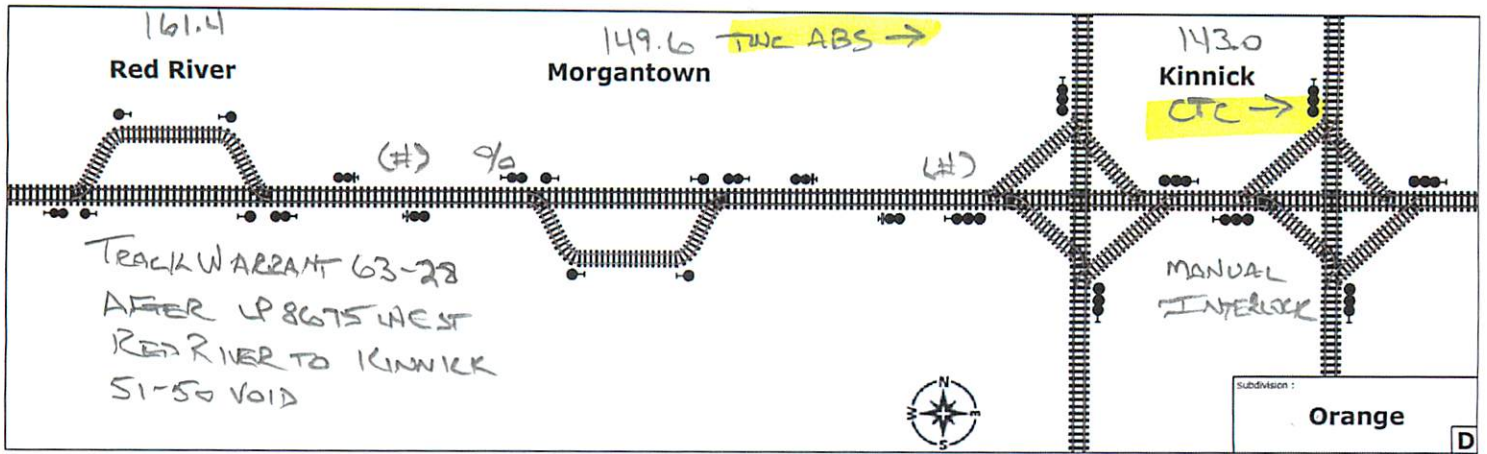
237 L OE 12283T 13847'C 14294' TOTAL

HE - SEE ABOVE

MID - UP 7229	C44AC	10.1	9.8		
↓ 8694	SD70AKE	12.0	10.5	72.5	59.5
REAR - UP 6914	C44ACKA	12.1	9.8		

79 TPOB

664 AXLES



KINNICK -
TURN OVER + W/E
20MPH

EXPLANATION OF CHARACTERS





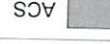



Symbol Represents

(1) Hot Wheel

Symbol Represents

+ HEAD - END RESTRICTION ONLY
 (R) REDUCE / RESUME SPEED SIGNS AT OTHER THAN PRESCRIBED LOCATION
 (#) HOT BOX AND DRAGGING EQUIPMENT DETECTOR STATION EQUIPPED WITH RADIO TRANSMITTED VERBAL INDICATOR
 # HOT BOX DETECTOR STATION EQUIPPED WITH RADIO TRANSMITTED VERBAL INDICATOR
 @ HOT BOX AND DRAGGING EQUIPMENT DETECTOR STATION EQUIPPED WITH RADIO TRANSMITTED VERBAL INDICATOR - TALK ON DEFECT ONLY WITH HOLD OR STOP SIGNALS
 \$ HOT BOX DETECTOR STATION EQUIPPED WITH RADIO TRANSMITTED VERBAL INDICATOR - TALK ON DEFECT ONLY
 % DRAGGING EQUIPMENT DETECTOR WITH RADIO TRANSMITTED VERBAL INDICATOR - TALK ON DEFECT ONLY
 & HIGH WIDE SHIFTED LOAD AND DRAGGING EQUIPMENT DETECTOR EQUIPPED WITH RADIO TRANSMITTED VERBAL INDICATOR
 (@) WHEEL IMPACT DETECTOR EQUIPPED WITH RADIO TRANSMITTED VERBAL DEFECT INDICATORS - TALK ON DEFECT ONLY
 (&) HIGH WIDE SHIFTED LOAD AND DRAGGING EQUIPMENT DETECTOR - TALK ON DEFECT ONLY
 (?) WHEEL DOWN INDICATOR - TALK ON DEFECT ONLY

Track Diagram Color Codes

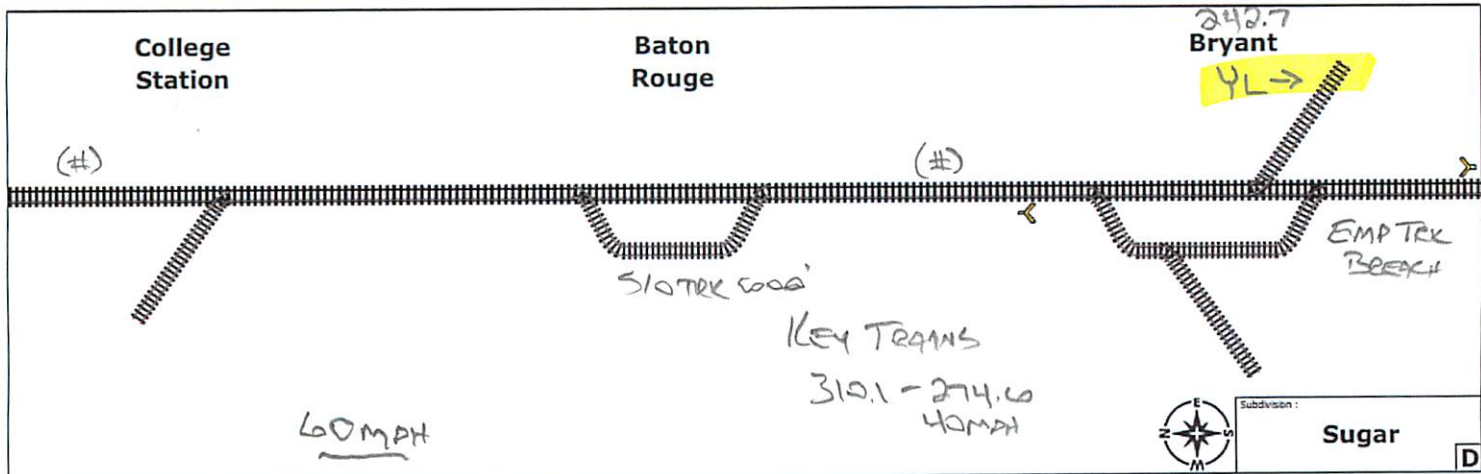
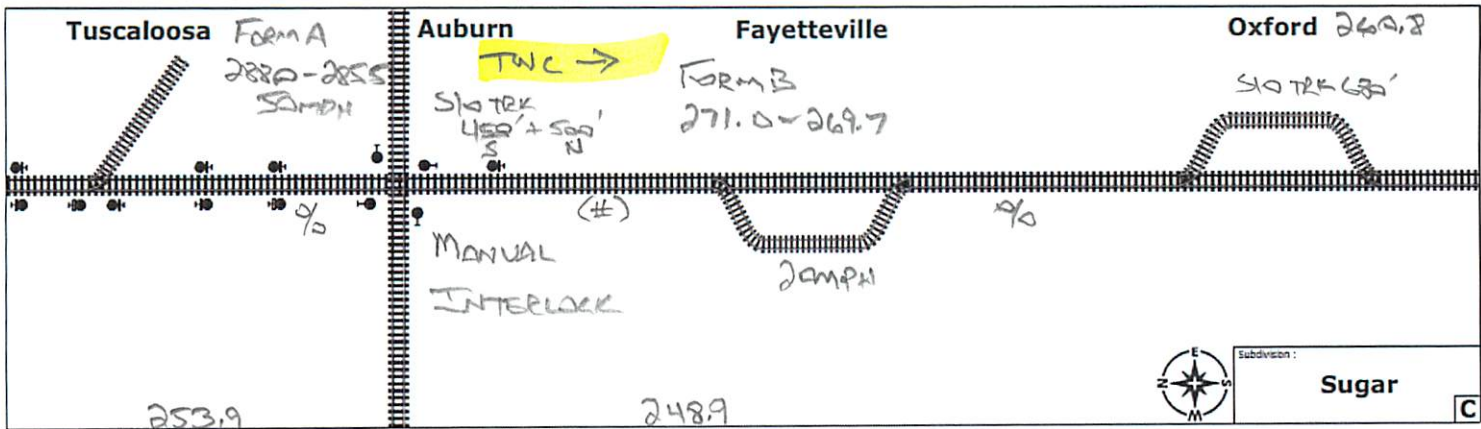
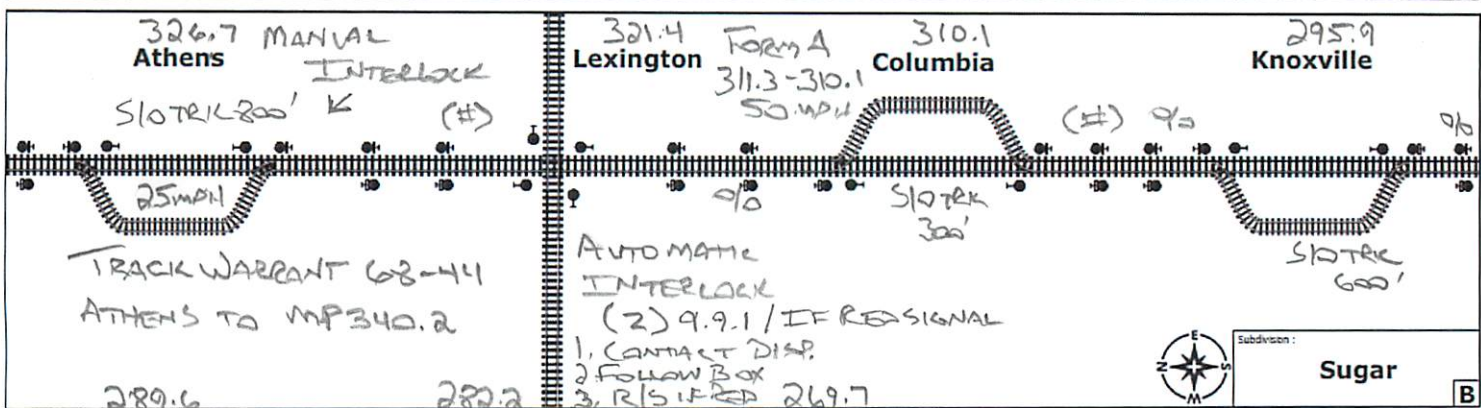
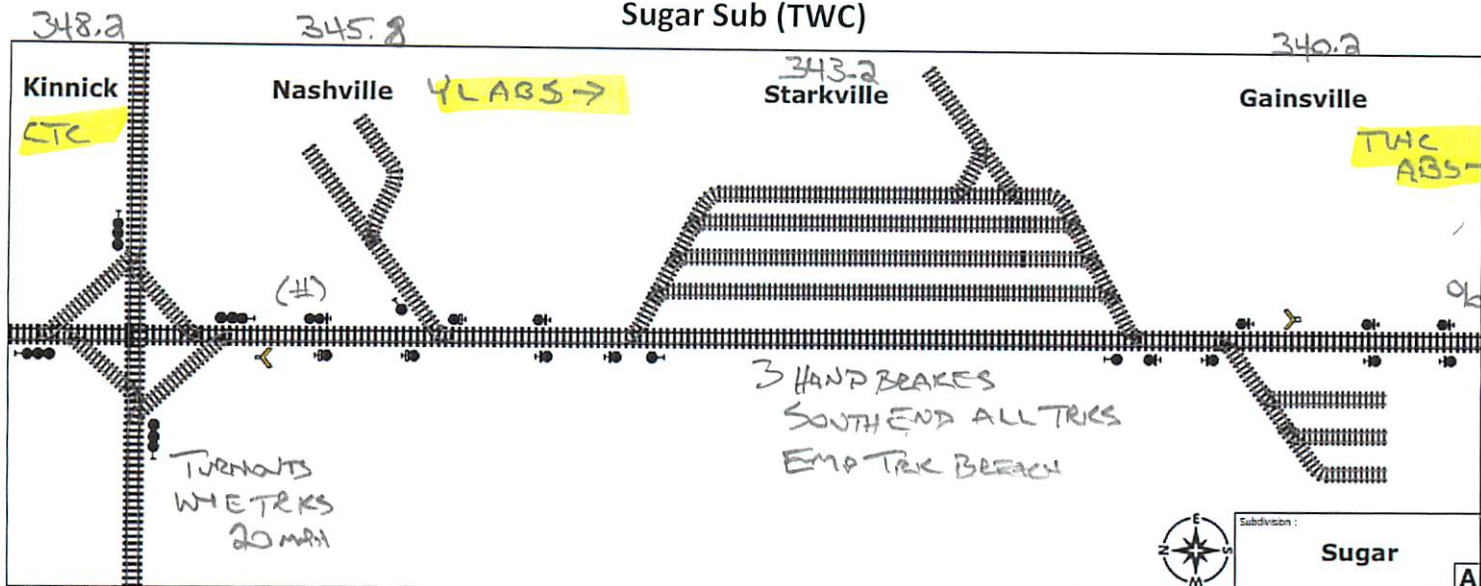
	CTC		ABS		TWC
	ATC		ACS		ATS
	9.14 / 9.15		9.14.2		
YL / RL / NON-SIGNALLED					

123.45	MILE POST FOR SUB LIMITS ARE IN BOLD AND ITALICIZED
ABS	AUTOMATIC BLOCK SIGNAL
ACS	AUTOMATED CAB SIGNAL
ATC	AUTOMATIC TRAIN CONTROL
ATS	AUTOMATIC TRAIN STOP
CTC	CENTRALIZED TRAFFIC CONTROL
RL	RESTRICTED LIMITS
TWC	TRACK WARRANT CONTROL
DT	DOUBLE TRACK
#MT	MULTIPLE MAIN TRACK - # (number MT's)
i	SIDING WITH ENTERING SIGNAL ALLOWING ASPECT MORE FAVORABLE THAN LUNAR
(A)	AUTOMATIC INTERLOCKING
B	BASE RADIO STATION
D	DRAW BRIDGE
(G)	GATE-NORMAL POSITION AGAINST CONFLICTING ROUTE
G	GATE-NORMAL POSITION AGAINST THIS SUBDIVISION
(M)	MANUAL INTERLOCKING
(S)	STOP SIGN
T	TURNING FACILITY
(X)	RAILROAD CROSSING AT GRADE
X	CROSSOVER BETWEEN MAIN TRACKS WITH DUAL CONTROL SWITCHES
Y	YARD LIMITS
(Z)	MANUAL INTERLOCKING WITH A RELEASE BOX AND A M/W KEY RELEASE, IF EQUIPPED
(1-2)	SPECIAL INSTRUCTIONS APPLY ITEM 11 - 2 SWITCH MACHINES
(1-3)	SPECIAL INSTRUCTIONS APPLY ITEM 11 - 3 SWITCH MACHINES
N	NORTHWARD
S	SOUTHWARD
E	EASTWARD
W	WESTWARD
C	CENTER

TABLE OF TRAIN SPEEDS

Min. Per Miles	Sec. Per Miles	Min. Per Sec.	Sec. Per Miles	Min. Per Miles	Sec. Per Miles	Min. Per Miles	Sec. Per Miles	Min. Per Miles	Sec. Per Miles	Min. Per Miles	Sec. Per Miles	Min. Per Miles	Sec. Per Miles	Min. Per Miles	Sec. Per Miles
0	45	80.0	1	6	54.5	1	21	44.4	1	35	37.9	1	35	37.9	10.0
0	48	75.0	1	7	53.7	1	22	43.9	1	40	36.0	1	40	36.0	15.0
0	50	72.0	1	8	52.9	1	23	43.4	1	45	34.3	1	45	34.3	20.0
0	52	69.2	1	11	50.7	1	25	42.4	1	55	31.3	1	55	31.3	24.8
0	54	66.6	1	12	50.0	1	26	41.9	1	60	30.0	1	60	30.0	25.7
0	56	64.2	1	13	49.3	1	27	41.4	1	65	28.8	1	65	28.8	26.7
0	58	62.0	1	14	48.6	1	28	40.9	1	70	27.7	1	70	27.7	27.7
0	60	60.0	1	15	48.0	1	29	40.4	1	75	26.7	1	75	26.7	28.8
1	1	59.0	1	16	47.4	1	30	40.0	1	80	25.7	1	80	25.7	30.0
1	1	58.0	1	17	46.7	1	31	39.6	1	85	24.8	1	85	24.8	31.3
1	1	57.1	1	18	46.1	1	32	39.1	1	90	24.0	1	90	24.0	32.7
1	1	56.2	1	19	45.6	1	33	38.7	1	95	23.0	1	95	23.0	34.3
1	1	55.3	1	20	45.0	1	34	38.2	1	100	22.0	1	100	22.0	37.9

Sugar Sub (TWC)



05/07/20

344.2 - 340.2 - 40

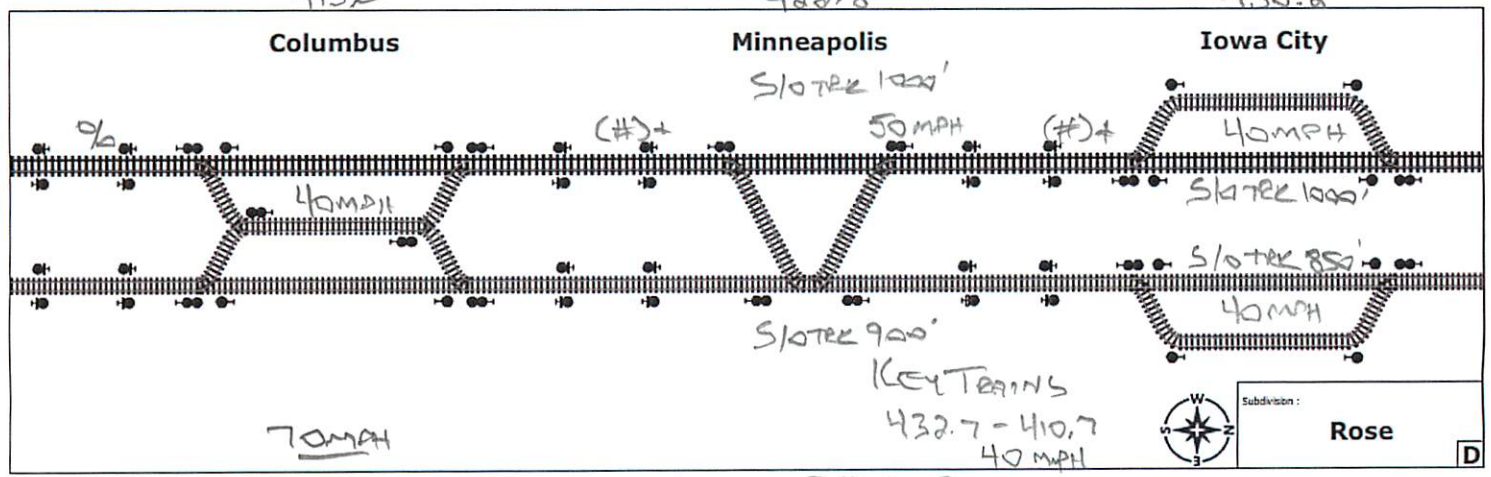
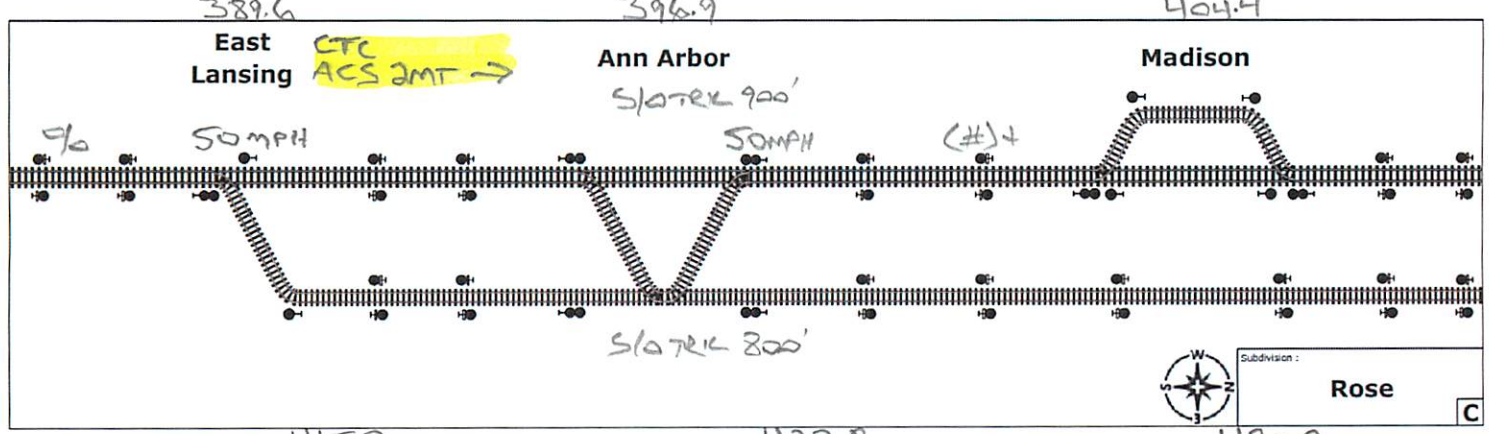
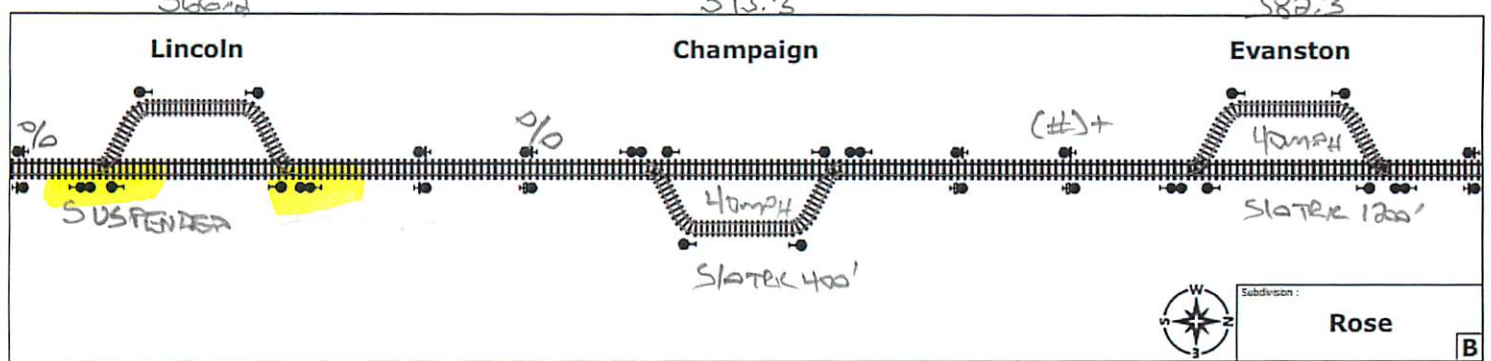
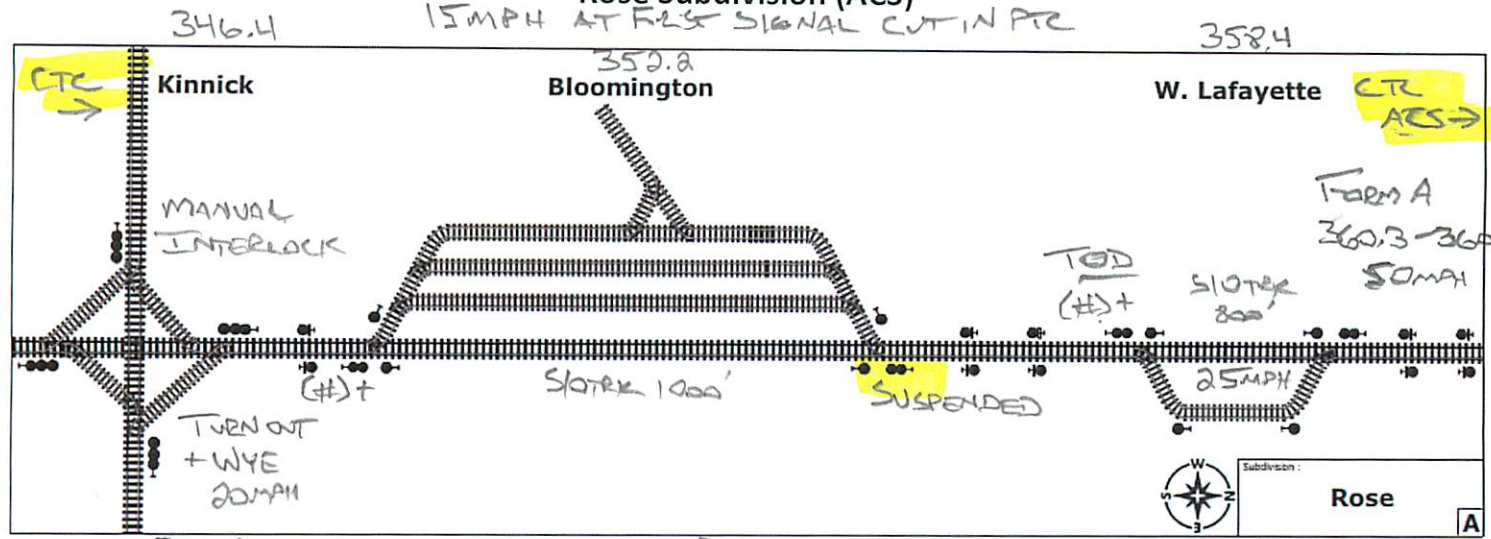
321.4 (x2) - 25

301.4 - 300.1 - 150

282.2 - 246.1 - 49

246.1 - 242.7 - 20

SIGNAL SUSPENSION - 366.2 - 354.4
 PTR SOT CLO AT 1ST SIGNAL
 Rose Subdivision (ACS)
 15MPH AT FIRST SIGNAL CUT IN PTR



420.7 - 418.6 - 55 354.4 - 352.2 - 30

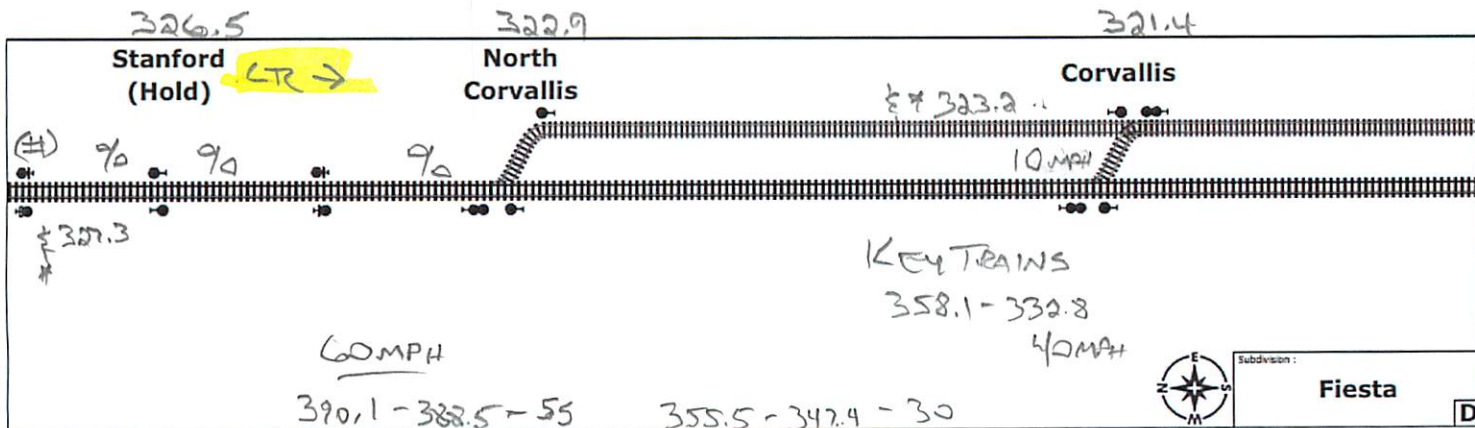
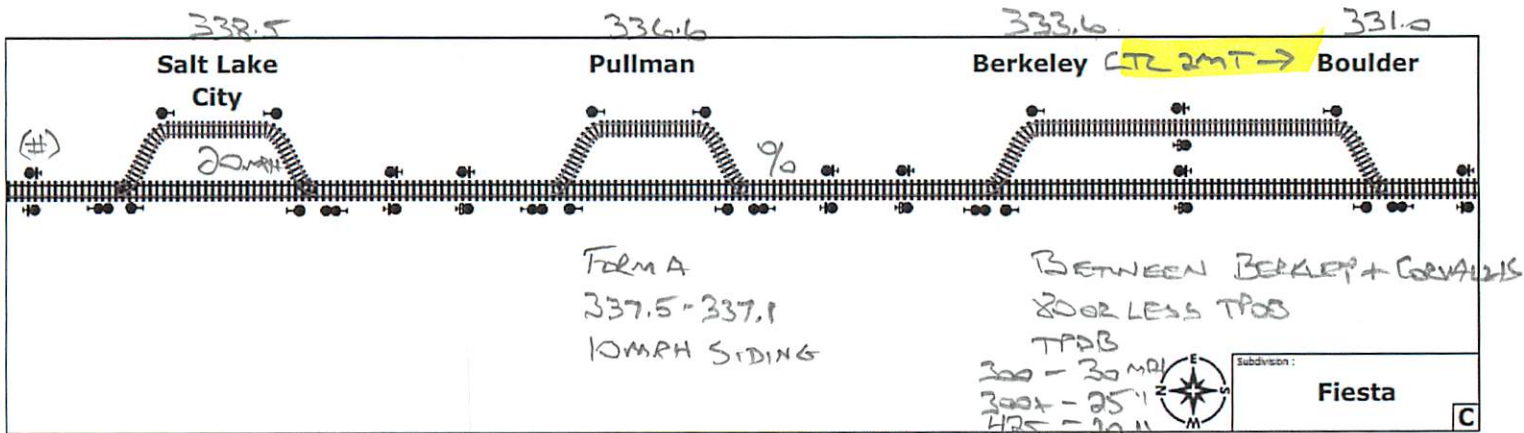
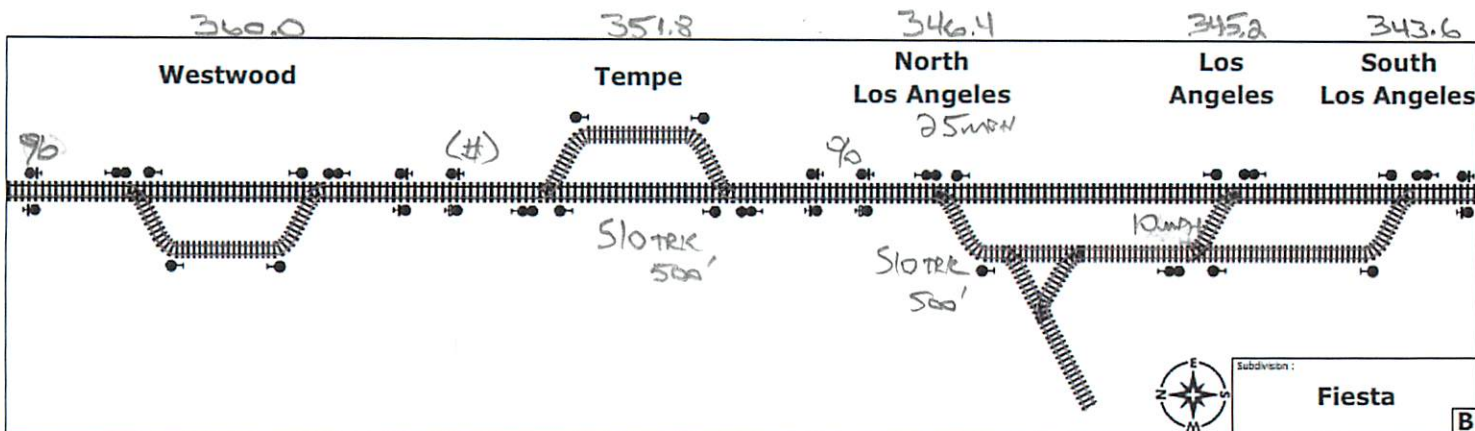
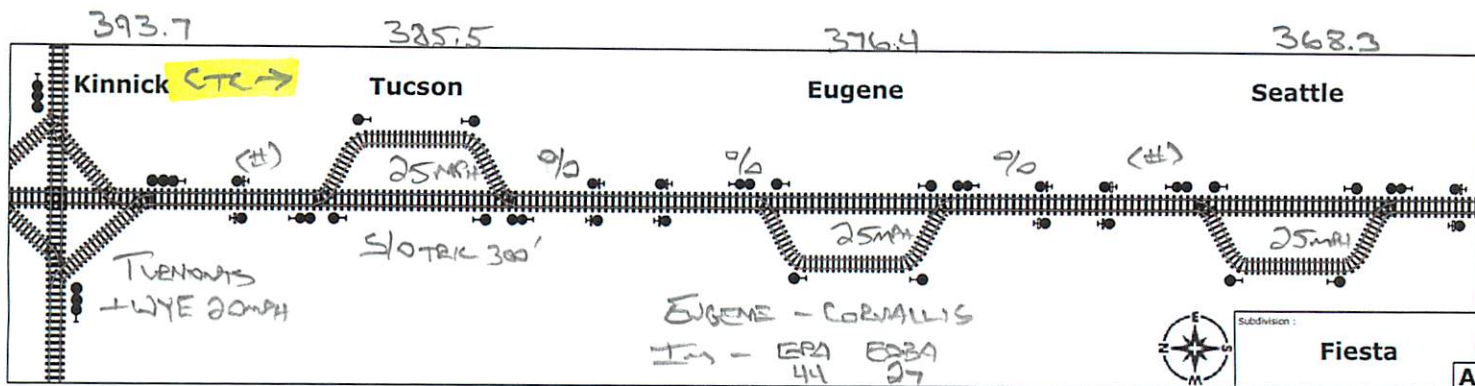
380.9 - 380.4 - 40

370.1 - 369.7 - 50

368.4 - 368.0 - 00

05/07/20

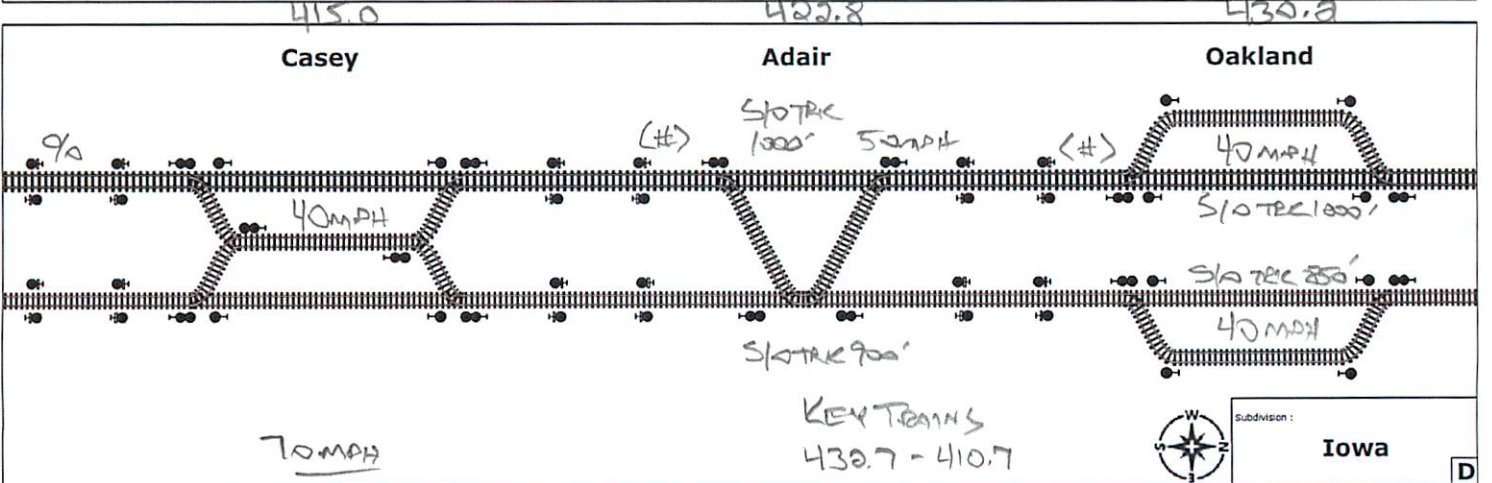
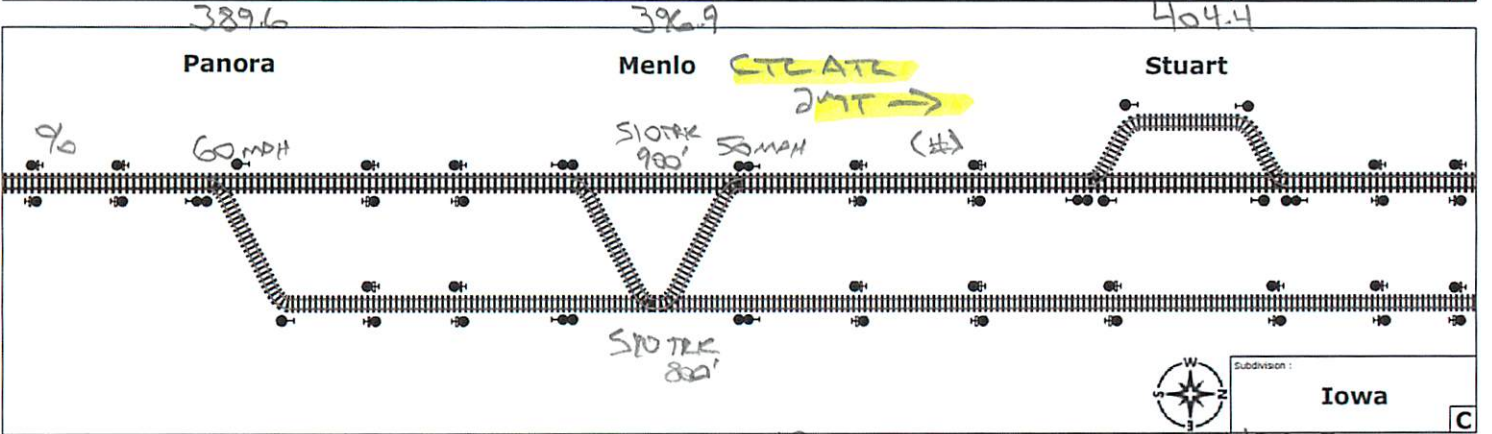
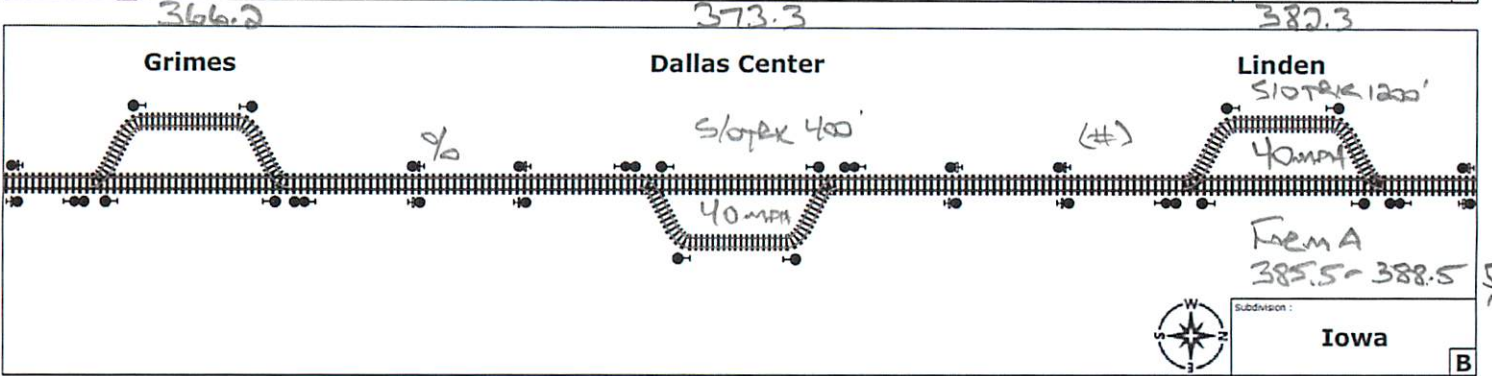
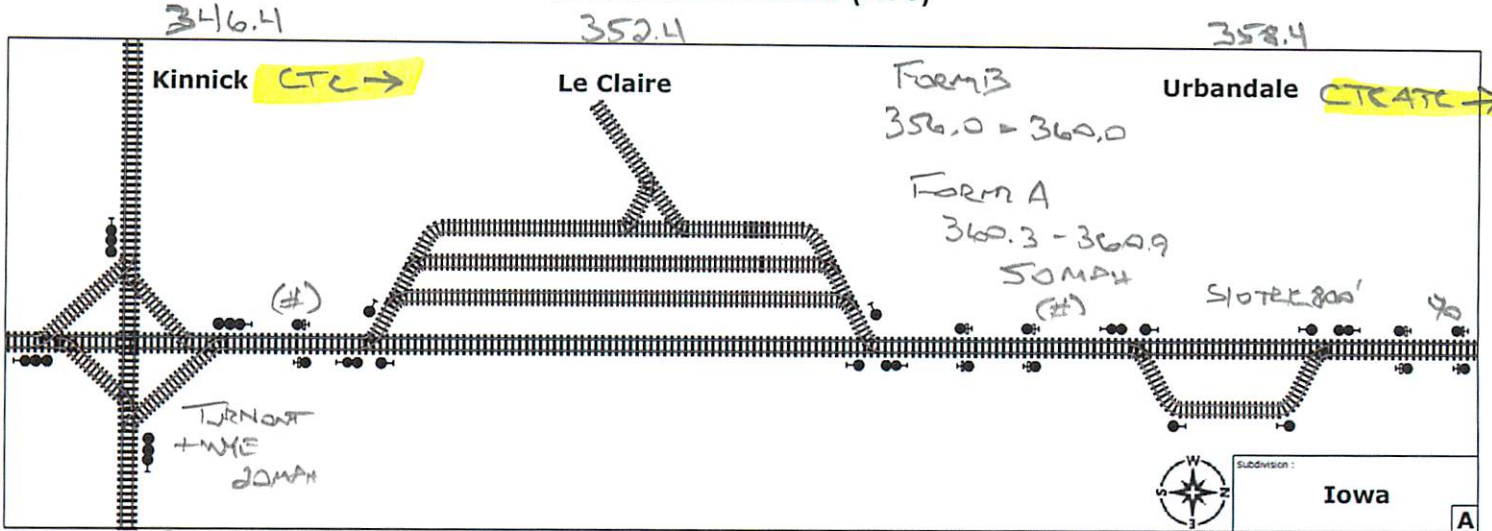
FIESTA SUBDIVISION (GRADE)



05/07/20

390.1 - 388.5 - 55	355.5 - 347.4 - 30
388.5 - 387.9 - 50	347.4 - 346.0 - 35
387.9 - 379.1 - 40	346.0 - 337.9 - 40
373.8 - 363.7 - 40	337.9 - 333.5 - 35
363.7 - 355.5 - 35	333.5 - 321.4 - 30

IOWA SUBDIVISION (ATC)



420.7 - 418.6 - 55

380.9 - 380.4 - 40

372.1 - 369.7 - 50

368.4 - 368.0 - 50

291.4 - 291.2 - 50

05/07/20

31.8.7: Locomotive Fuel Conservation and TPA Compliance

Step 1. Determine the minimum total EPA needed for route using the following formula:

Train Tonnage ÷ TPA Limit (as indicated on train list) = Total EPA needed.

Step 2. Determine the minimum number of **locomotive(s)** which are needed to handle train tonnage without exceeding the train TPA limit.

Step 3. Verify correct EPA is online for route by recalculating TPA:

Total Train Tonnage (including isolated/shutdown locomotives) ÷ Total EPA = TPA

Step 4. Confirm **TRAIN TPA** does not exceed **ROUTE TPA**.

Step 5. Start or shutdown / isolate locomotives as required.

Formulas

TPA = Tons / EPA (include Isolated / shutdown locomotives for TONS)

EPA = Tons / TPA (weight of cars only for TONS)

TONS = TPA X EPA

- 1) Tons that can be handled by all online locomotives without exceeding ROUTE TPA (Use **Route TPA**)
- 2) Tonnage pulled by a lead or cut-in helper. ½ of this number is tonnage pulled behind cut-in helper (Use **Train TPA**) This number must be less than **coupler limit** for the territory.

TPDBA = Tons / EDDBA (include Isolated / shutdown locomotives for TONS)

