

MINNESOTA DEPARTMENT OF TRANSPORTATION
RAMSEY COUNTY REGIONAL RAILROAD AUTHORITY

RAILROAD LAYOUT APPROVAL SET
PRELIMINARY FEB. 7, 2012 - SUBJECT TO FINAL DESIGN



MINN. PROJECT NO.s PNRS-TGR M238(001)
UDMT 6211(122)

GOVERNING SPECIFICATIONS
THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND ARCHITECTURAL-ENGINEERING MANUAL SHALL GOVERN. ALL TRAFFIC CONTROL SIGNING AND DEVICES SHALL CONFORM TO THE MN MUTCD, INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Gregory S. Brown
GREGORY S. BROWN
DATE: MAR. 18, 2011 MN LIC. NO. 22814



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James E. Hoschka
JAMES HOSCHKA
DATE: MAR. 18, 2011 MN LIC. NO. 41266

CONSTRUCTION PLAN FOR UNION DEPOT PASSENGER RAIL SERVICE TRACK IMPROVEMENTS TO ACCOMODATE AMTRAK TRAINS 7 AND 8

STATE PROJ. NO.S 091-595-023, 091-595-24 & 091-595-025

RAILROAD LAYOUT APPROVAL SET

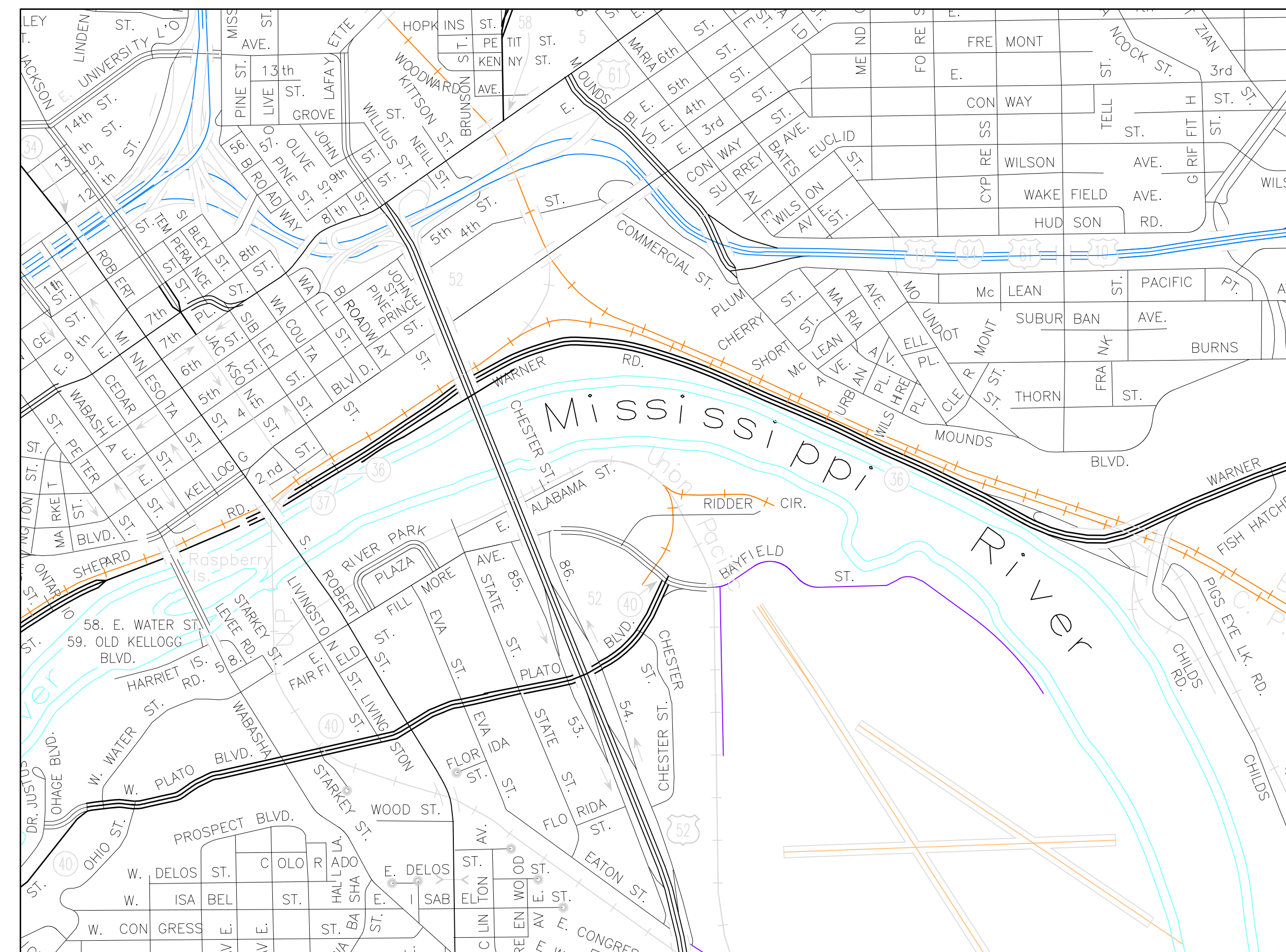
- 1 COVER SHEET
- 2 KEY PLAN
- 3-18 PROPOSED TRACK PLANS
- 19-20 RAILROAD ACCESS PLANS

NOTES:

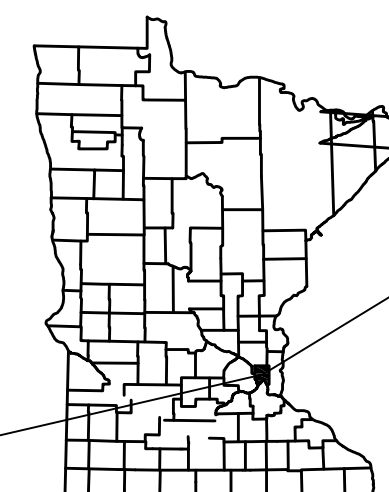
1. BNSF - SHEET 10 ONLY

2. AMTRAK DISCLAIMER:

Amtrak has reviewed these plans and no exceptions are presently taken with regard to the project's impact on Amtrak's operations. Amtrak has not reviewed the design details or calculations for structural integrity or engineering accuracy. Amtrak accepts no responsibility for errors or omissions with regard to the design of the project or its completion.



PROJECT LOCATION
STATE: MINNESOTA
COUNTY: RAMSEY



SCALE IN FEET



LOCATION MAP
PLAN SHEET SCALES ARE BASED ON 30"x42" SHEET SIZE

INVOLVED RAIL CARRIERS

NAME GARY BATES
TITLE Director Project Design
SIGNATURE *Gary Bates*
REPRESENTING UNION PACIFIC CORPORATION

NAME Mark T. Gjevre
TITLE Project Engineer
SIGNATURE *Mark T. Gjevre*
REPRESENTING BNSF RAILWAY CO. (SEE NOTE)

NAME Curt Whelan
TITLE Director Project Services
SIGNATURE *Curt Whelan*
REPRESENTING CANADIAN PACIFIC RAILWAY CO.

NAME Michael W. Franke
TITLE Assistant Vice President
SIGNATURE *Michael W. Franke 2/9/12*
REPRESENTING AMTRAK NATIONAL RAILROAD PASSENGER CORPORATION (SEE NOTE)

FEDERAL RAILROAD ADMINISTRATION

NAME _____
TITLE _____
SIGNATURE _____
REPRESENTING FEDERAL RAILROAD ADMINISTRATION

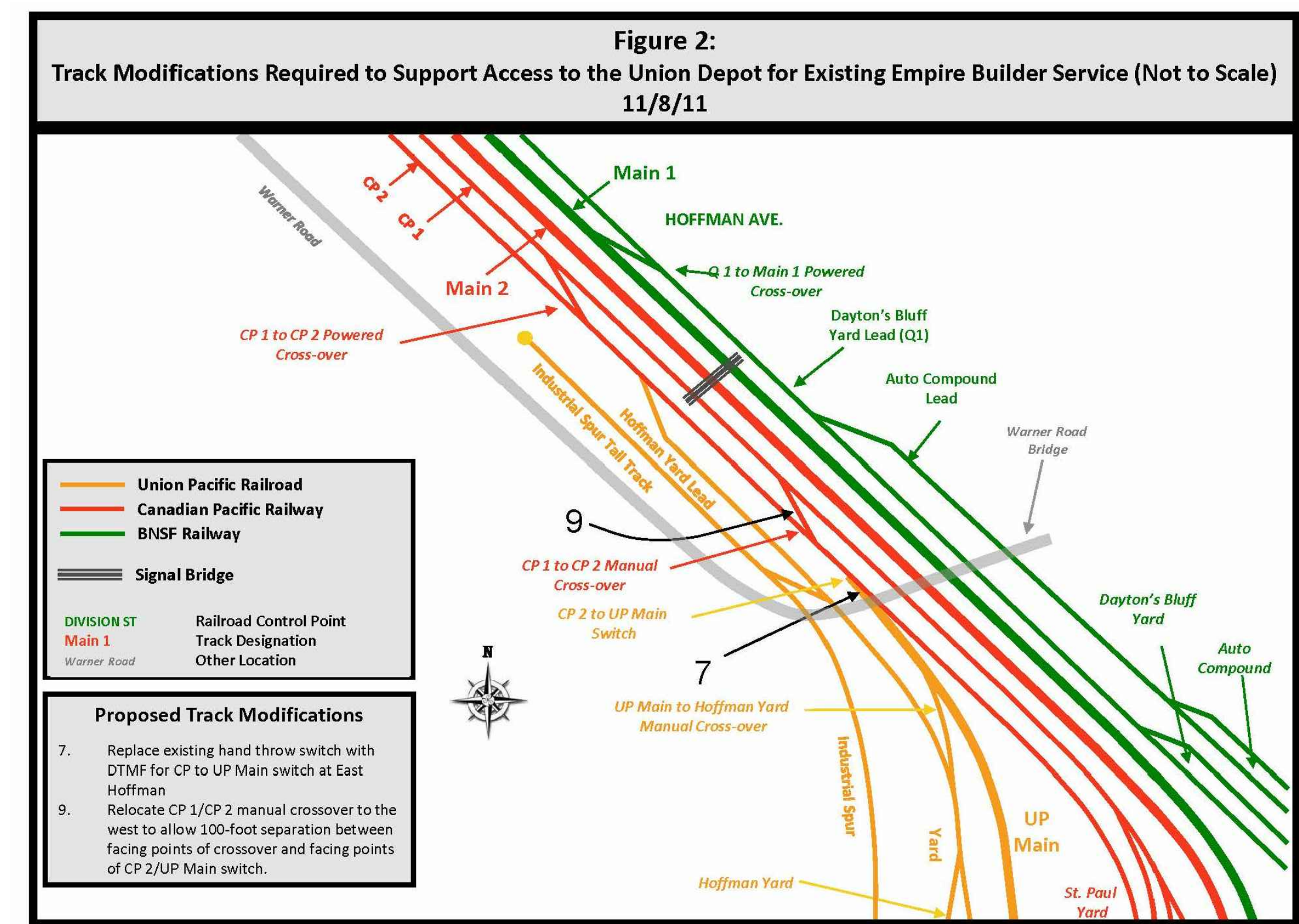
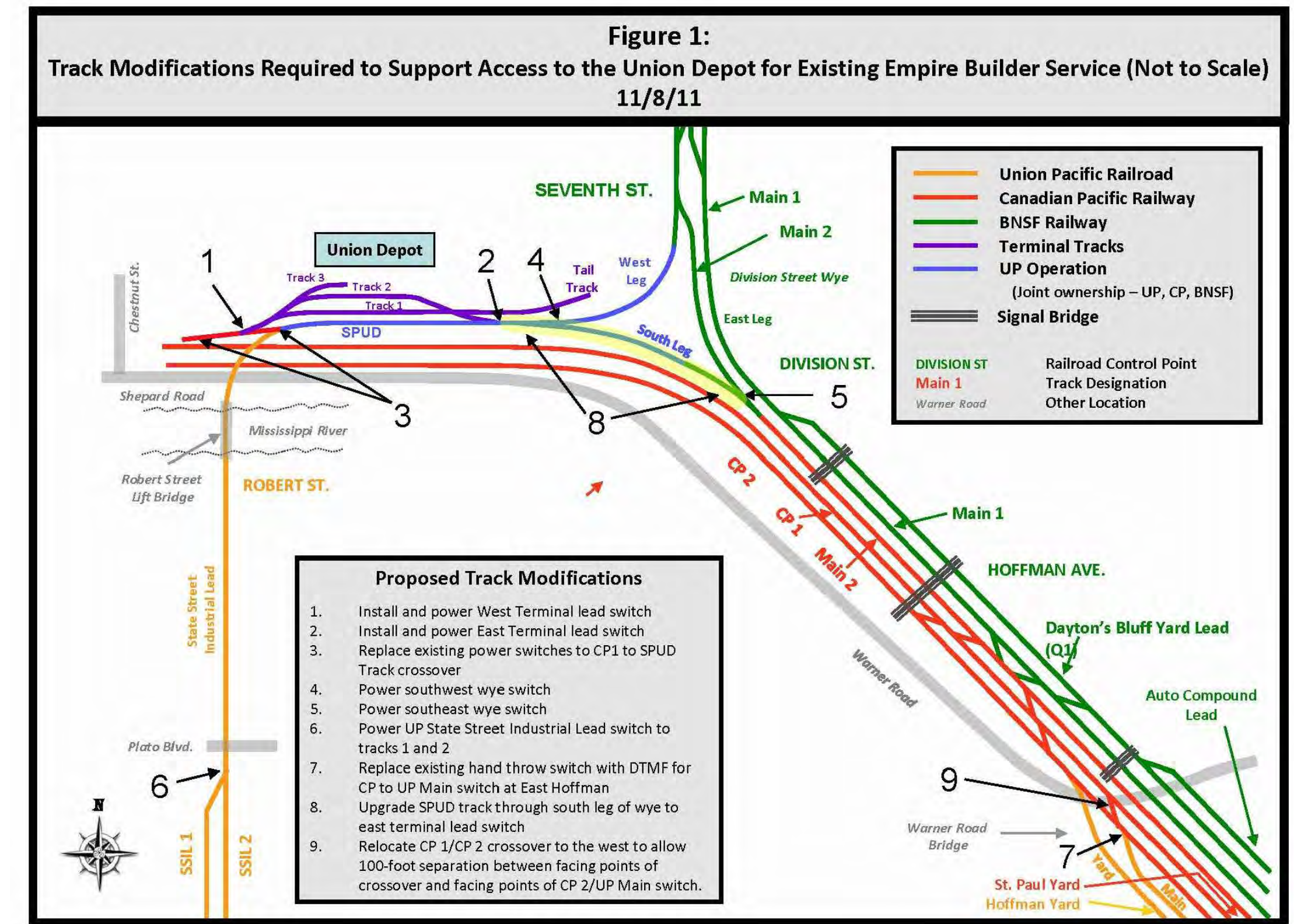
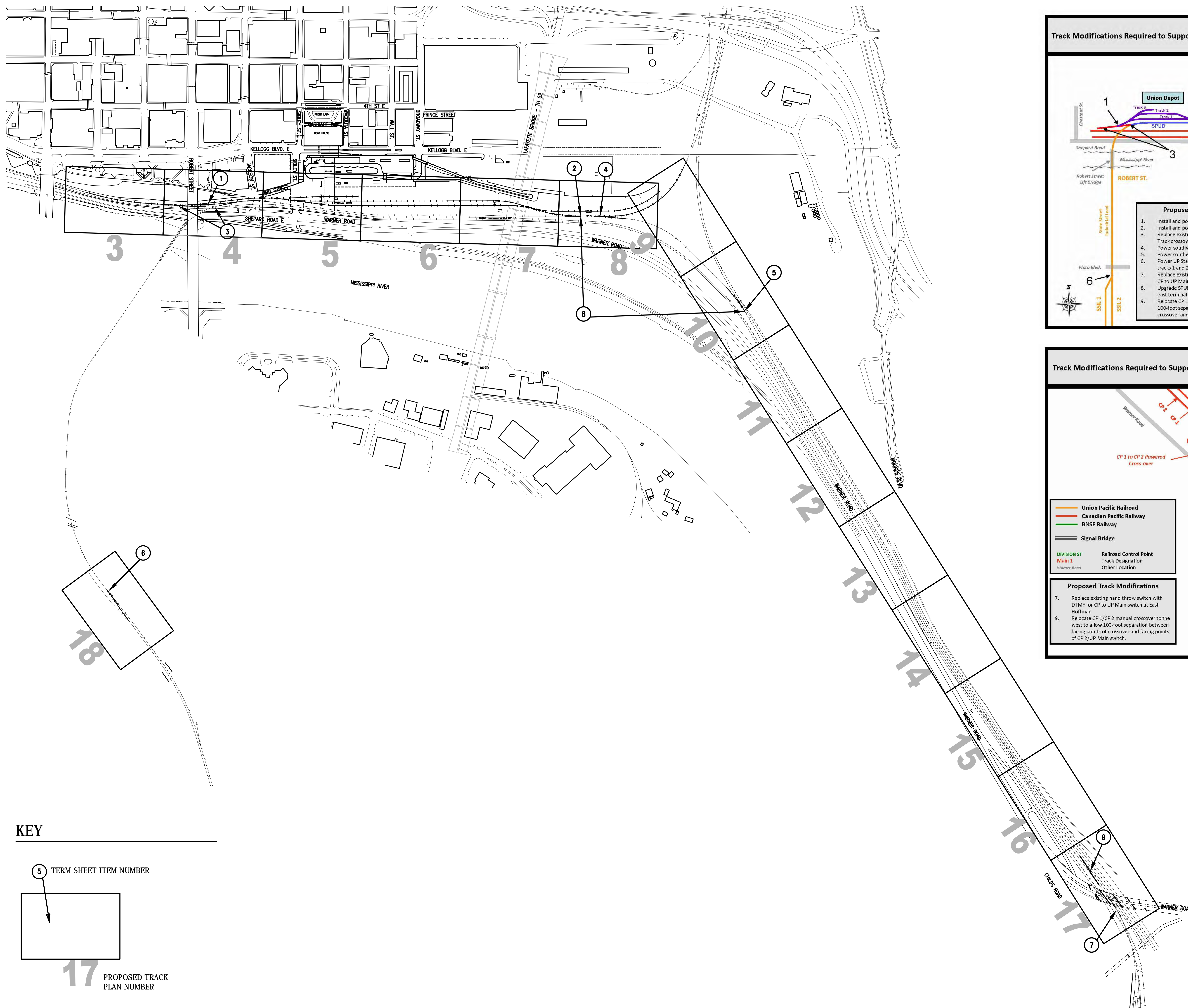
STATE OF MINNESOTA

NAME DAVID A. CHRISTIANSON
TITLE PROJECT MGR/MNSRP - OFFICE OF FREIGHT + COM'L VEH. OPNS.
SIGNATURE *David A. Christianson 4/11/2012*
REPRESENTING STATE OF MINNESOTA

RAMSEY COUNTY REGIONAL RAILROAD AUTHORITY

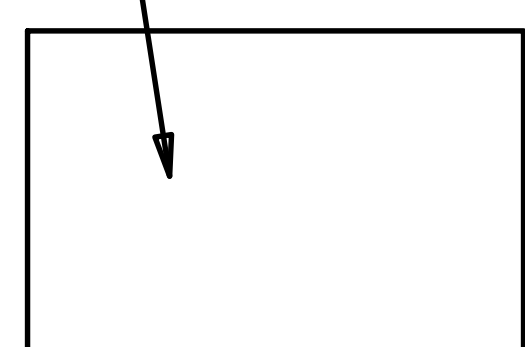
NAME Timothy A. Mayasich
TITLE Director
SIGNATURE *Timothy A. Mayasich*
REPRESENTING RAMSEY COUNTY REGIONAL RAILROAD AUTHORITY

SP. NO.S 091-595-023 091-595-024 091-595-025
RAILROAD LAYOUT APPROVAL SET
COVER SHEET
SHEET NO. 1

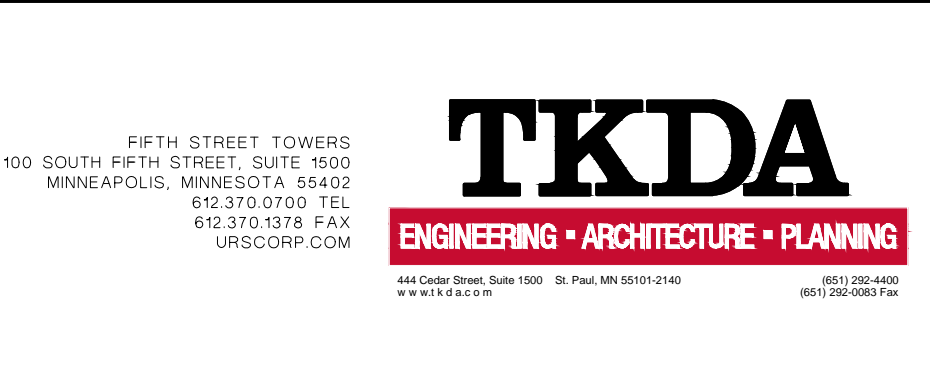
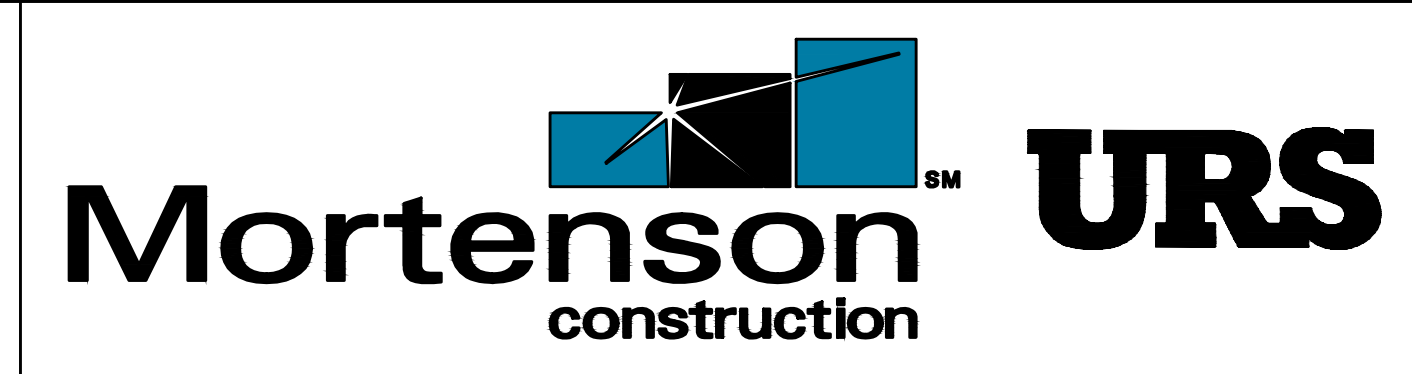


KEY

5 TERM SHEET ITEM NUMBER



17 PROPOSED TRACK PLAN NUMBER



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REVISION HISTORY - THIS SHEET
REISSUED DEC 13, 2011
REISSUED JAN 23, 2012

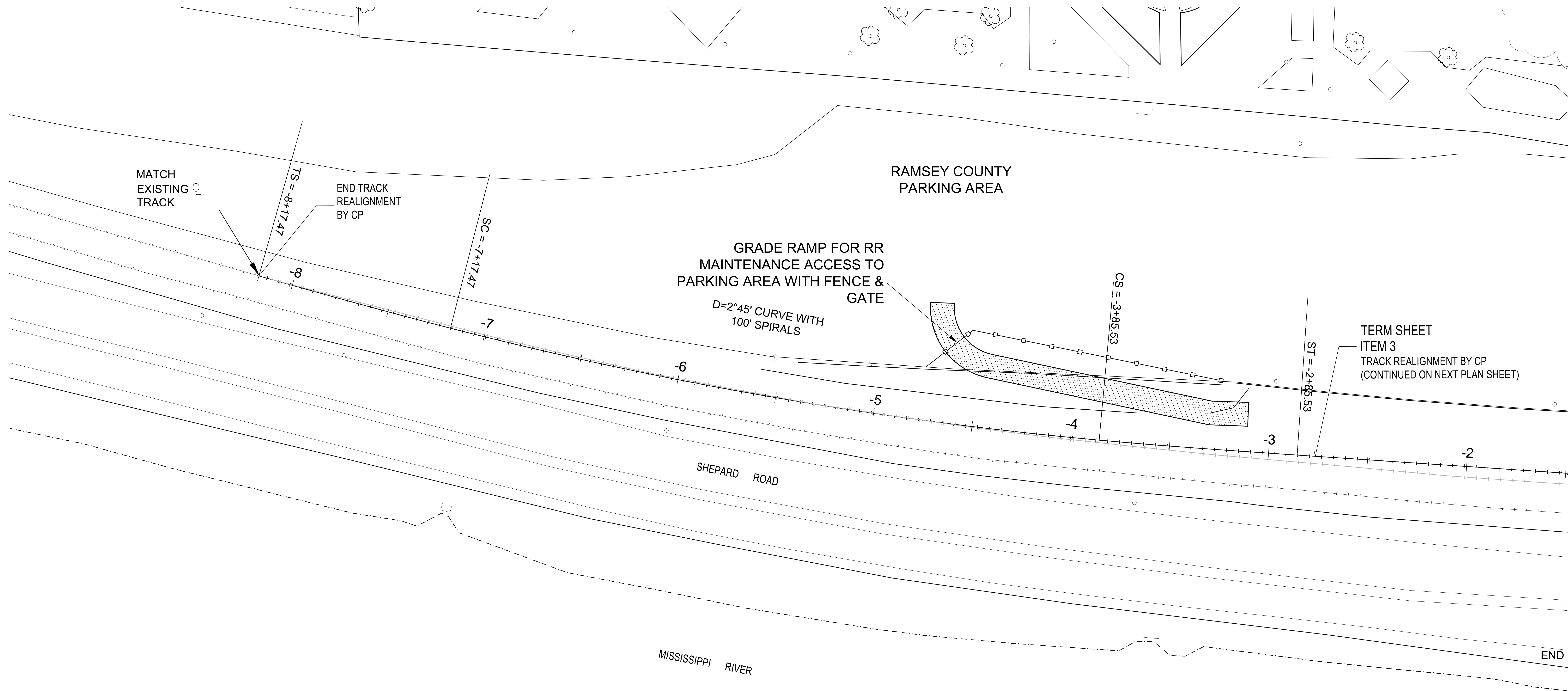
TRACK TERM SHEETS

COMM. NO. 31810856
SCALE 1" = 300'-0" FS
DATE APR. 18, 2011
DRAWN IBURELL

TERM SHEET ITEMS KEY PLAN

SP NO. 091-595-023
SP NO. 091-595-024
SP NO. 091-595-025

2



MATCH EXISTING TRACK

END TRACK REALIGNMENT BY CP

RAMSEY COUNTY PARKING AREA

GRADE RAMP FOR RR MAINTENANCE ACCESS TO PARKING AREA WITH FENCE & GATE

D=2°45' CURVE WITH 100' SPIRALS

TERM SHEET ITEM 3 TRACK REALIGNMENT BY CP (CONTINUED ON NEXT PLAN SHEET)

SHEPARD ROAD

MISSISSIPPI RIVER

END

UNION DEPOT
ST. PAUL, MINNESOTA

Ramsey County Regional Railroad Authority

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100 SOUTH BIRTH STREET SUITE 400
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REISSUED JAN 23, 2012

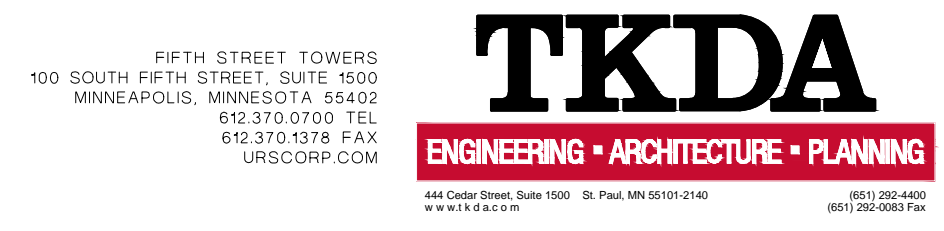
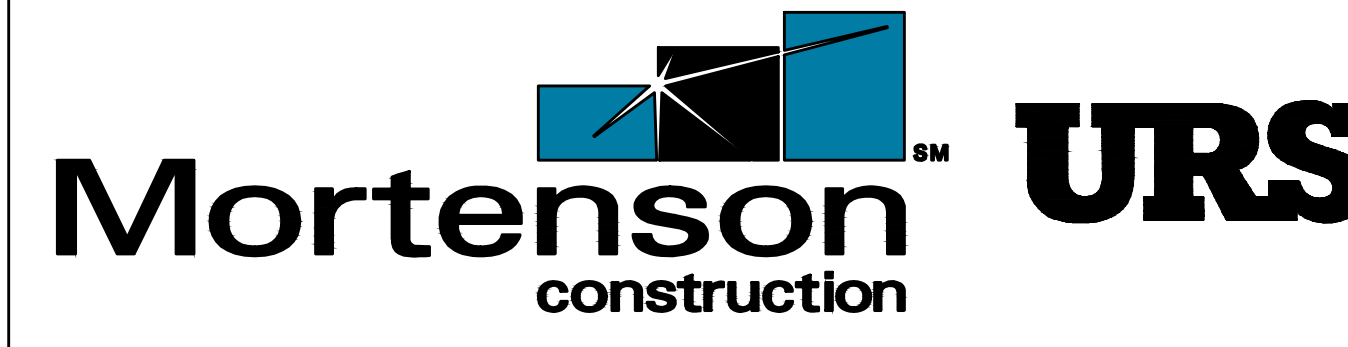
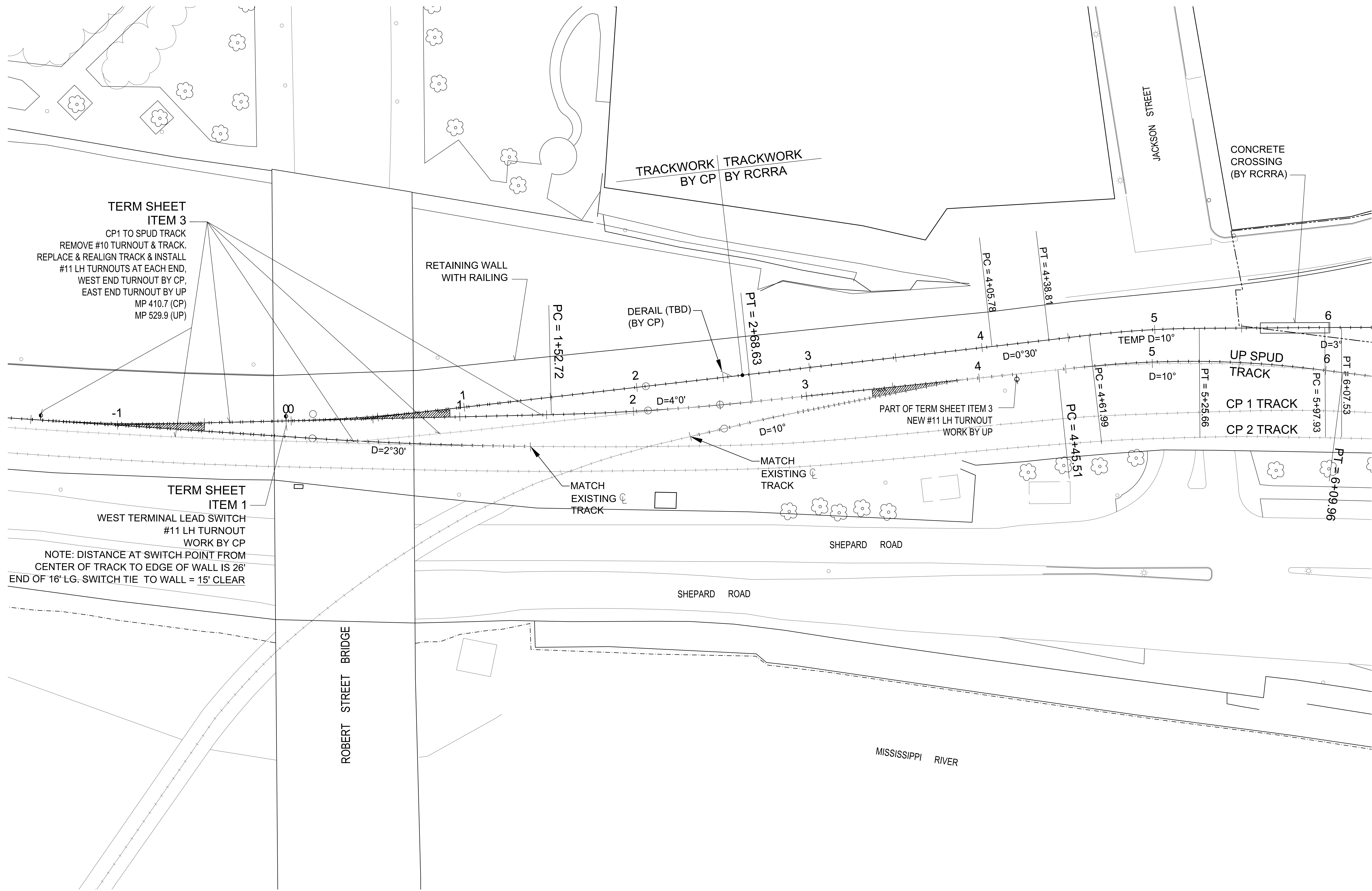
TRACK MODIFICATIONS

COMM. NO. 31810856
SCALE 1" = 50'-0" FS
DATE AUG 18, 2011
DRAWN IBURRELL

PROPOSED TRACK PLAN

SP NO. 091-595-023
SP NO. 091-595-024
SP NO. 091-595-025

3



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REISSUED JAN 26, 2012	
REISSUED FEB 7, 2012	

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DATE AUG 18, 2011

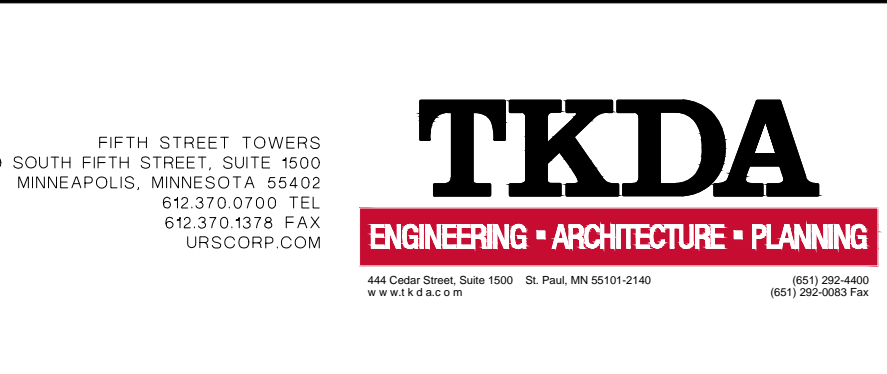
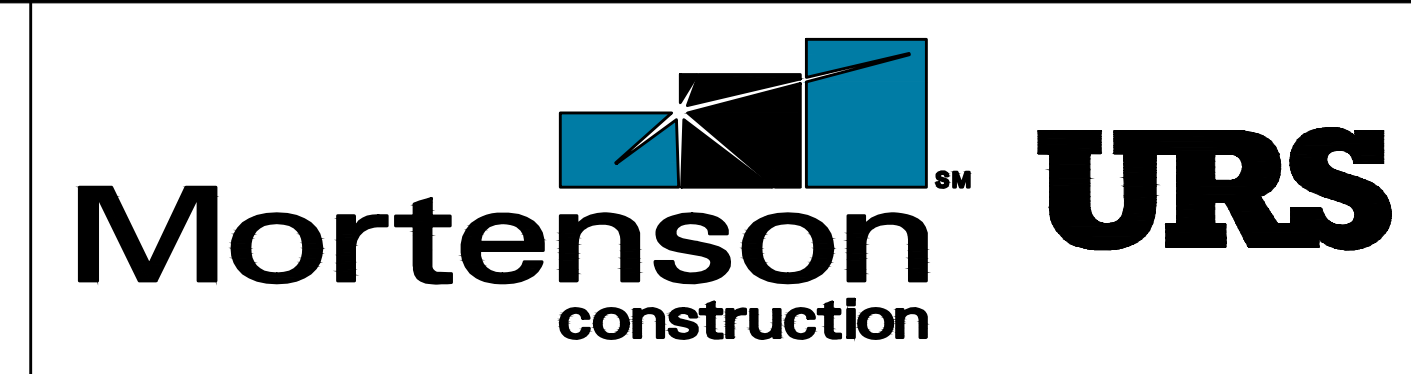
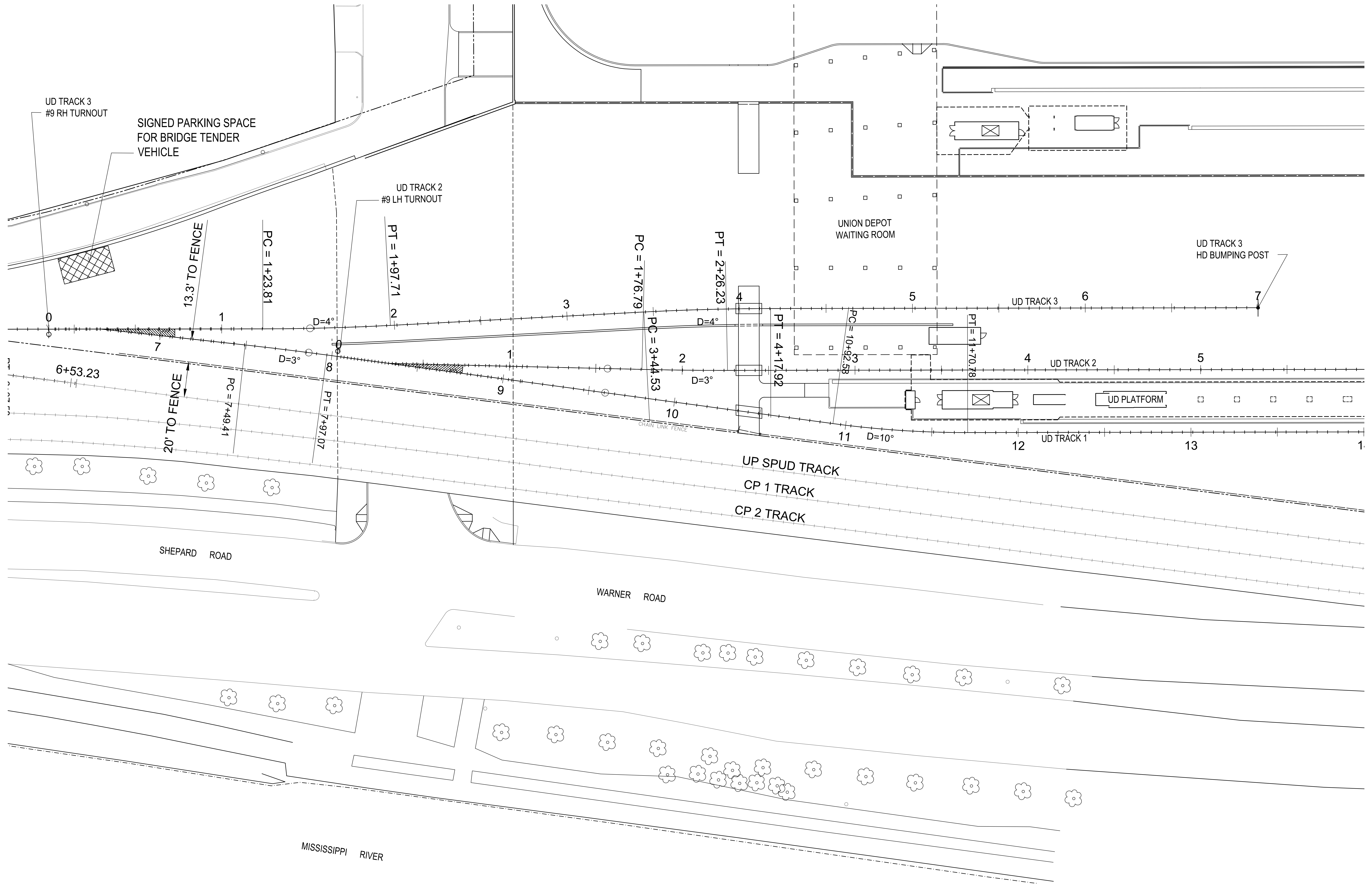
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4

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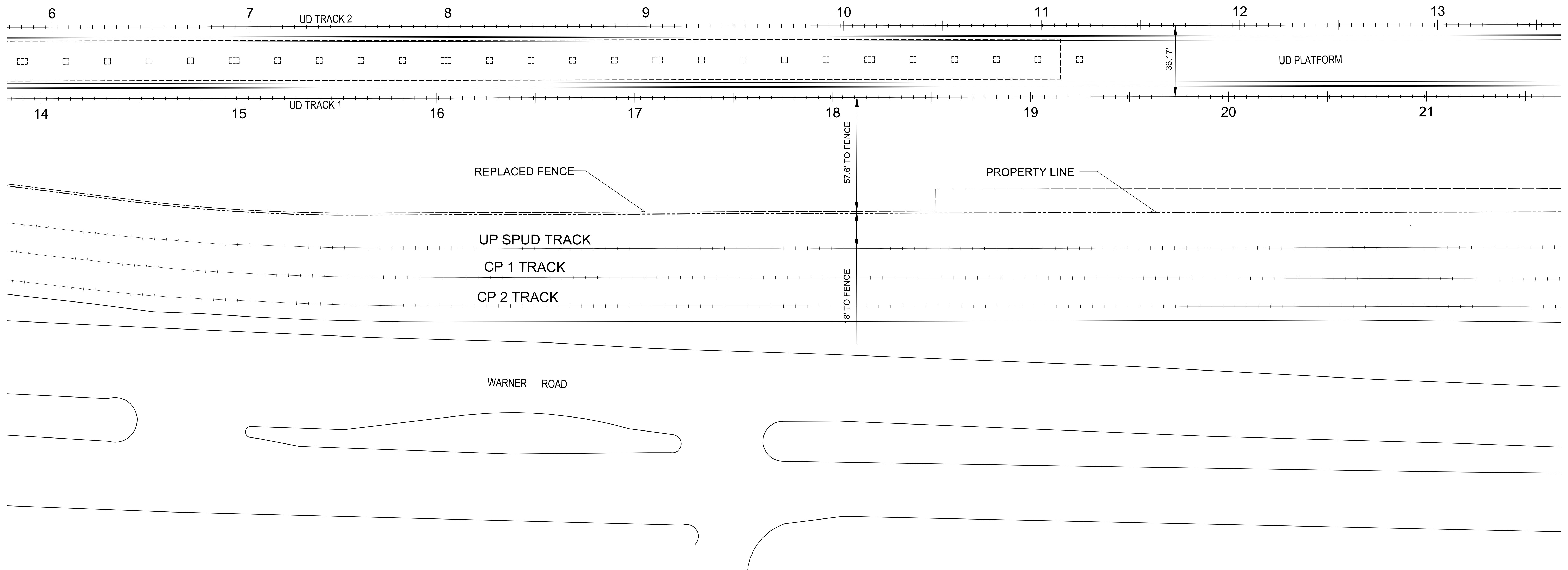
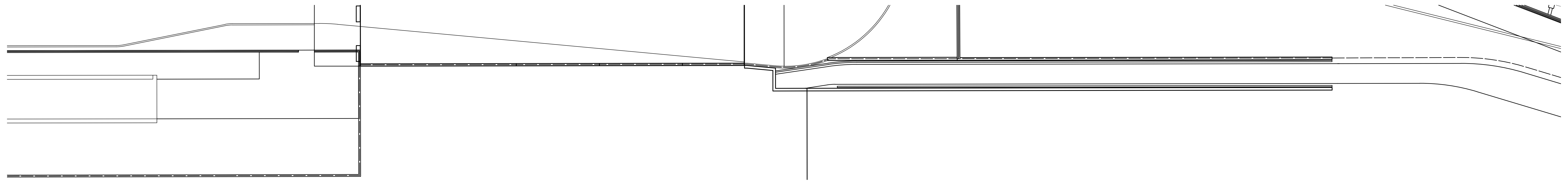
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TRACK MODIFICATIONS	
COMM. NO.	31810856
SCALE	1" = 50'-0" FS
DATE	AUG 18, 2011
DRAWN	IBURRELL

PROPOSED TRACK PLAN

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SP NO. 091-595-024
SP NO. 091-595-025

5



UNION DEPOT
ST. PAUL, MINNESOTA
Ramsey County Regional Railroad Authority



FIFTH STREET TOWERS
100 SOUTH 5TH STREET, SUITE 400
MINNEAPOLIS, MINNESOTA 55402
612.373.3133 TEL
612.373.3178 FAX
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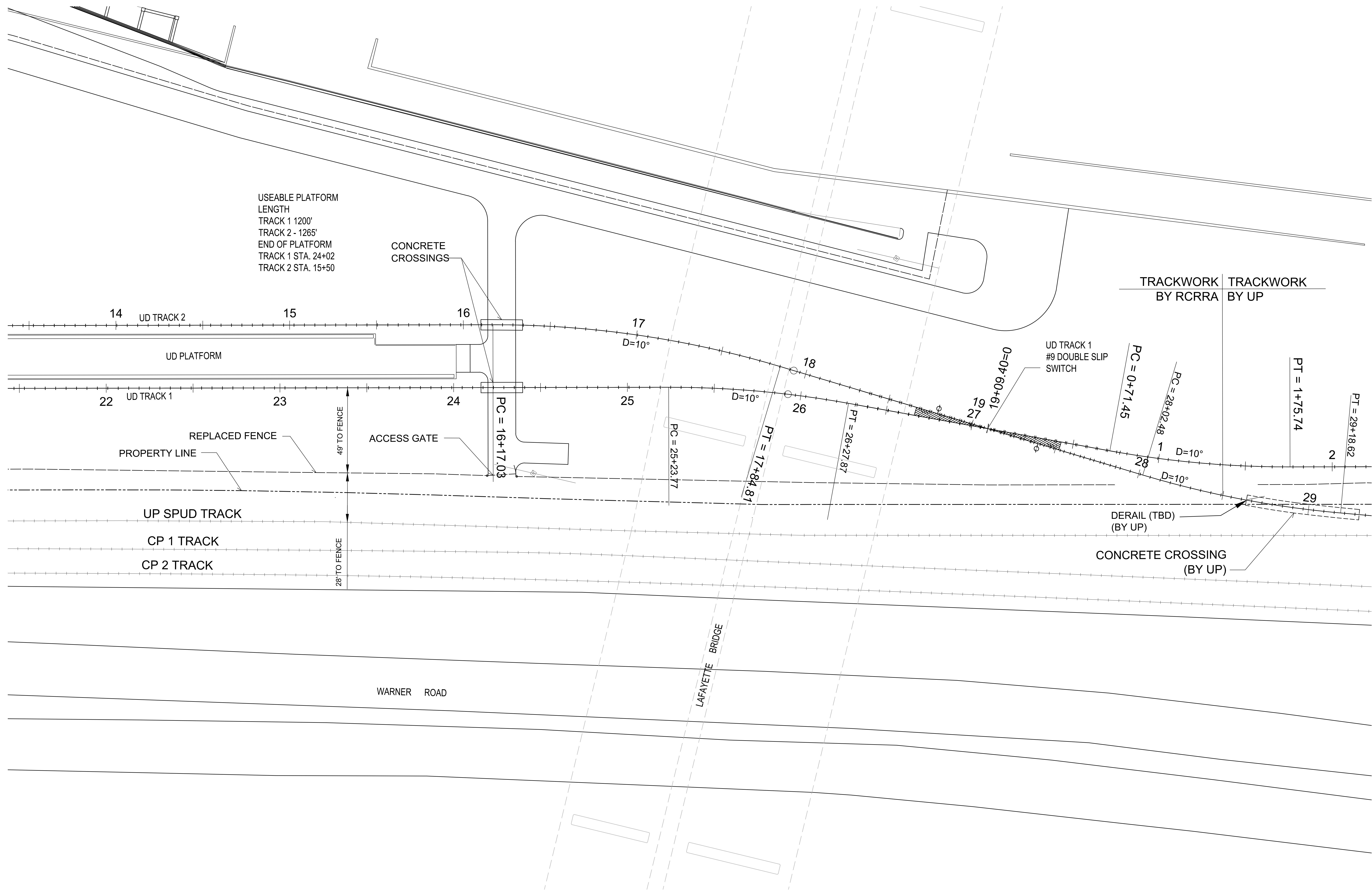
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6



USEABLE PLATFORM
LENGTH
TRACK 1 1200'
TRACK 2 - 1265'
END OF PLATFORM
TRACK 1 STA. 24+02
TRACK 2 STA. 15+50

TRACKWORK BY RCRRA | TRACKWORK BY UP

14 UD TRACK 2

15

16

17 D=10°

18

25 D=10°

26

19

27

PC = 0+71.45

PC = 28+02.48

PT = 1+75.74

PT = 29+18.62

22 UD TRACK 1

23

24

25

1 D=10°

28 D=10°

29

REPLACED FENCE
PROPERTY LINE

49' TO FENCE

ACCESS GATE

PC = 16+17.03

PC = 25+23.77

PT = 17+84.81

PT = 26+27.87

UD TRACK 1
#9 DOUBLE SLIP
SWITCH

DERAIL (TBD)
(BY UP)

CONCRETE CROSSING
(BY UP)

UP SPUD TRACK

CP 1 TRACK

CP 2 TRACK

28' TO FENCE

WARNER ROAD

LAFAYETTE BRIDGE



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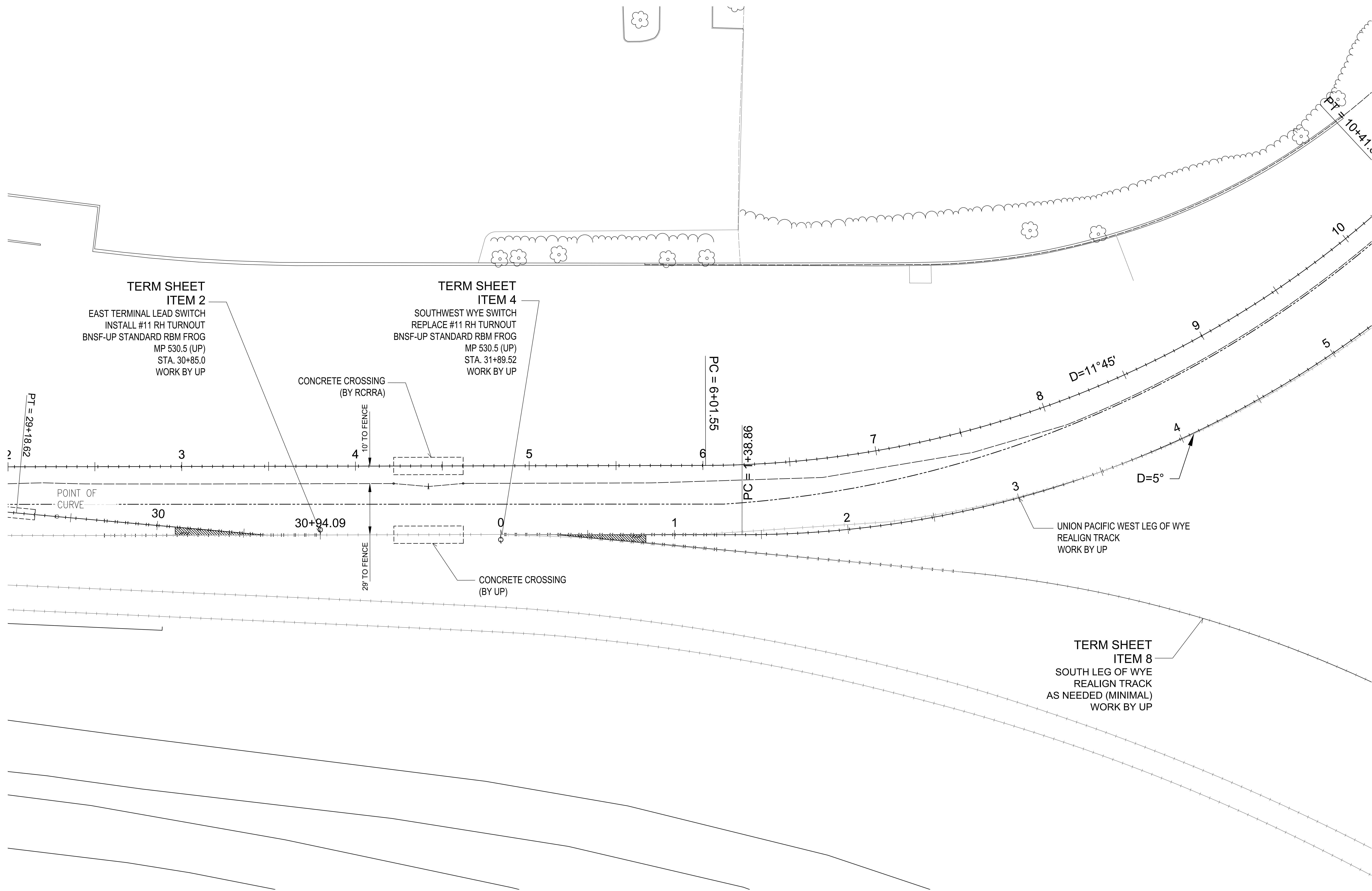


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PROPOSED TRACK PLAN	
SP NO. 091-595-023	7
SP NO. 091-595-024	
SP NO. 091-595-025	



**TERM SHEET
ITEM 2**
EAST TERMINAL LEAD SWITCH
INSTALL #11 RH TURNOUT
BNSF-UP STANDARD RBM FROG
MP 530.5 (UP)
STA. 30+85.0
WORK BY UP

**TERM SHEET
ITEM 4**
SOUTHWEST WYE SWITCH
REPLACE #11 RH TURNOUT
BNSF-UP STANDARD RBM FROG
MP 530.5 (UP)
STA. 31+89.52
WORK BY UP

UNION PACIFIC WEST LEG OF WYE
REALIGN TRACK
WORK BY UP

**TERM SHEET
ITEM 8**
SOUTH LEG OF WYE
REALIGN TRACK
AS NEEDED (MINIMAL)
WORK BY UP

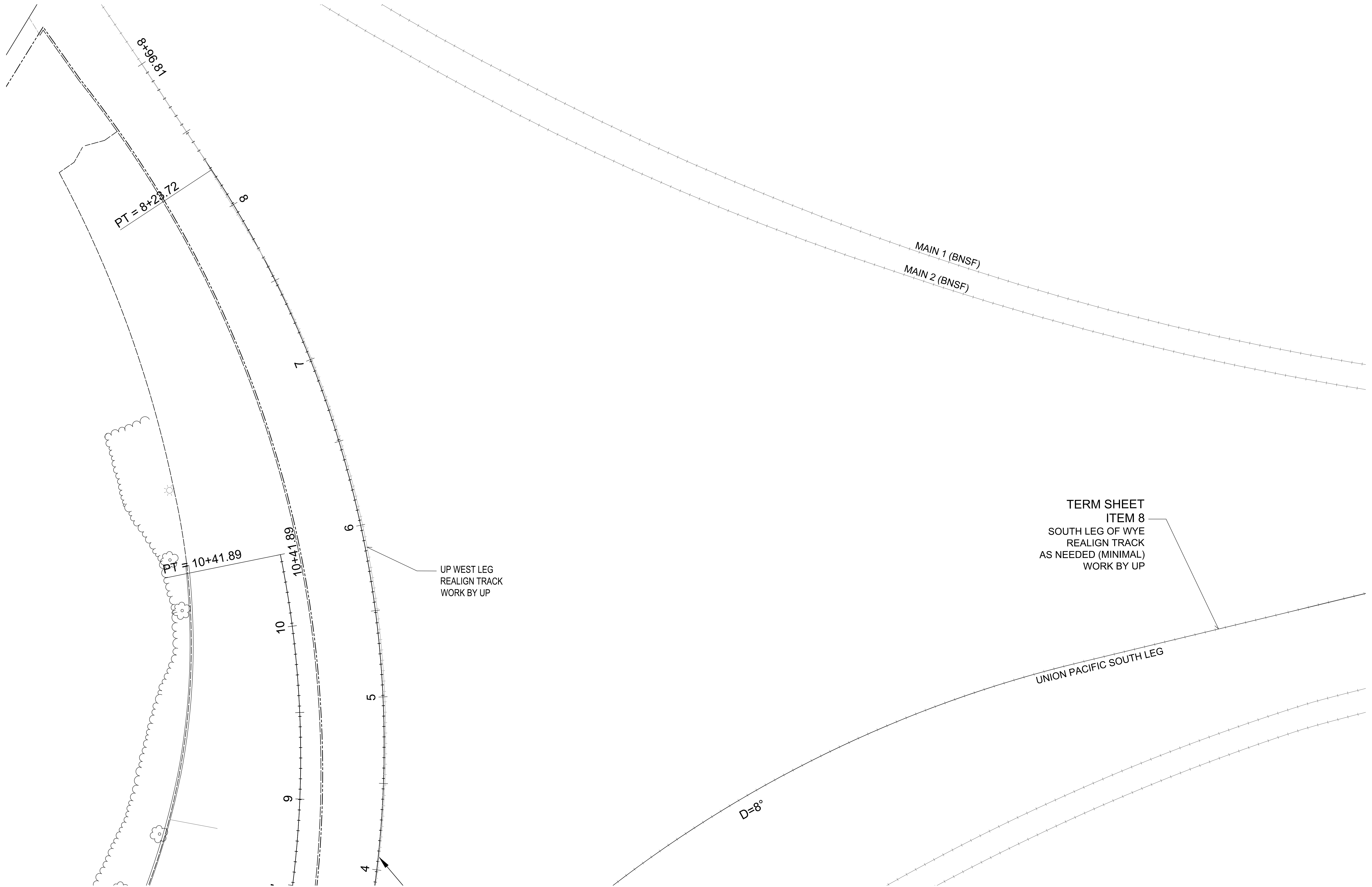


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SP NO. 091-595-023
SP NO. 091-595-024
SP NO. 091-595-025
8



TERM SHEET
ITEM 8
SOUTH LEG OF WYE
REALIGN TRACK
AS NEEDED (MINIMAL)
WORK BY UP

UP WEST LEG
REALIGN TRACK
WORK BY UP

UNION PACIFIC SOUTH LEG


D=8°




UNION DEPOT
ST. PAUL, MINNESOTA



Ramsey County Regional Railroad Authority



Mortenson
construction



URS

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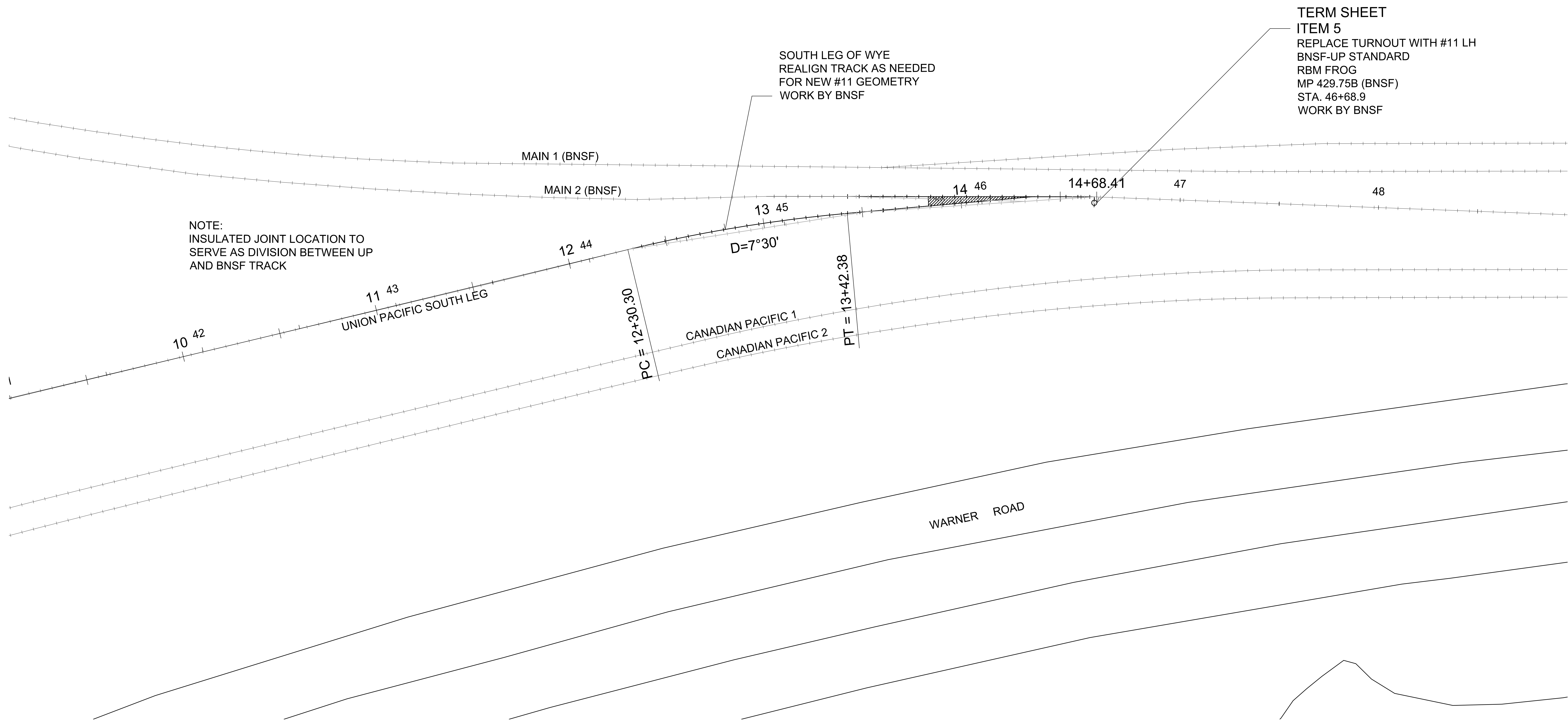
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PROPOSED TRACK PLAN

SP NO. 091-595-023	9
SP NO. 091-595-024	
SP NO. 091-595-025	



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 DRAWN IBURRELL

SP NO. 091-595-023
 SP NO. 091-595-024
 SP NO. 091-595-025

10

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BNSF - Q1 - DAYTON'S BLUFF YARD LEAD

MAIN 1 (BNSF)

49

50

51

52

53

54

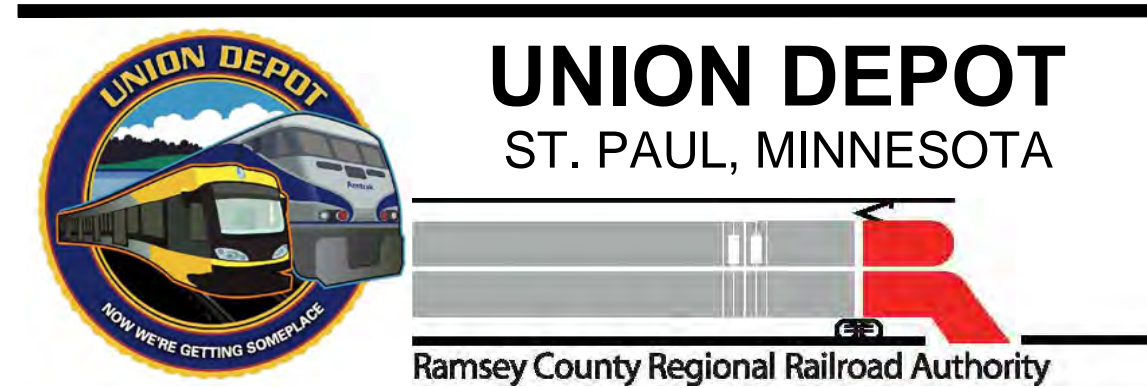
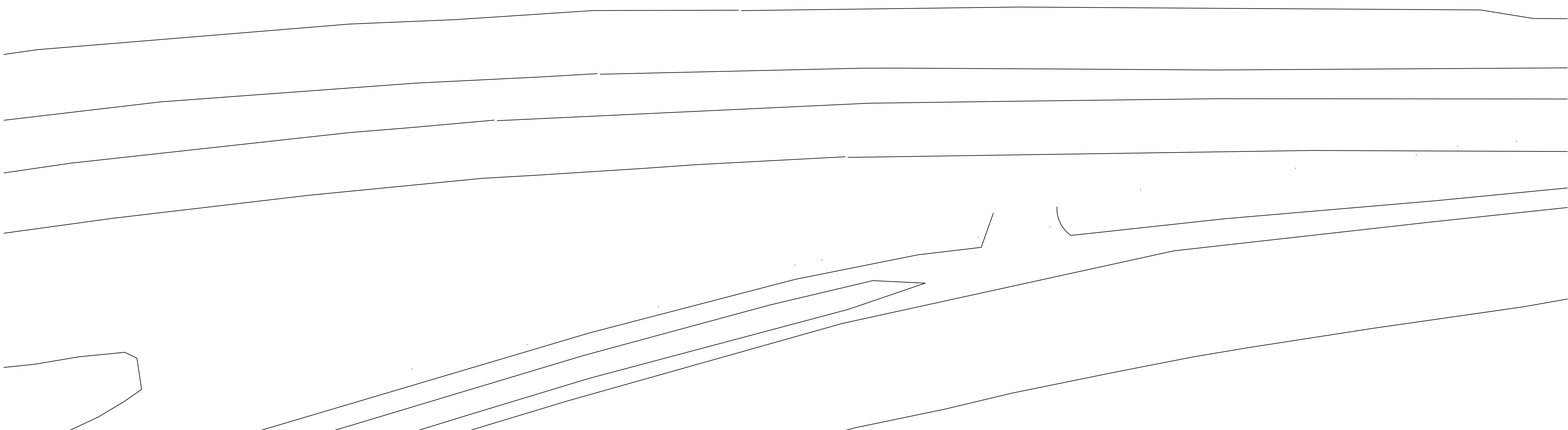
55

56

MAIN 2 (CP)

CANADIAN PACIFIC 1

CANADIAN PACIFIC 2



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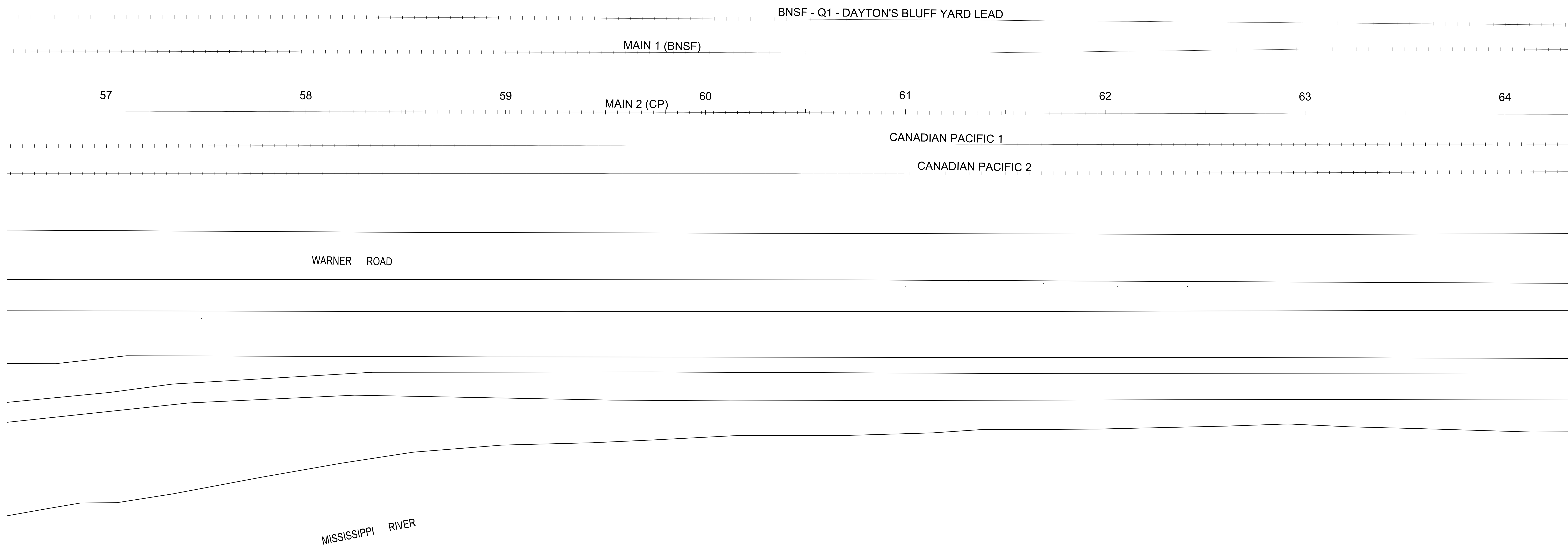
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SP NO. 091-595-024
SP NO. 091-595-025

11



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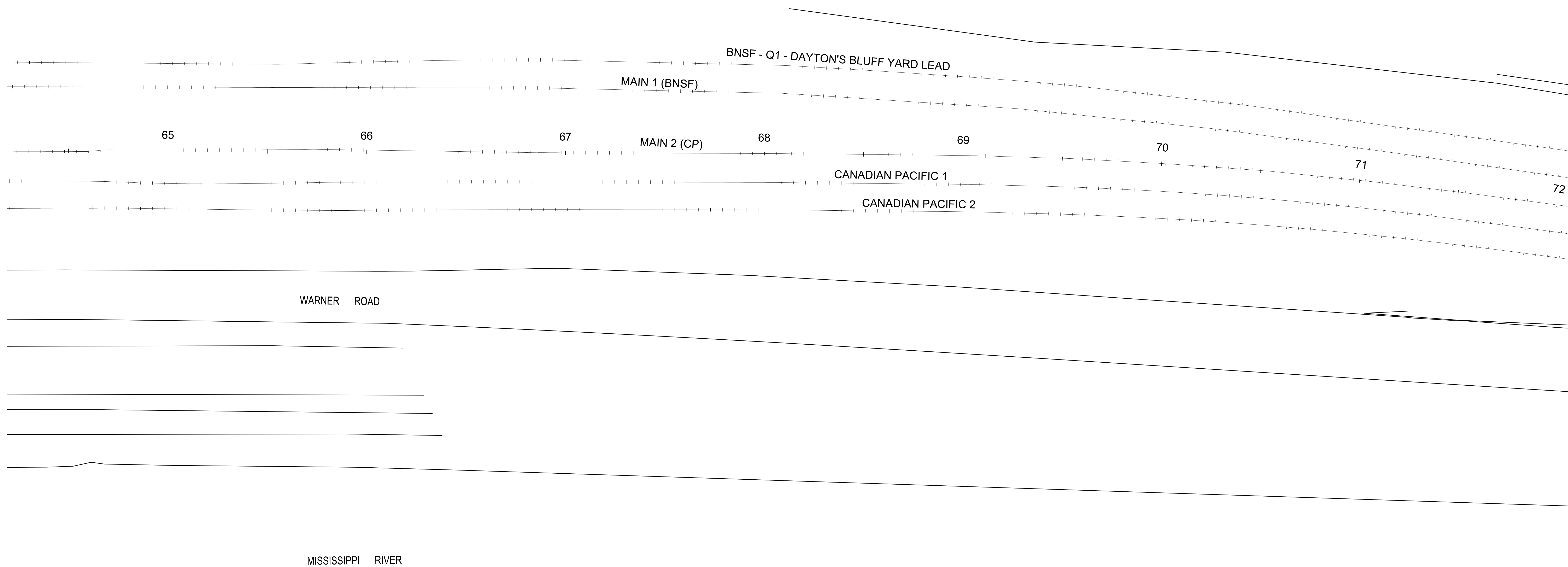
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12



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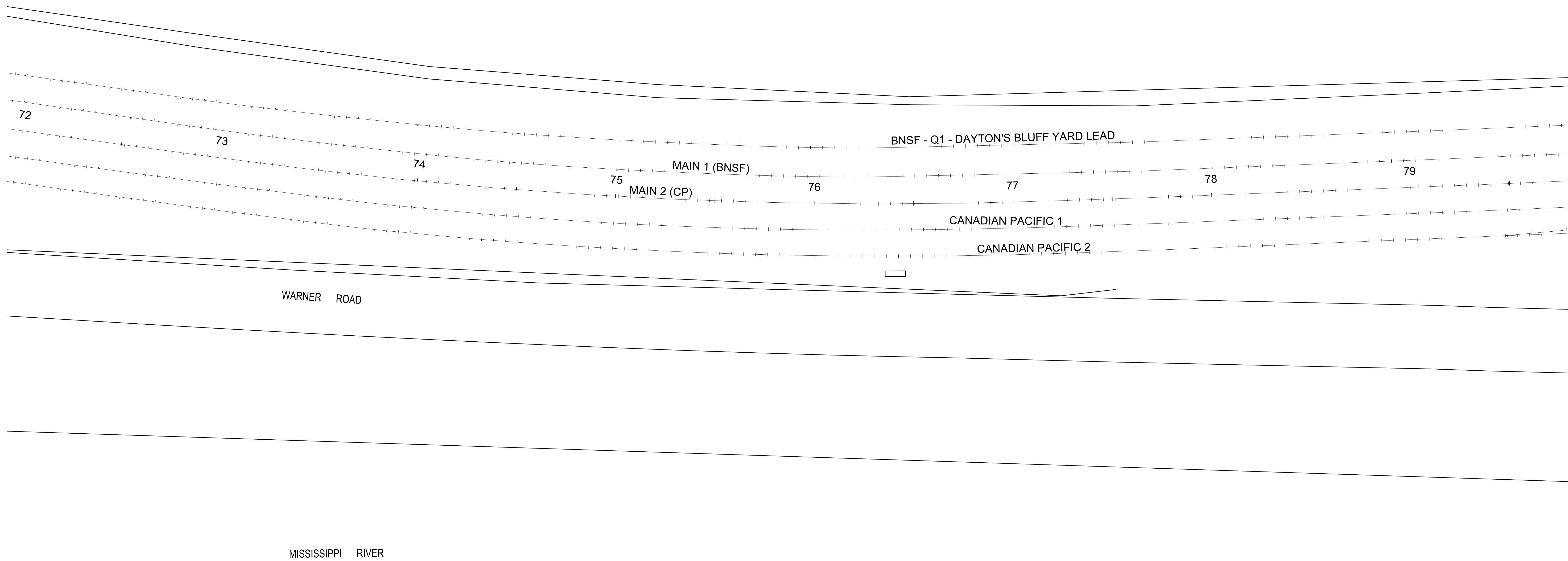
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SP NO. 091-595-024	
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UNION DEPOT
ST. PAUL, MINNESOTA

Ramsey County Regional Railroad Authority



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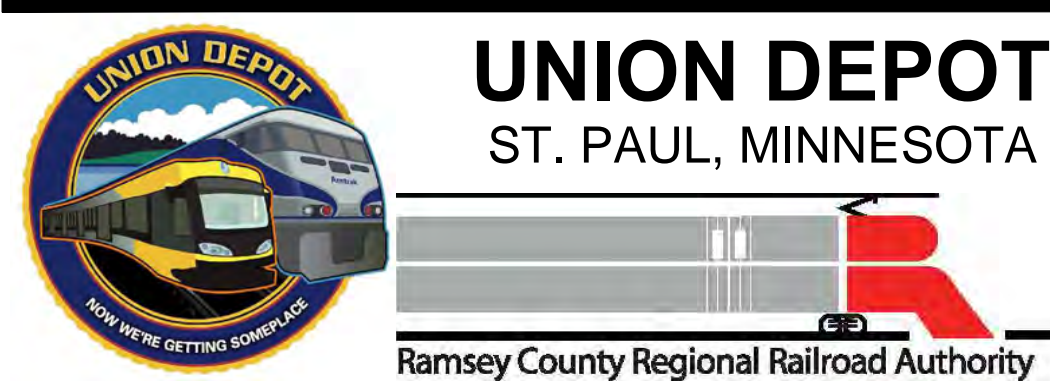
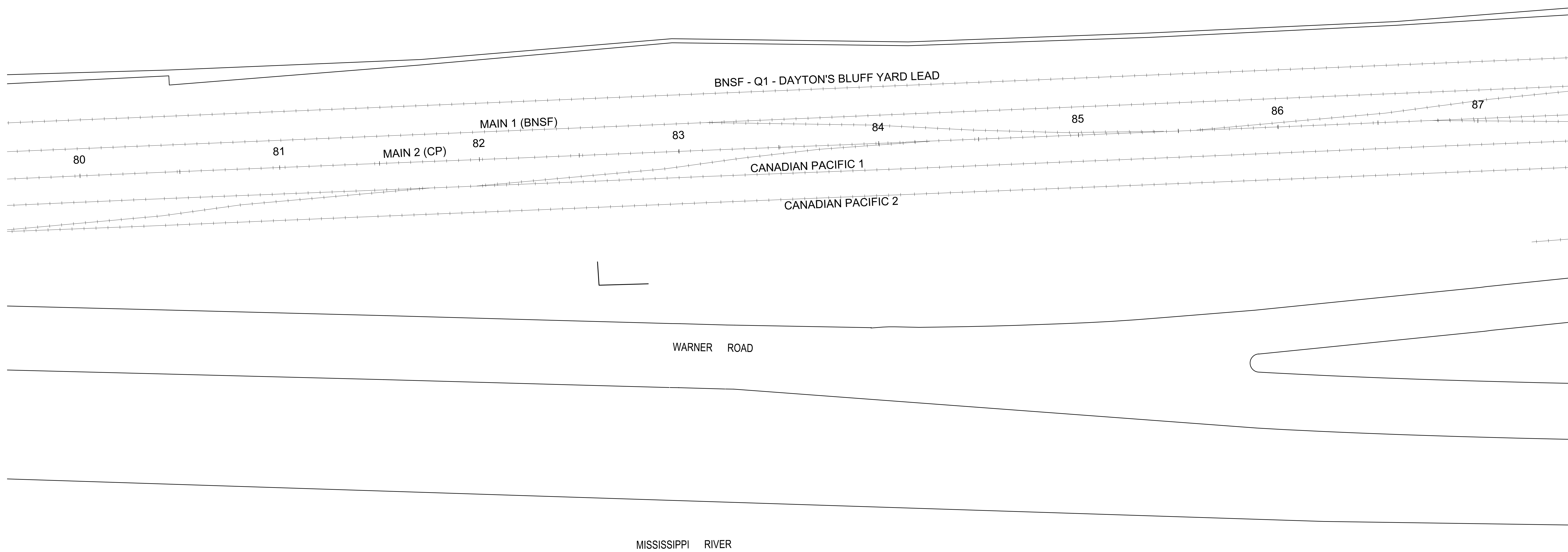
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DRAWN	IBURRELL

PROPOSED TRACK PLAN

SP NO. 091-595-023
SP NO. 091-595-024
SP NO. 091-595-025



FIFTH STREET TOWERS
100 SOUTH BIRTH STREET, SUITE 400
MINNEAPOLIS, MINNESOTA 55402
612.370.3178 TEL
612.370.3178 FAX
URS@URS.COM



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Gregory S. Brown
GREGORY S. BROWN
DATE: AUG 18, 2011, MN LIC. NO. 22814

8/18/2011	RAILROAD PROPERTY ACCESS - URS
REISSUED DEC 13, 2011	
REISSUED JAN 23, 2012	

REVISION HISTORY - THIS SHEET

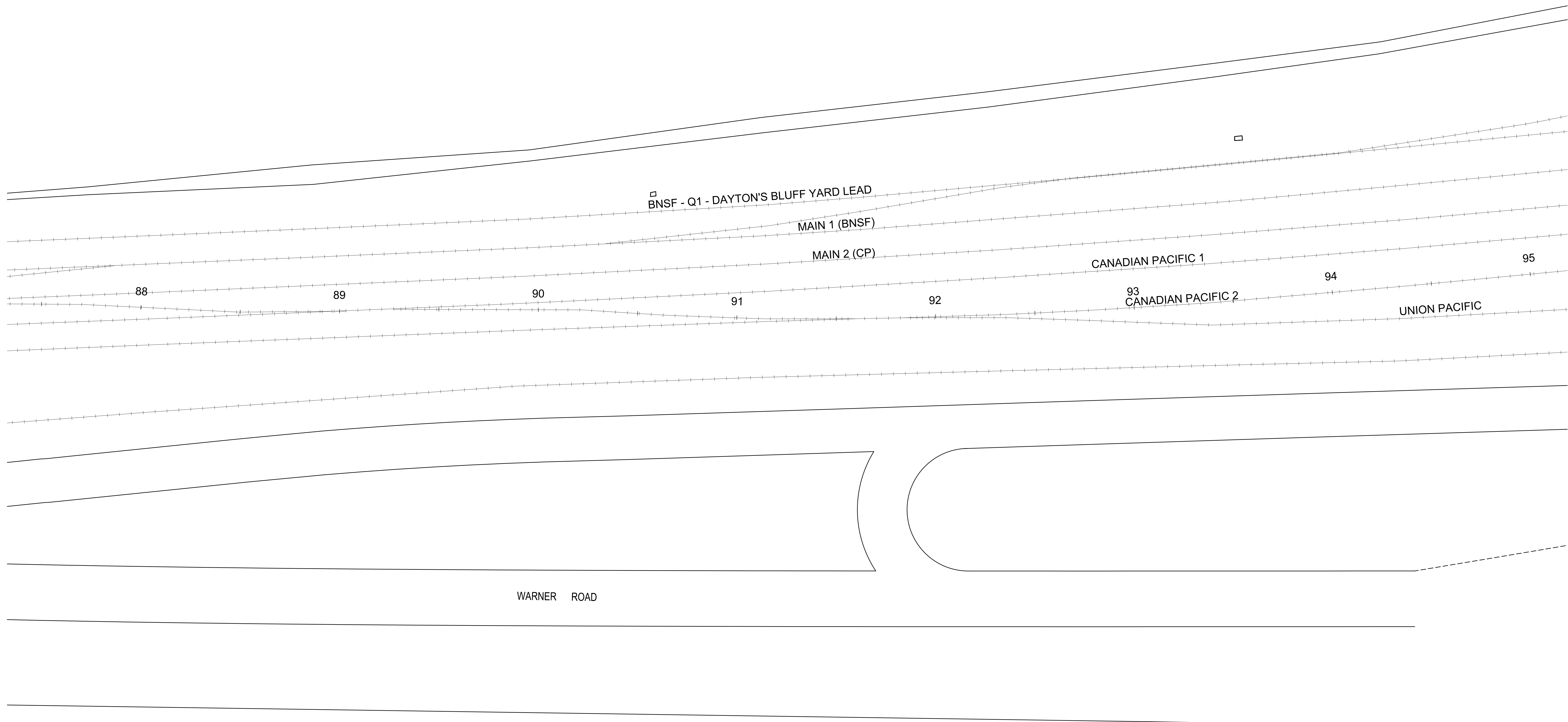
TRACK MODIFICATIONS

COMM. NO. 31810856
SCALE 1" = 50'-0" FS
DATE AUG 18, 2011
DRAWN IBURRELL

PROPOSED TRACK PLAN

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REISSUED DEC 13, 2011
REISSUED JAN 23, 2012

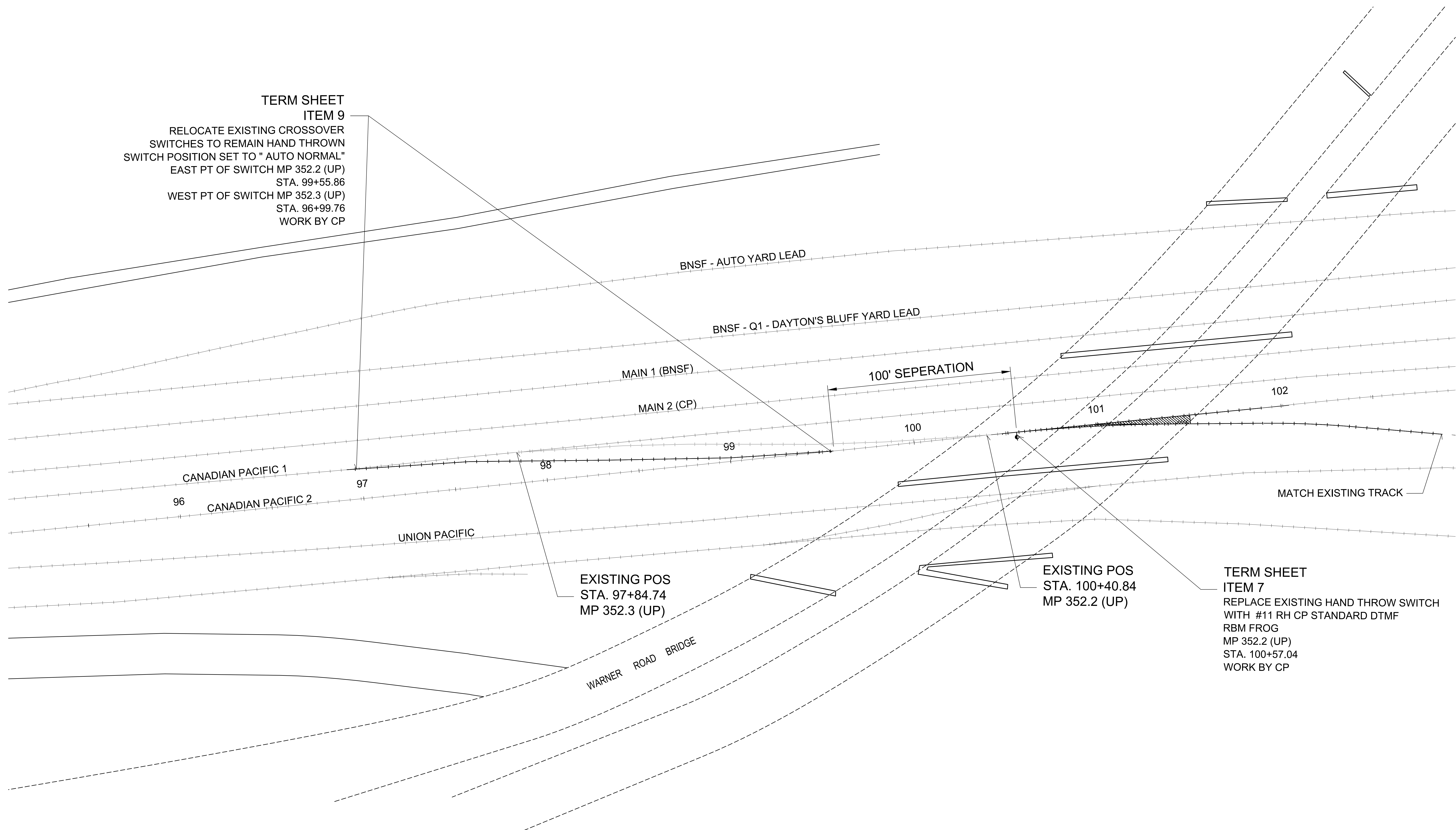
TRACK MODIFICATIONS	
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SCALE	1" = 50'-0" FS
DATE	AUG 18, 2011
DRAWN	IBURRELL

PROPOSED TRACK PLAN

SP NO. 091-595-023
SP NO. 091-595-024
SP NO. 091-595-025

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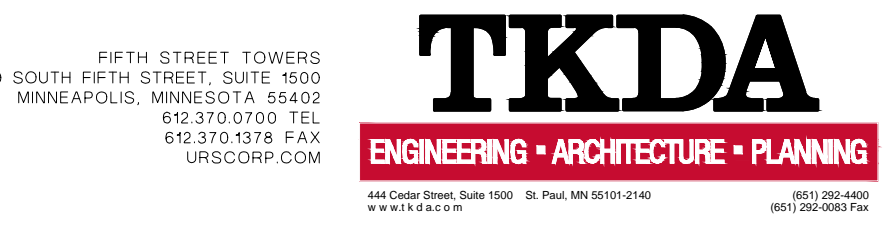
TERM SHEET
 ITEM 9
 RELOCATE EXISTING CROSSOVER
 SWITCHES TO REMAIN HAND THROWN
 SWITCH POSITION SET TO " AUTO NORMAL"
 EAST PT OF SWITCH MP 352.2 (UP)
 STA. 99+55.86
 WEST PT OF SWITCH MP 352.3 (UP)
 STA. 96+99.76
 WORK BY CP



EXISTING POS
 STA. 97+84.74
 MP 352.3 (UP)

EXISTING POS
 STA. 100+40.84
 MP 352.2 (UP)

TERM SHEET
 ITEM 7
 REPLACE EXISTING HAND THROW SWITCH
 WITH #11 RH CP STANDARD DTMF
 RBM FROG
 MP 352.2 (UP)
 STA. 100+57.04
 WORK BY CP

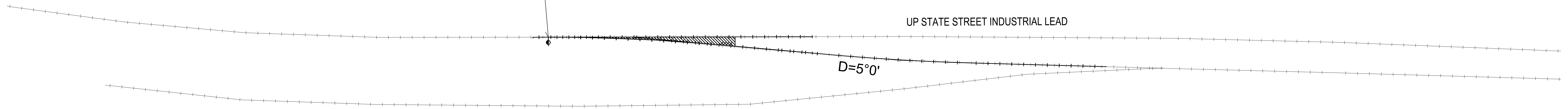


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 GREGORY S. BROWN
 DATE: AUG 18, 2011, MN LIC. NO. 22814

REVISION HISTORY - THIS SHEET	
8/18/2011	RAILROAD PROPERTY ACCESS - URS
REISSUED DEC 13, 2011	
REISSUED JAN 26, 2012	

TRACK MODIFICATIONS		PROPOSED TRACK PLAN	
COMM. NO.	31810856	SP NO.	091-595-023
SCALE	1" = 50'-0" FS	SP NO.	091-595-024
DATE	AUG 18, 2011	SP NO.	091-595-025
DRAWN	IBURRELL		

TERM SHEET
 ITEM 6
 POWER UP STATE STREET INDUSTRIAL
 LEAD SWITCH TO TRACKS 1 & 2
 #11 RH - BNSF-UP STANDARD
 RBM FROG
 MP 529.08 (UP)
 WORK BY UP



UNION DEPOT
 ST. PAUL, MINNESOTA



FIFTH STREET TOWERS
 100 SOUTH BIRTH STREET SUITE 400
 MINNEAPOLIS, MINNESOTA 55402
 612.370.0120 TEL
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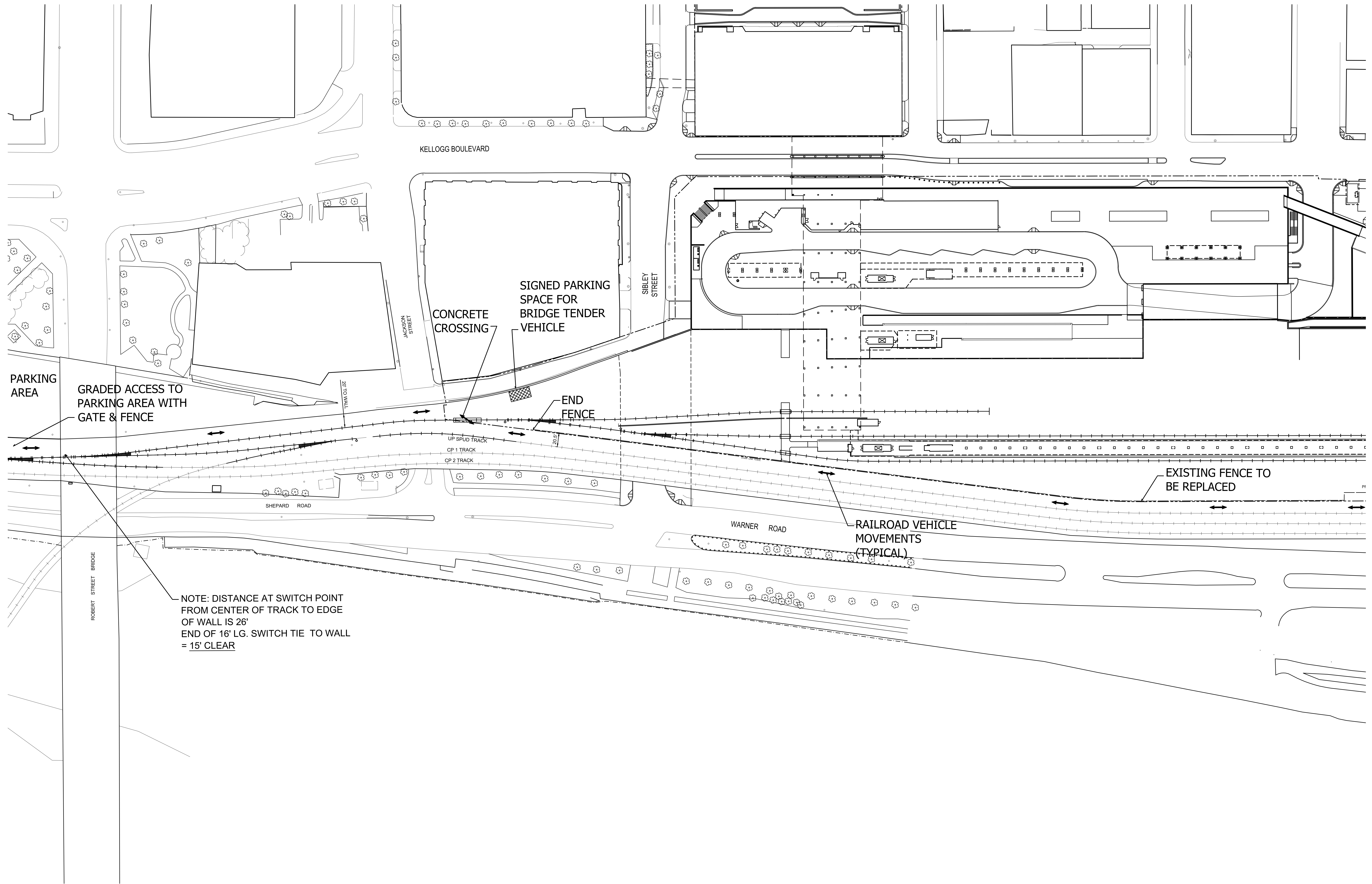
Gregory S. Brown
 GREGORY S. BROWN
 DATE: AUG 18, 2011, MN LIC. NO. 22814

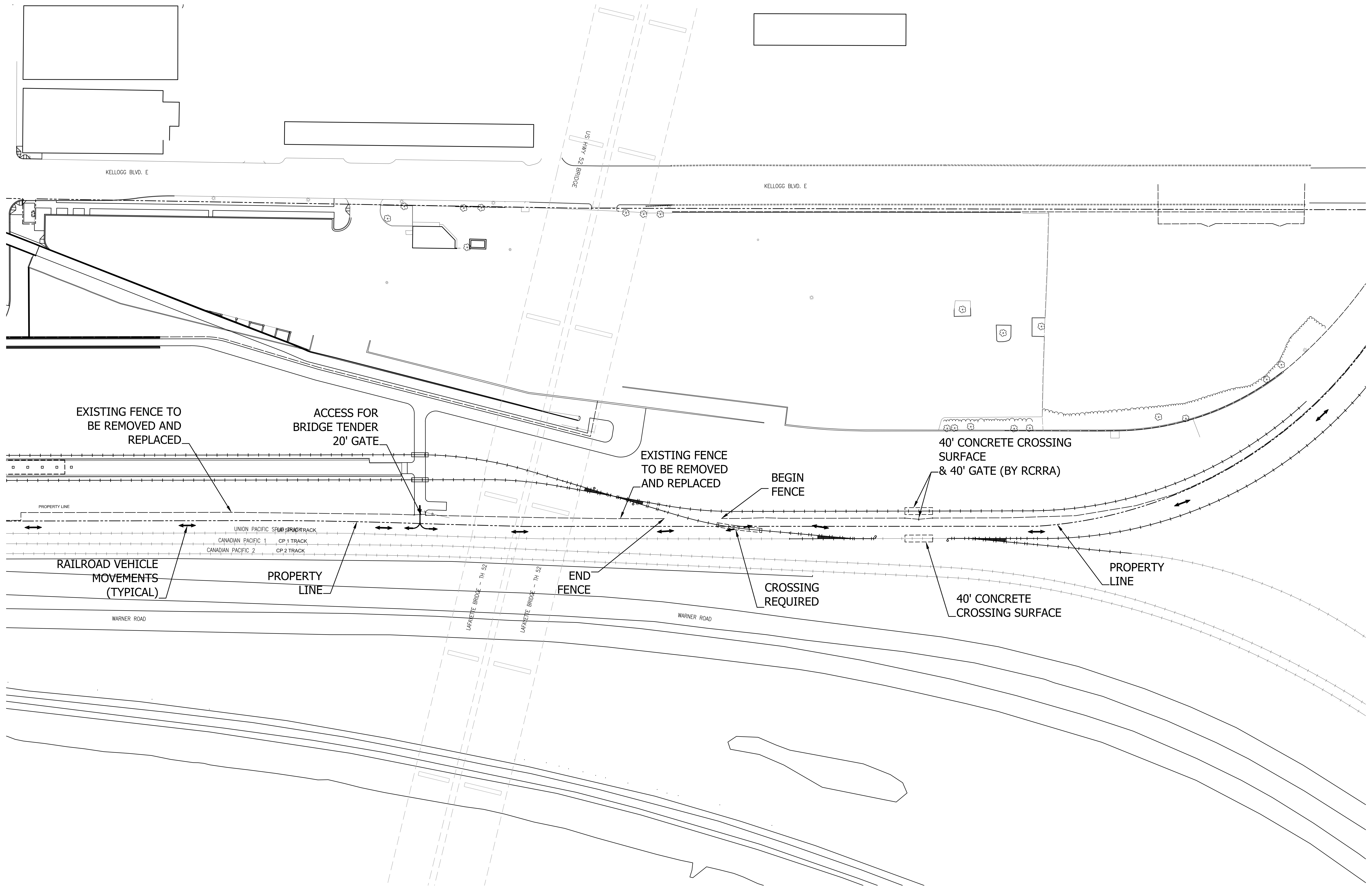
8/18/2011	RAILROAD PROPERTY ACCESS - URS
REISSUED DEC 13, 2011	
REISSUED JAN 23, 2012	

REVISION HISTORY - THIS SHEET

TRACK MODIFICATIONS	
COMM. NO.	31810856
SCALE	1" = 50'-0" FS
DATE	AUG 18, 2011
DRAWN	IBURRELL

PROPOSED TRACK PLAN	
SP NO. 091-595-023	18
SP NO. 091-595-024	
SP NO. 091-595-025	





UNION DEPOT
ST. PAUL, MINNESOTA



FIFTH STREET TOWERS
100 SOUTH 10TH STREET SUITE 400
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Gregory S. Brown
GREGORY S. BROWN
DATE: DEC. 20, 2010 MN LIC. NO. 22814

△	REISSUED DEC 13, 2011
△	REISSUED JAN 23, 2012
△	
△	
△	

REVISION HISTORY - THIS SHEET

RAILROAD LAYOUT

COMM. NO.	31810856
SCALE	1" = 50'-0" FS
DATE	AUG 18, 2011
DRAWN	IBURRELL

RAILROAD ACCESS PLAN

SP NO. 091-595-023	20
SP NO. 091-595-024	
SP NO. 091-595-025	