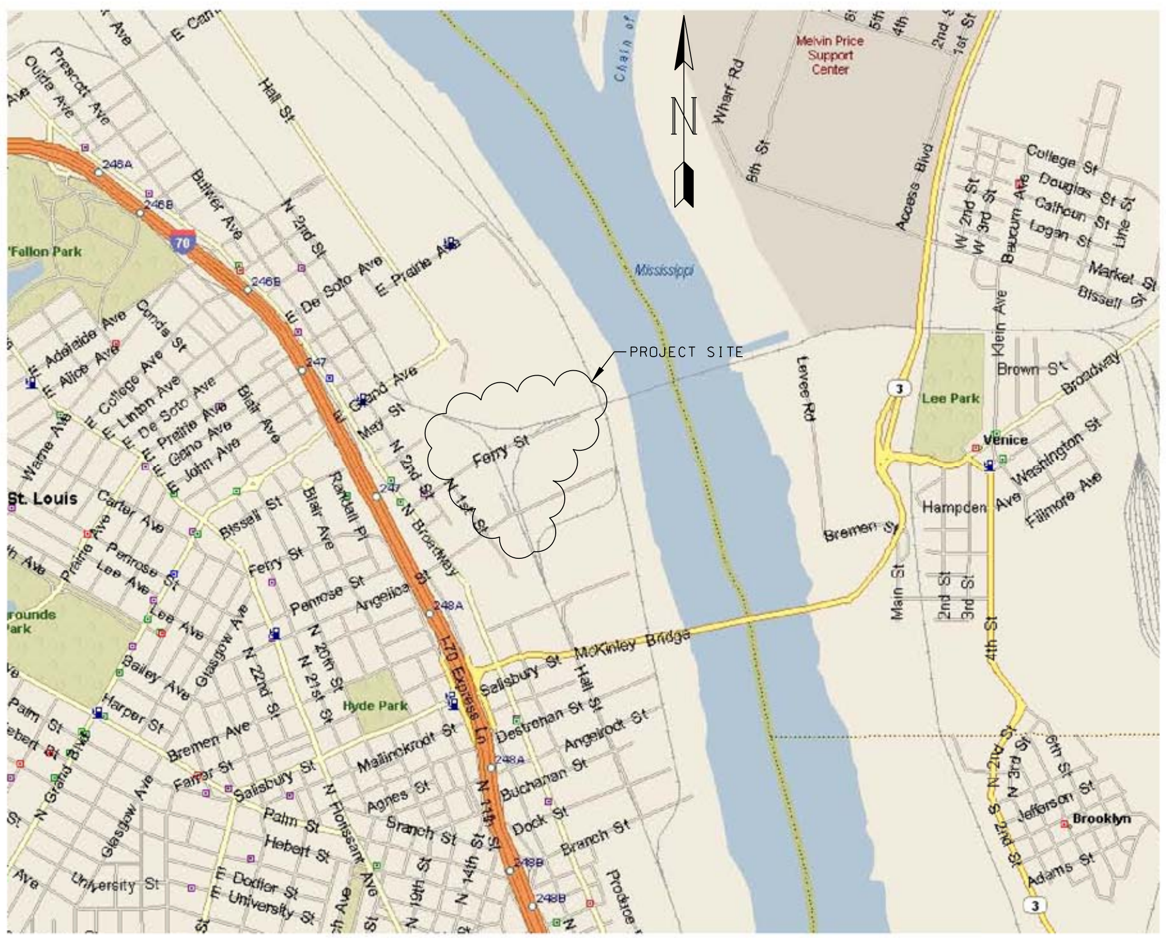
TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS



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PRELIMINARY
FOR
REVIEW/EVALUATION

DESIGN NINE
11166 TESSON FERRY ROAD
SUITE 100
ST. LOUIS MO, 63123-6966
(314) 729-7600
ENGINEERING SERVICES FOR RAILROADS AND INDUSTRY

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COVER SHEET

NO.	DATE	REVISION	BY
1	11/07/11	REVISED STATIONING ON WB BREMEN STREET TRACK	JPG/RSS

(THIS DRAWING IS INTENDED TO BE PLOTTED ON 11 X 17 INCH PAPER)

PROPOSED TRACK CHANGES TO IMPROVE
FOR AMTRAK ON TRRA SYSTEM
IN ST. LOUIS, MISSOURI

TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS

LEGEND

EXIST BENCH MARK	EXIST SWITCH POINT
EXIST C/L TRACK	EXIST UTILITY COMBINED SEWER
EXIST CONCRETE	EXIST UTILTIY COMMUNICATION WIRE
EXIST CONTOUR	EXIST UTILITY FIBEROPTIC
EXIST CONTOUR INDEX	EXIST UTILITY GAS LINE
EXIST CONTROL POINT	EXIST UTILITY HIGH VOLTAGE
EXIST FIRE HYDRANT	EXIST UTILITY OIL LINE
EXIST GUARDRAIL	EXIST UTILITY STORM SEWER
EXIST POWER POLE	EXIST UTILITY UNDERGROUND ELECTRIC
EXIST PROPERTY LINE	EXIST UTILITY WATER
EXIST RIVER EDGE	PRO C/L TRACK
EXIST ROAD	PRO PSW POWER
EXIST SIGNAL	

USGS BENCH MARKS

NO.	USGS ELEV.	DECRIPTION
BM 1	449.05	CHISELED SQUARE IN CONCRETE ON TOP OF SOUTH SIDE OF WEST ABUTMENT ON MAY STREET LEG.
BM 2	471.15	CHISELED SQUARE IN CONCRETE IN CENTER OF NORTH ELECTRICAL TOWER ON WEST RIVER PIER

CONTROL POINT TABLE

CP NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP 50	11126.260	9833.530	438.830	REBAR WITH ORANGE CAP
CP 51	10704.740	9665.320	420.200	1/2" PROPERTY PIN
CP 52	10633.120	10016.180	432.760	COTTON PICKER PIN
CP 53	10653.350	9468.660	419.720	REBAR WITH YELLOW DNI CAP
CP 54	10950.570	9986.240	419.880	COTTON PICKER PIN
CP 55	10229.800	8729.490	447.130	REBAR WITH YELLOW DNI CAP
CP 56	10472.160	8743.410	449.030	REBAR WITH YELLOW DNI CAP
CP 57	10539.970	8733.820	418.510	REBAR WITH YELLOW DNI CAP
CP 58	10667.010	9054.510	421.910	REBAR WITH YELLOW DNI CAP
CP 59	10723.900	9244.160	422.620	REBAR WITH YELLOW DNI CAP
CP 60	10848.980	9517.580	422.580	REBAR WITH YELLOW DNI CAP
CP 61	11029.850	9604.080	422.840	REBAR WITH YELLOW DNI CAP
CP 62	10901.890	8990.410	425.420	REBAR WITH YELLOW DNI CAP
CP 63	10604.649	9554.142	430.289	REBAR WITH YELLOW DNI CAP
CP 64	10535.193	9200.283	420.761	REBAR WITH YELLOW DNI CAP
CP 65	10470.009	8974.096	418.659	REBAR WITH YELLOW DNI CAP
CP 66	10312.782	8835.662	421.328	REBAR WITH YELLOW DNI CAP
CP 67	10408.419	8789.143	422.140	REBAR WITH YELLOW DNI CAP
CP 68	10591.351	9242.734	457.518	REBAR WITH YELLOW DNI CAP
CP 69	10632.020	9112.561	421.470	REBAR WITH YELLOW DNI CAP

PROPOSED TRRA MAIN EB BREMEN STREET

DESC.	STATION	LENGTH	NORTHING	EASTING	CURVE DATA
L1	PI STA 95+16.42	602.808'	10826.268	9993.274	N/A
C1	PC STA 101+19.23 PI STA 101+82.90 RP N/A PT STA 102+46.52	127.292'	10646.170 10627.148 8823.333 10604.121	9417.999 9357.237 9988.665 9297.877	DELTA = 3°49'06" Dc(CHORD) = 3°00'00" RADIUS = 1910.08' CHORD = 127.27' MID-ORD = 1.06' TANGENT = 63.67' EXTERNAL = 1.06'
L2	TS STA 103+95.19	148.669'	10550.355	9159.271	N/A
S1	TS STA 103+95.19 SC STA 105+05.19	110.000'	10550.355 10508.457	9159.271 9057.584	DELTA = 3°34'23"
C2	SC STA 105+05.19 PI STA 108+19.49 RP N/A PCC STA 111+09.04	603.853'	10508.457 10376.747 9707.684 10094.244	9057.584 8772.210 9427.167 8634.450	DELTA = 39°13'46" Dc(CHORD) = 6°30'00" RADIUS = 881.95' CHORD = 592.13' MID-ORD = 51.18' TANGENT = 314.30' EXTERNAL = 54.33'
C3	PCC STA 111+09.04 PI STA 115+24.67 RP N/A PT STA 118+93.41	784.370'	10094.244 9720.668 9673.986 9332.324	8634.450 8452.279 9496.270 8600.380	DELTA = 46°52'15" Dc(CHORD) = 5°58'42" RADIUS = 958.83' CHORD = 762.68' MID-ORD = 79.09' TANGENT = 415.63 EXTERNAL = 86.21'
L3	PI STA 123+27.91	434.501'	8926.344	8755.207	N/A

PROPOSED #15 CROSSOVER

DESC.	STATION	LENGTH	NORTHING	EASTING	CURVE DATA
L1	PI STA 0+00.00 PI STA 0+42.17	42.170'	10815.642 10803.043	9959.330 9919.086	N/A
L2	PI STA 0+42.17 PI STA 2+22.37	180.199'	10803.043 10760.777	9919.086 9743.914	N/A
L3	PI STA 2+22.37 PI STA 2+64.54	42.170'	10760.777 10748.178	9743.914 9703.670	N/A

PROPOSED TRRA MAIN WB BREMEN STREET

DESC.	STATION	LENGTH	NORTHING	EASTING	CURVE DATA
L1	PI STA 101+43.13	42.170'	10651.079	9393.514	N/A
L2	PI STA 101+83.30	213.000'	10638.480	9353.270	N/A
S1	TS STA 103+96.30 SC STA 105+06.30	110.000'	10561.448 10519.578	9154.687 9052.988	DELTA = 3°31'31"
C1	SC STA 105+06.30 PI STA 108+06.05 RP N/A PCC STA 110+84.74	578.435'	10519.578 10394.194 9707.612 10130.020	9052.988 8780.721 9426.914 8639.081	DELTA = 37°04'28" Dc(CHORD) = 6°24'46" RADIUS = 893.93' CHORD = 568.40' MID-ORD = 46.38' TANGENT = 299.75' EXTERNAL = 48.92'
C2	PCC STA 110+84.74 PI STA 115+26.28 RP N/A PT STA 119+13.16	828.424'	10130.020 9740.885 9672.980 9328.328	8639.081 8430.440 9491.506 8587.775	DELTA = 49°04'26" Dc(CHORD) = 5°55'35" RADIUS = 967.22' CHORD = 803.33' MID-ORD = 87.35' TANGENT = 441.54' EXTERNAL = 96.02'
L3	PI STA 123+48.43	435.265'	8921.634	8742.874	N/A

PROPOSED TRRA MAIN WB MAY STREET

DESC.	STATION	LENGTH	NORTHING	EASTING	CURVE DATA
L1	PI STA 95+16.42	1065.528'	10837.721	9989.690	N/A
S1	TS STA 105+81.95 SC STA 106+31.95	50.000'	10519.377 10504.717	8972.828 8925.027	DELTA = 0°59'59"
C1	SC STA 106+31.95 PI STA 109+70.09 RP N/A CS STA 112+96.08	664.131'	10504.717 10409.338 11879.232 10469.079	8925.027 8600.615 8520.910 8267.791	DELTA = 26°33'35" Dc(CHORD) = 4°00'00" RADIUS = 1432.69' CHORD = 658.20' MID-ORD = 38.31' TANGENT = 338.14' EXTERNAL = 39.36'
S2	CS STA 112+96.08 ST STA 114+46.08	150.000'	10469.079 10500.711	8267.791 8121.183	DELTA = 2°59'58"
L2	PI STA 118+00.59	354.502'	10581.514	7776.013	N/A

PRELIMINARY
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(314) 729-7600

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MISC. DETAIL SHEET

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PROPOSED TRACK CHANGES TO IMPROVE
FOR AMTRAK ON TRRA SYSTEM
IN ST. LOUIS, MISSOURI

TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS

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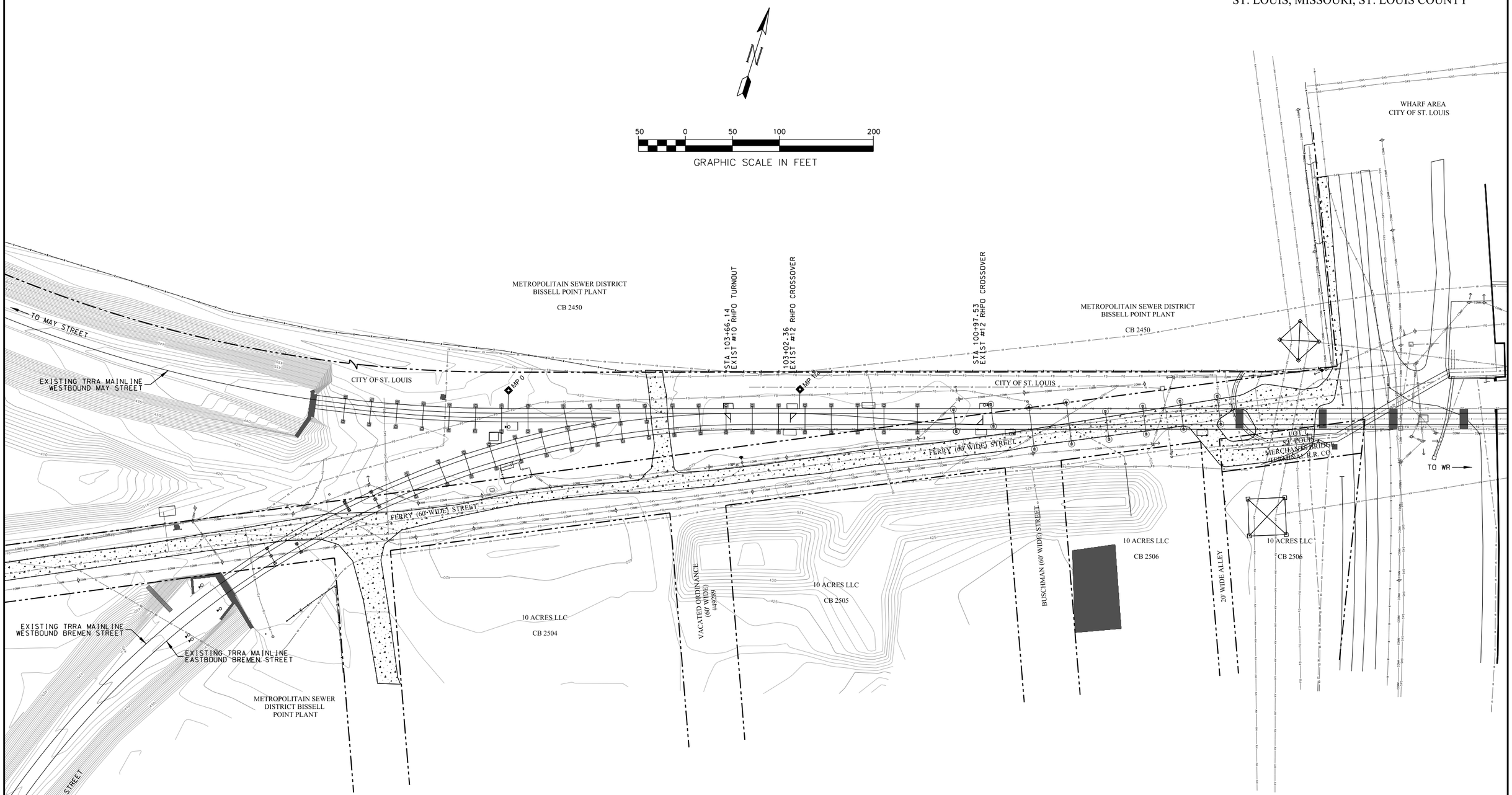
ST. LOUIS, MISSOURI, ST. LOUIS COUNTY



LOCATIONS OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND SHOWN FOR CONTRACTOR INFORMATION PURPOSES. THE IMPLIED PRESENCE, OR ABSENCE, OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATIONS, IDENTIFICATION AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTING, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVE GROUND UTILITIES, REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR. (MISSOURI ONE CALL 1-800-344-7483).

NOTE: ORDINANCE #14797 STIPULATES AGREEMENT FOR MERCHANT BRIDGE OWNERSHIP WITH THE CITY OF ST. LOUIS, MISSOURI.

PRELIMINARY FOR REVIEW/EVALUATION

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ENGINEERING SERVICES FOR RAILROADS AND INDUSTRY

11166 TESSON FERRY ROAD
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EXISTING PLAN OVERVIEW

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PROPOSED TRACK CHANGES TO IMPROVE FOR AMTRAK ON TRRA SYSTEM IN ST. LOUIS, MISSOURI

TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS

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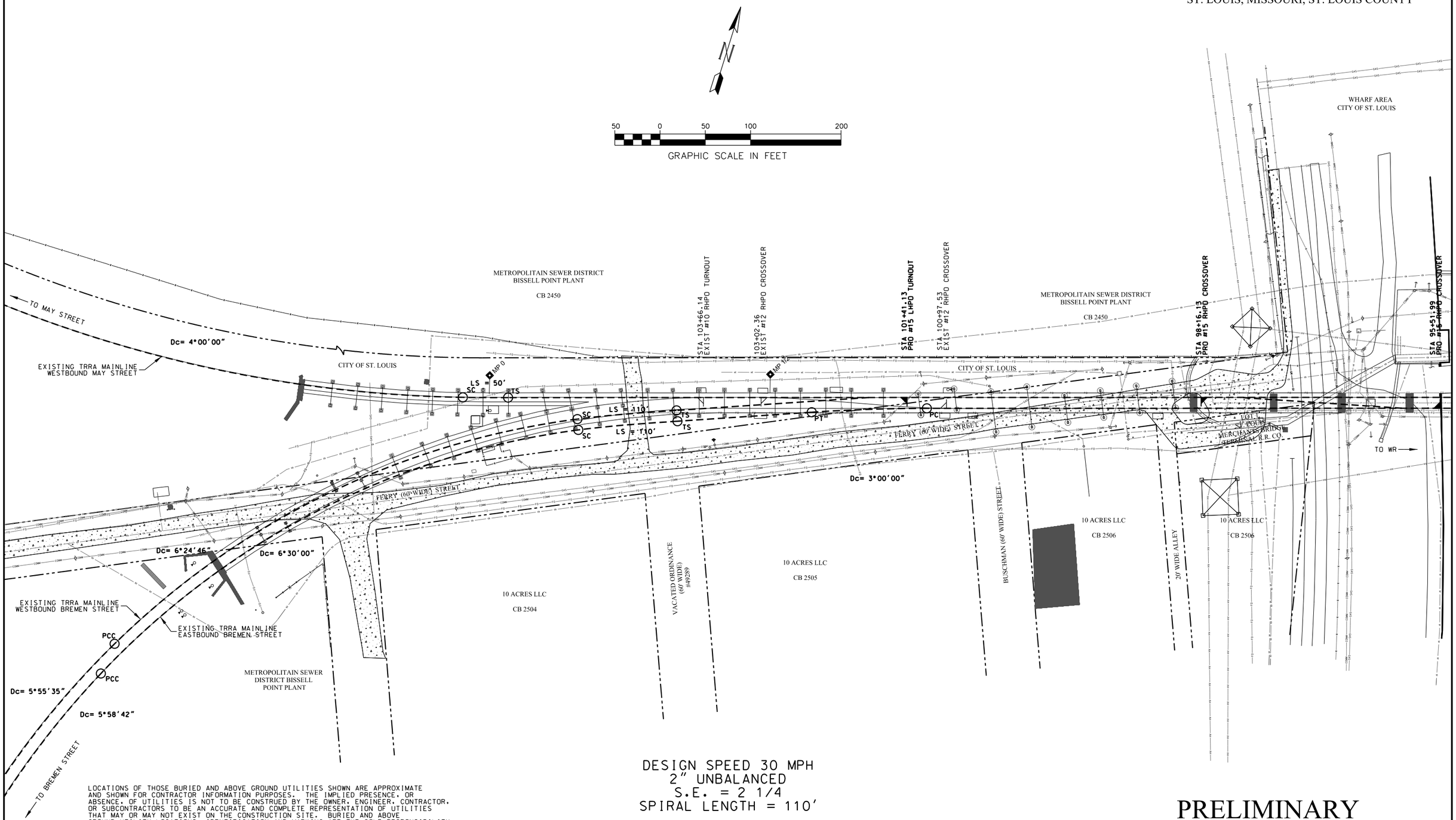
ST. LOUIS, MISSOURI, ST. LOUIS COUNTY



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DESIGN SPEED 30 MPH
2" UNBALANCED
S.E. = 2 1/4
SPIRAL LENGTH = 110'

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PROPOSED WEST APPROACH PLAN OVERVIEW

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PROPOSED TRACK CHANGES TO IMPROVE FOR AMTRAK ON TRRA SYSTEM IN ST. LOUIS, MISSOURI

TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS

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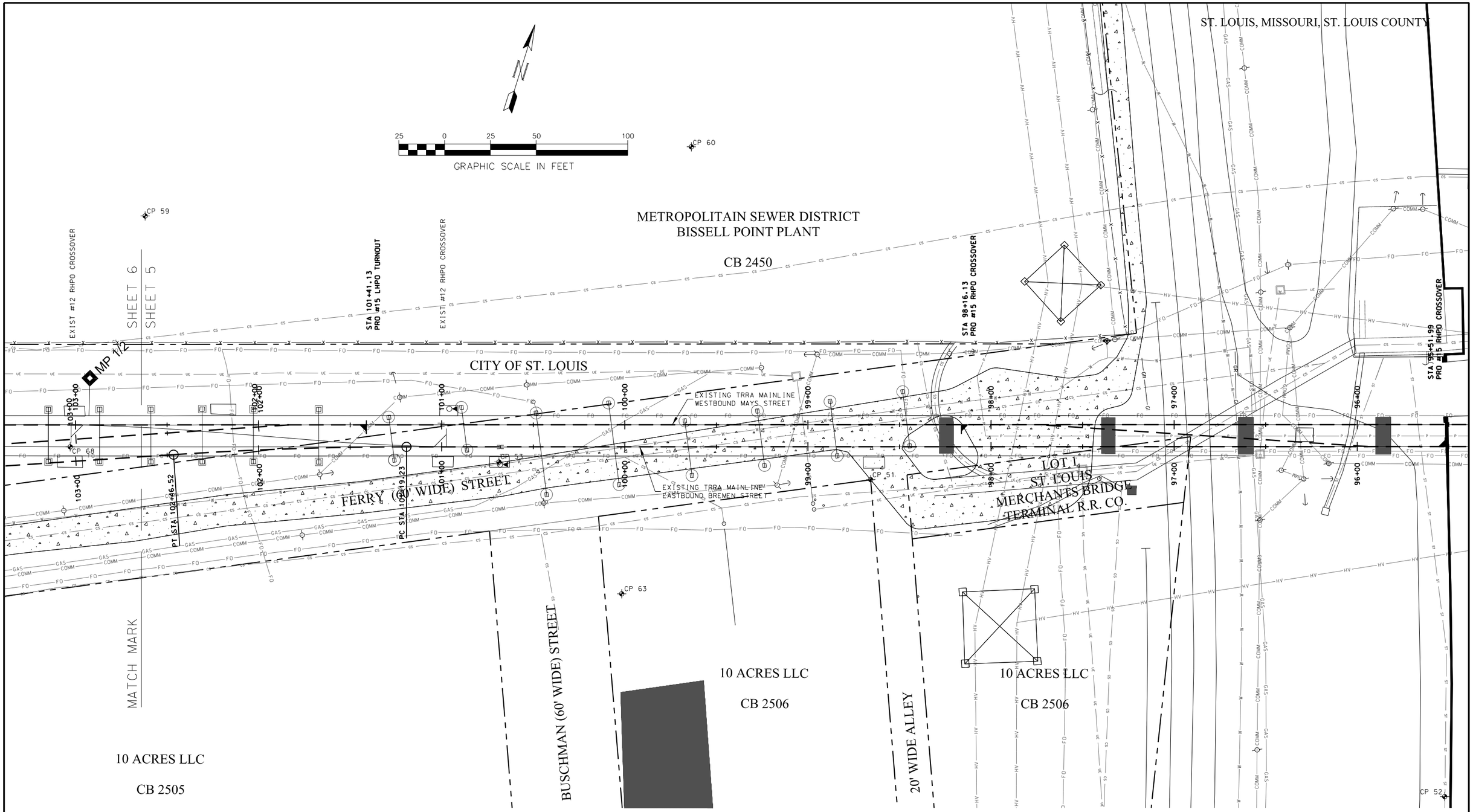
ST. LOUIS, MISSOURI, ST. LOUIS COUNTY



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Jpg 11/7/2011 1:09:30 PM Sheet 05 - Plan Sheet 1

DESIGN NINE
ENGINEERING SERVICES FOR RAILROADS AND INDUSTRY

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PLAN SHEET

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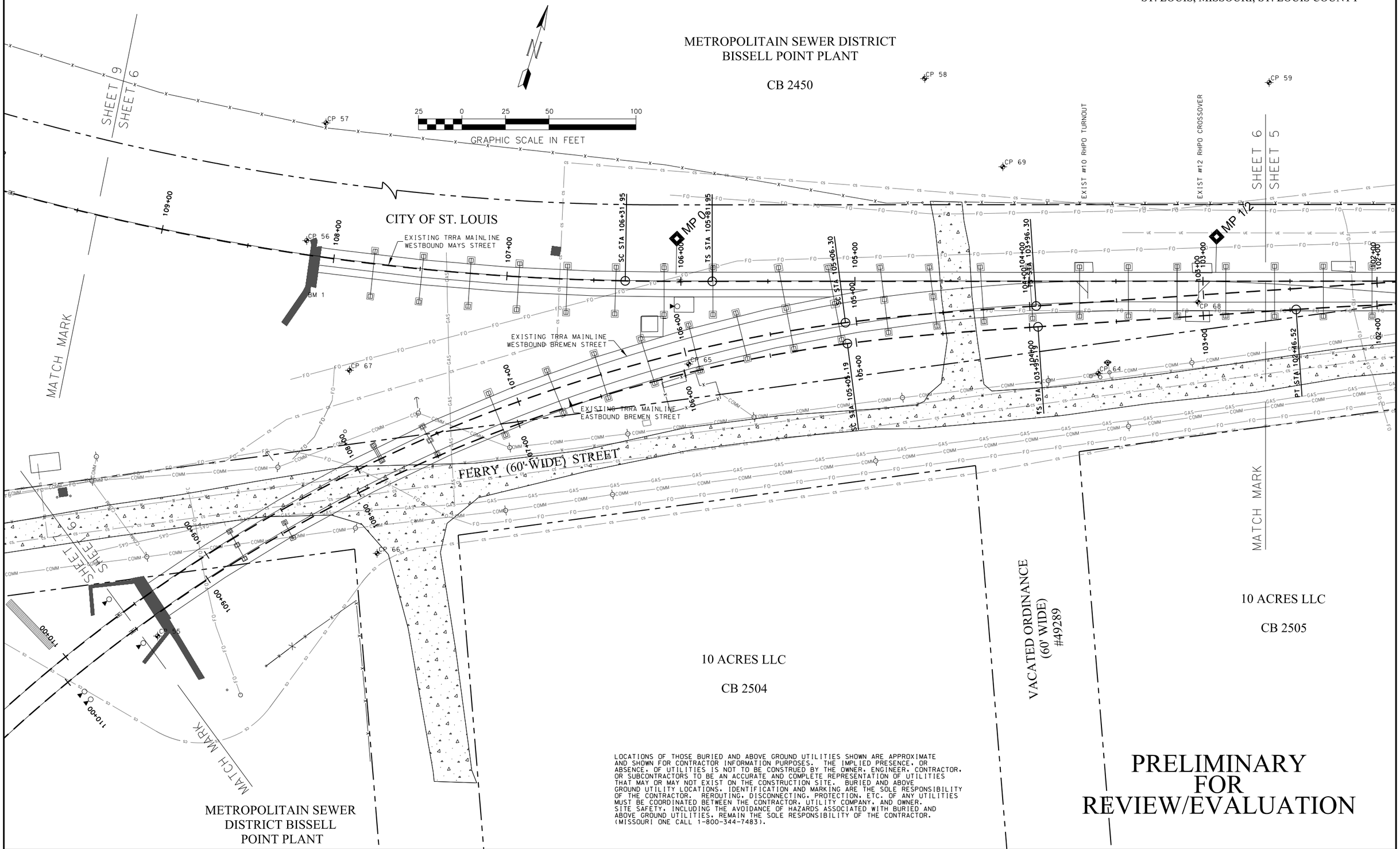
PROPOSED TRACK CHANGES TO IMPROVE FOR AMTRAK ON TRRA SYSTEM IN ST. LOUIS, MISSOURI

TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS

ST. LOUIS, MISSOURI, ST. LOUIS COUNTY

METROPOLITAIN SEWER DISTRICT
BISSELL POINT PLANT

CB 2450



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PRELIMINARY
FOR
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METROPOLITAIN SEWER
DISTRICT BISSELL
POINT PLANT

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DESIGN NINE
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PROPOSED TRACK CHANGES TO IMPROVE
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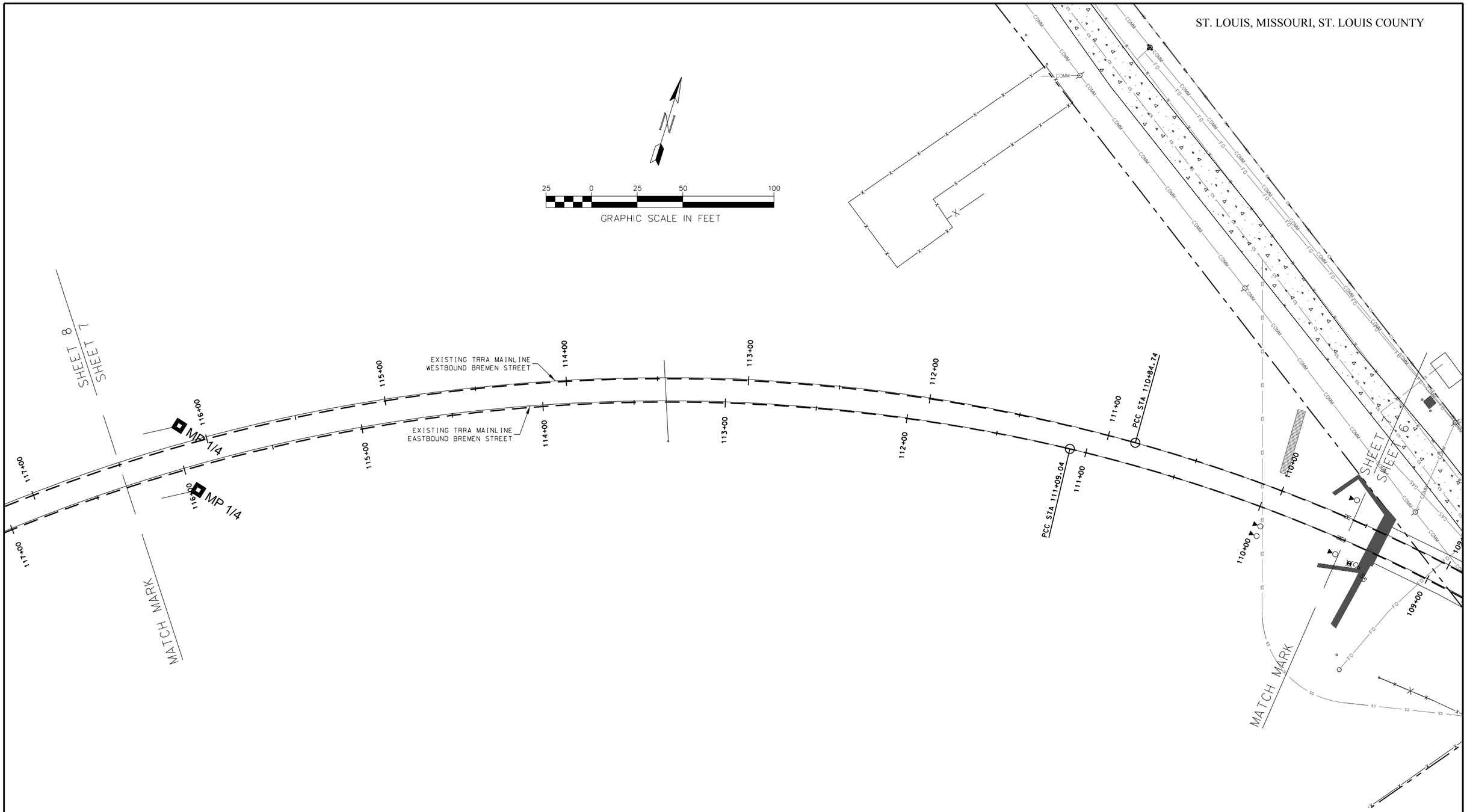
IN ST. LOUIS, MISSOURI

TERMINAL RAILROAD
ASSOCIATION
OF ST. LOUIS

ST. LOUIS, MISSOURI, ST. LOUIS COUNTY



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PRELIMINARY FOR REVIEW/EVALUATION

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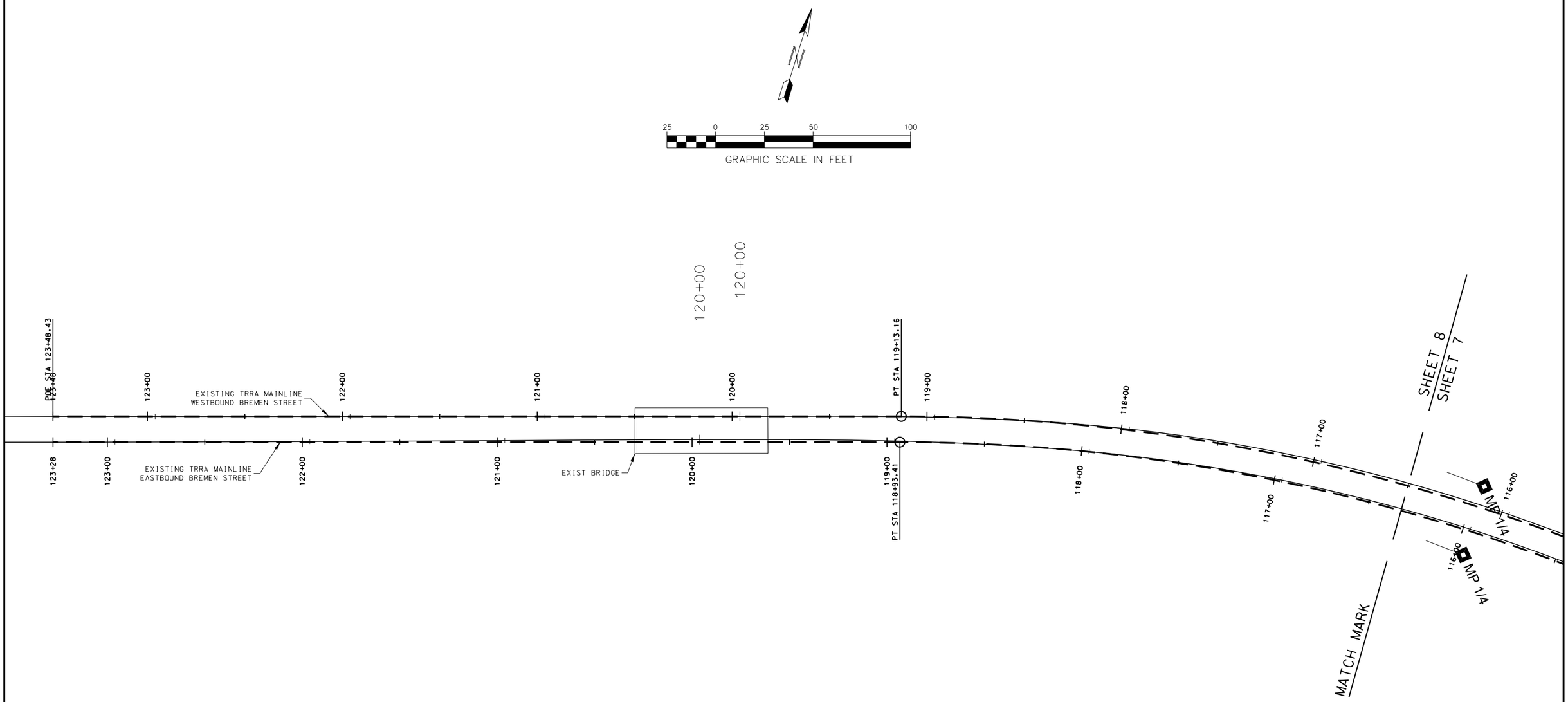
Jpg 11-7-2011 11:01 PM Sheet 07 - Plan Sheet 3

DESIGN NINE ENGINEERING SERVICES FOR RAILROADS AND INDUSTRY	11166 TESSON FERRY ROAD SUITE 100 ST. LOUIS MO, 63123-6966 (314) 729-7600	Drawn By: JPG	Scale: 1" = 50'	PLAN SHEET	1	11/07/11	REVISED STATIONING ON WB BREMEN STREET TRACK	JPG/RSS
		Checked By: RSS	Sheet 7 of 20					
		Drawing: 11086-1	Date: 09/21/2011		NO.	DATE	REVISION (THIS DRAWING IS INTENDED TO BE PLOTTED ON 11 X 17 INCH PAPER)	BY

PROPOSED TRACK CHANGES TO IMPROVE FOR AMTRAK ON TRRA SYSTEM IN ST. LOUIS, MISSOURI

TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS



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PROPOSED TRACK CHANGES TO IMPROVE FOR AMTRAK ON TRRA SYSTEM IN ST. LOUIS, MISSOURI

TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS

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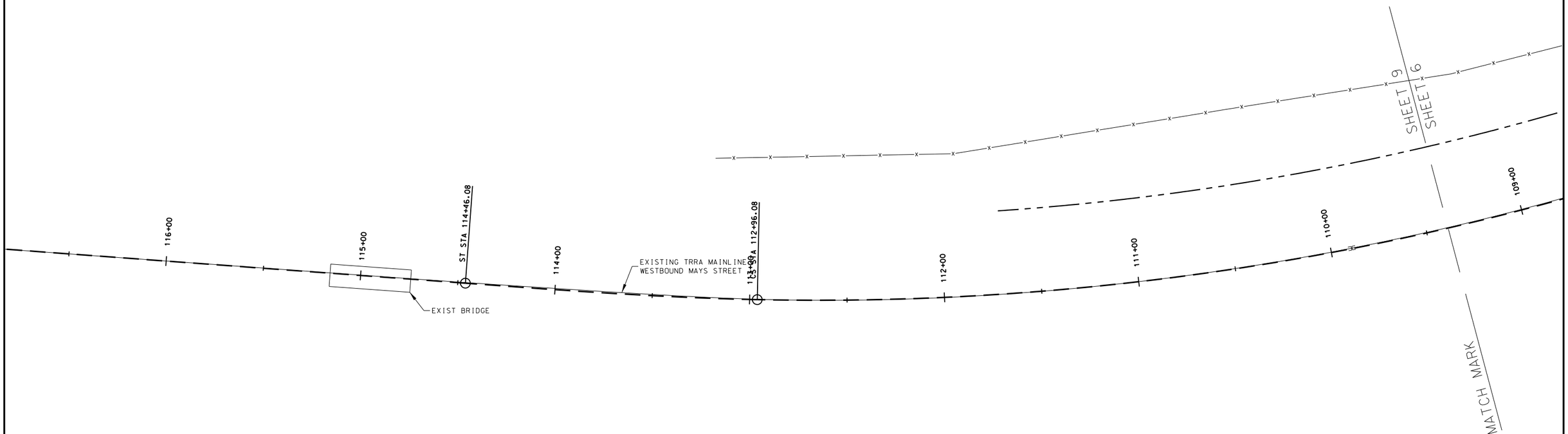

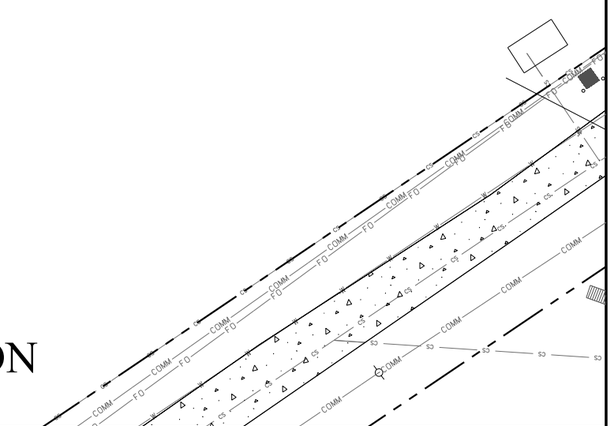

LOCATIONS OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND SHOWN FOR CONTRACTOR INFORMATION PURPOSES. THE IMPLIED PRESENCE, OR ABSENCE, OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATIONS, IDENTIFICATION AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTING, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVE GROUND UTILITIES, REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR. (MISSOURI ONE CALL 1-800-344-7483).

PRELIMINARY FOR REVIEW/EVALUATION

DESIGN NINE
ENGINEERING SERVICES FOR RAILROADS AND INDUSTRY
11166 TESSON FERRY ROAD
SUITE 100
ST. LOUIS MO, 63123-6966
(314) 729-7600

Drawn By:	JPG	Scale:	1" = 50'
Checked By:	RSS	Sheet	9 of 20
Drawing:	11086-1	Date:	09/21/2011

PLAN SHEET

NO.	DATE	REVISION (THIS DRAWING IS INTENDED TO BE PLOTTED ON 11 X 17 INCH PAPER)	BY
1	11/07/11	REVISED STATIONING ON WB BREMEN STREET TRACK	JPG/RSS

PROPOSED TRACK CHANGES TO IMPROVE FOR AMTRAK ON TRRA SYSTEM IN ST. LOUIS, MISSOURI

TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS

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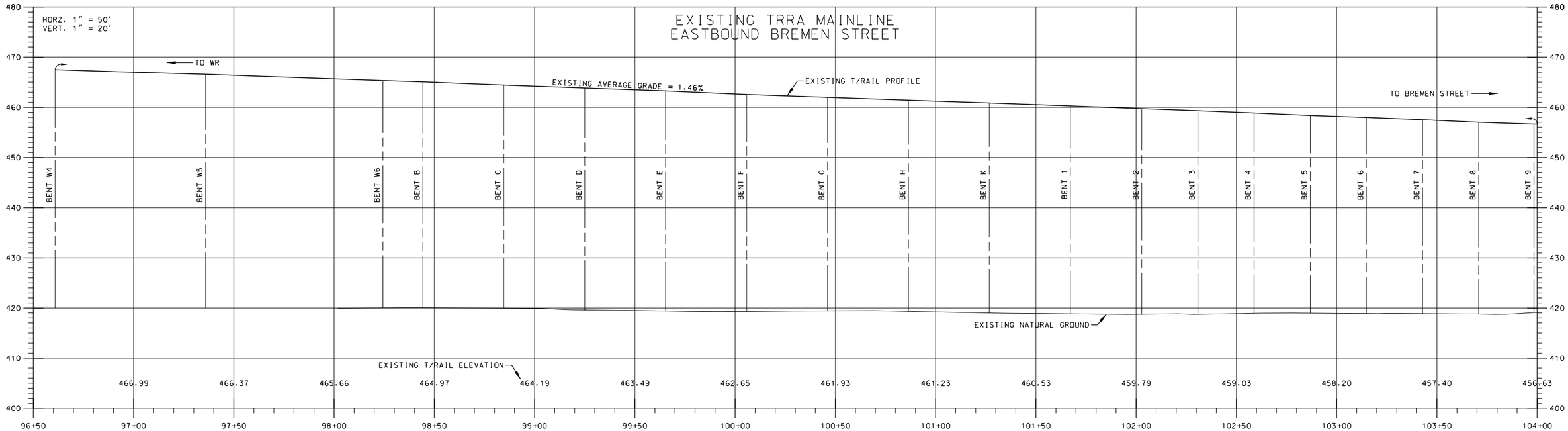
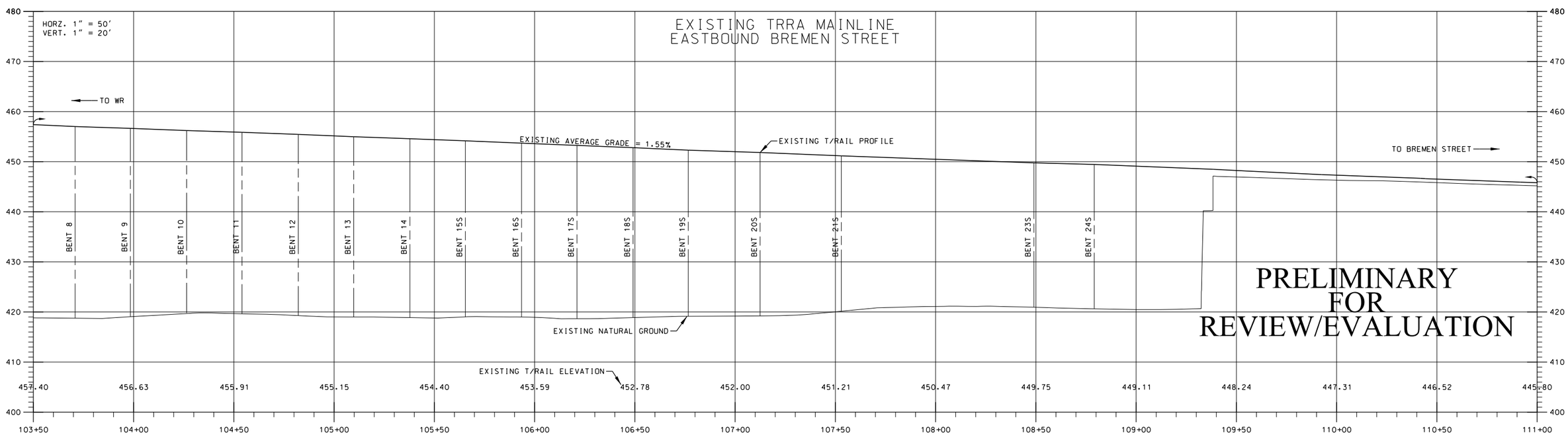
JPG 11/7/2011 11:04:42 PM Sheet 09 - Plan Sheet 5





PRELIMINARY
FOR
REVIEW/EVALUATION

S:\2011\TRRA\Merchants Bridge West Approach\Design\11086-1.dgn
Jpg 11/7/2011 11:05:56 PM Sheet 10 - Profile Sheet 1

DESIGN NINE
ENGINEERING SERVICES FOR RAILROADS AND INDUSTRY
11166 TESSON FERRY ROAD
SUITE 100
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(314) 729-7600

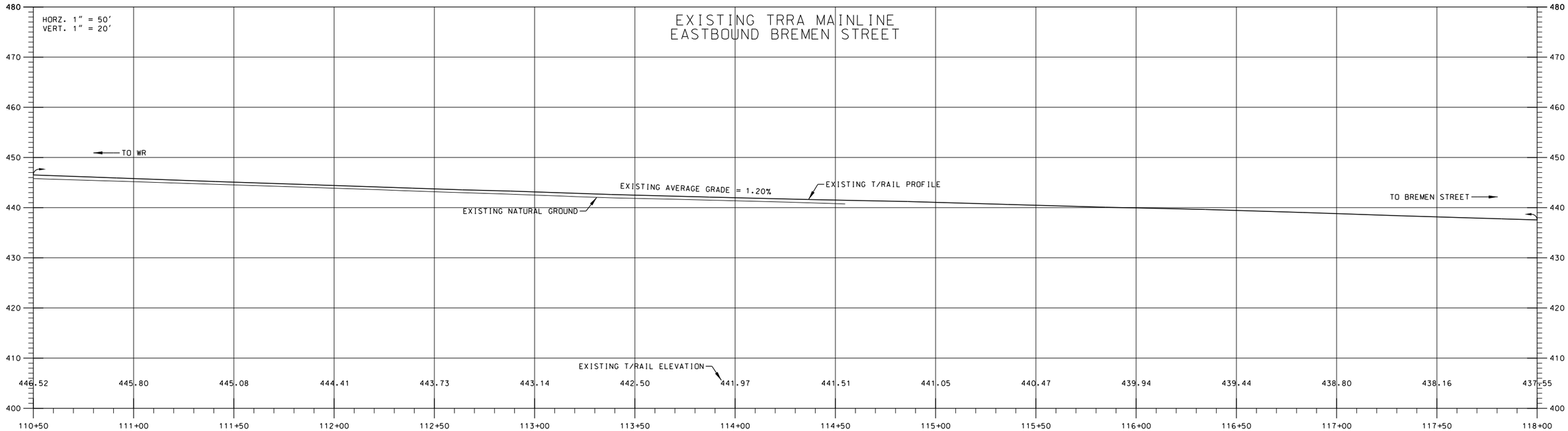
Drawn By:	JPG	Scale:	AS SHOWN
Checked By:	RSS	Sheet	10 of 20
Drawing:	11086-1	Date:	09/09/2011

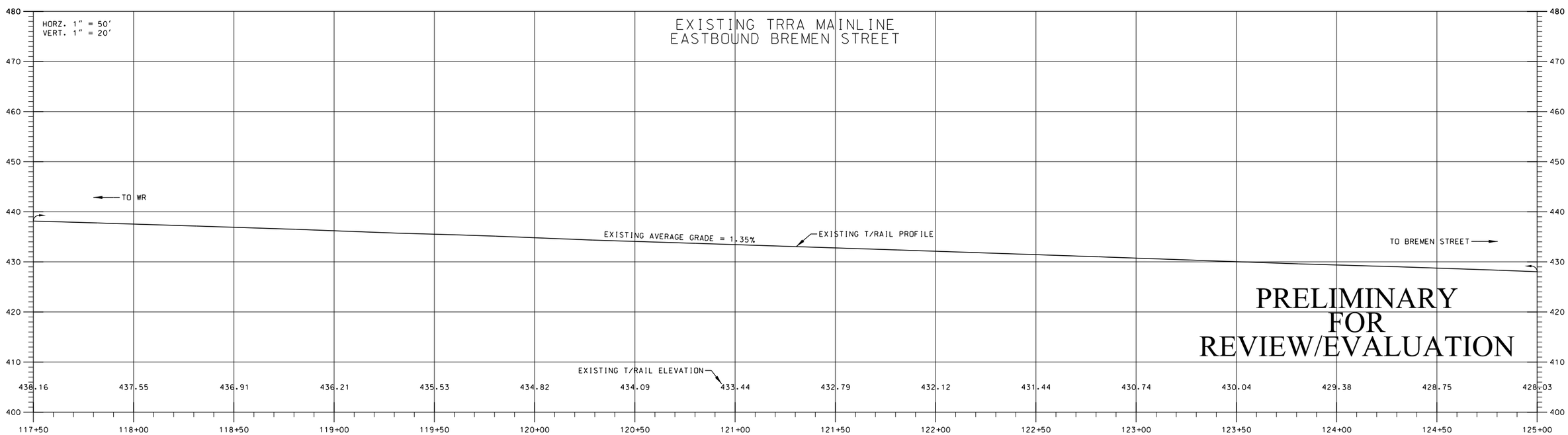
PROFILE SHEET

NO.	DATE	REVISION (THIS DRAWING IS INTENDED TO BE PLOTTED ON 11 X 17 INCH PAPER)	BY
1	11/07/11	REVISED STATIONING ON WB BREMEN STREET TRACK	JPG/RSS

PROPOSED TRACK CHANGES TO IMPROVE
FOR AMTRAK ON TRRA SYSTEM
IN ST. LOUIS, MISSOURI

TERMINAL RAILROAD
ASSOCIATION
OF ST. LOUIS





PRELIMINARY
FOR
REVIEW/EVALUATION

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Jpg 11/7/2011 11:20:49 PM Sheet 11 - Profile Sheet 2

DESIGN NINE
ENGINEERING SERVICES FOR RAILROADS AND INDUSTRY
11166 TESSON FERRY ROAD
SUITE 100
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(314) 729-7600

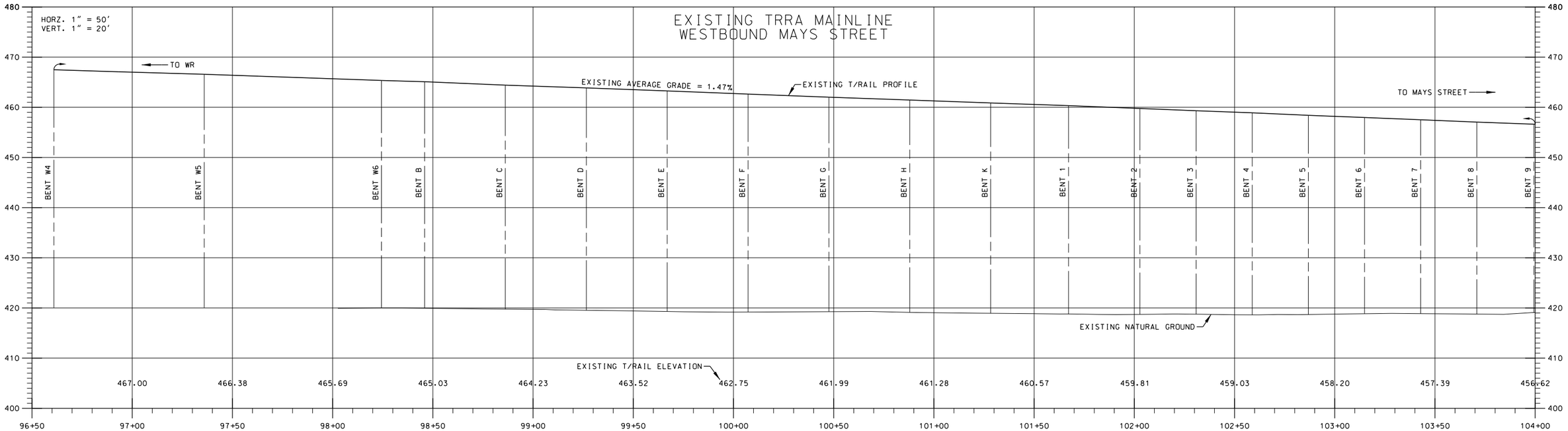
Drawn By: JPG	Scale: AS SHOWN		
Checked By: RSS	Sheet 11 of 20		
Drawing: 11086-1	Date: 09/21/2011		

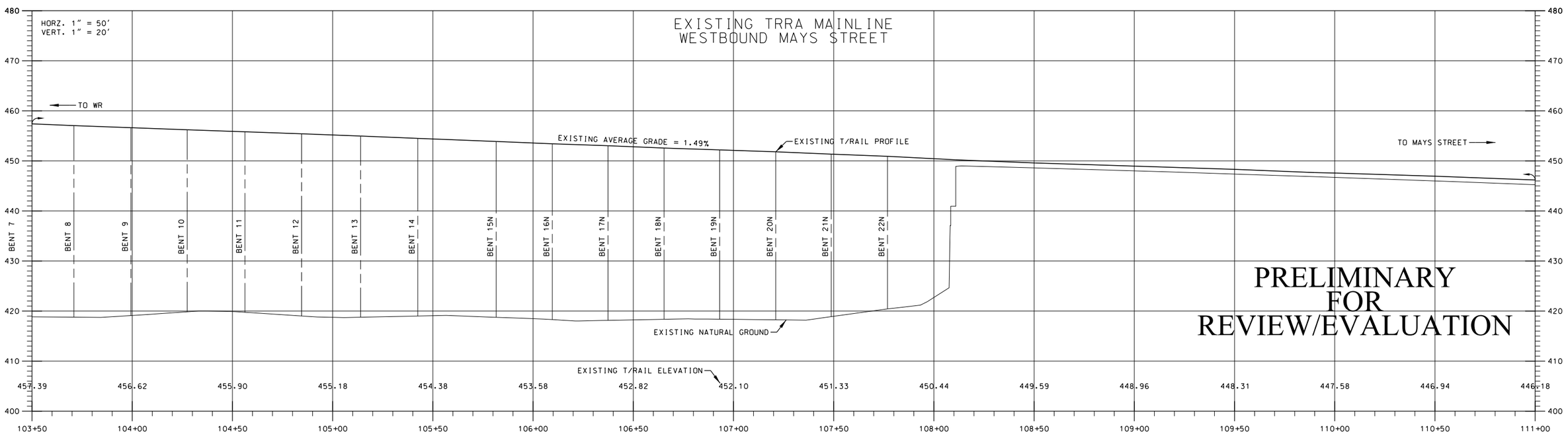
PROFILE SHEET

NO.	DATE	REVISION (THIS DRAWING IS INTENDED TO BE PLOTTED ON 11 X 17 INCH PAPER)	BY
1	11/07/11	REVISED STATIONING ON WB BREMEN STREET TRACK	JPG/RSS

PROPOSED TRACK CHANGES TO IMPROVE
FOR AMTRAK ON TRRA SYSTEM
IN ST. LOUIS, MISSOURI

TERMINAL RAILROAD
ASSOCIATION
OF ST. LOUIS





PRELIMINARY
FOR
REVIEW/EVALUATION

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Jpg 11/7/2011 11:26 PM Sheet 12 - Profile Sheet 3

DESIGN NINE
ENGINEERING SERVICES FOR RAILROADS AND INDUSTRY
11166 TESSON FERRY ROAD
SUITE 100
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(314) 729-7600

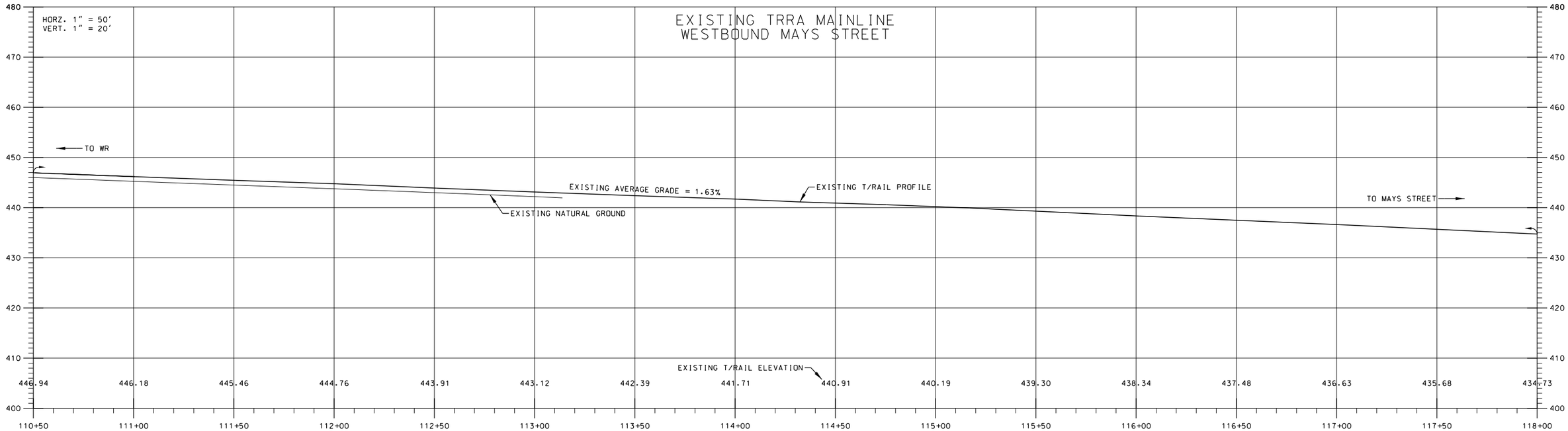
Drawn By:	JPG	Scale:	AS SHOWN
Checked By:	RSS	Sheet	12 of 20
Drawing:	11086-1	Date:	09/21/2011

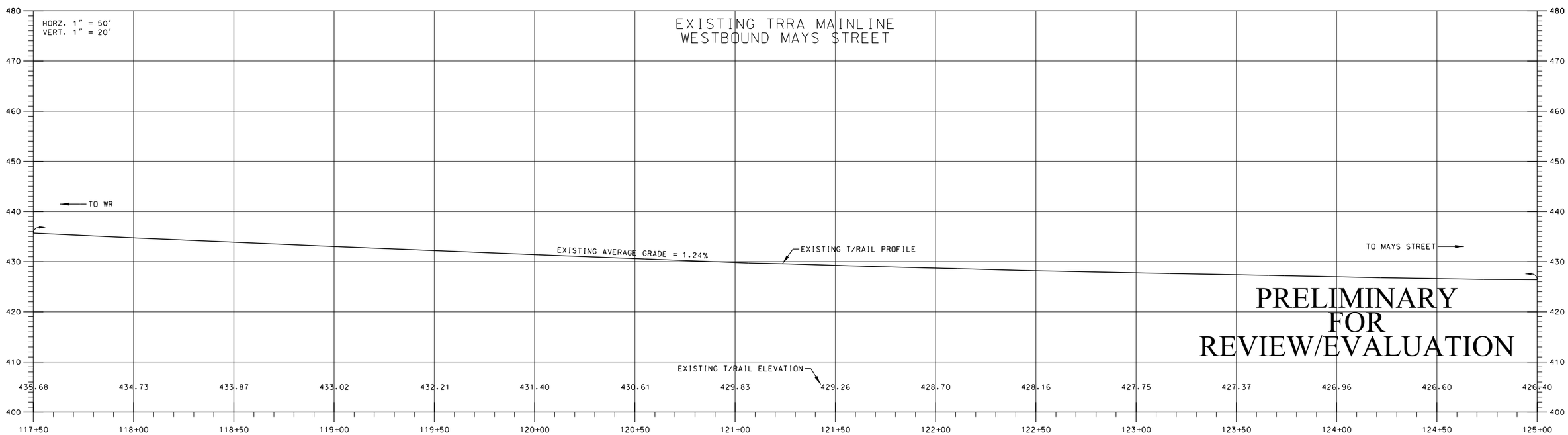
PROFILE SHEET

NO.	DATE	REVISION (THIS DRAWING IS INTENDED TO BE PLOTTED ON 11 X 17 INCH PAPER)	BY
1	11/07/11	REVISED STATIONING ON WB BREMEN STREET TRACK	JPG/RSS

PROPOSED TRACK CHANGES TO IMPROVE
FOR AMTRAK ON TRRA SYSTEM
IN ST. LOUIS, MISSOURI

TERMINAL RAILROAD
ASSOCIATION
OF ST. LOUIS





PRELIMINARY
FOR
REVIEW/EVALUATION

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Jpg 11/7/2011 11:40 PM Sheet 13 - Profile Sheet 4

DESIGN NINE
ENGINEERING SERVICES FOR RAILROADS AND INDUSTRY
11166 TESSON FERRY ROAD
SUITE 100
ST. LOUIS MO, 63123-6966
(314) 729-7600

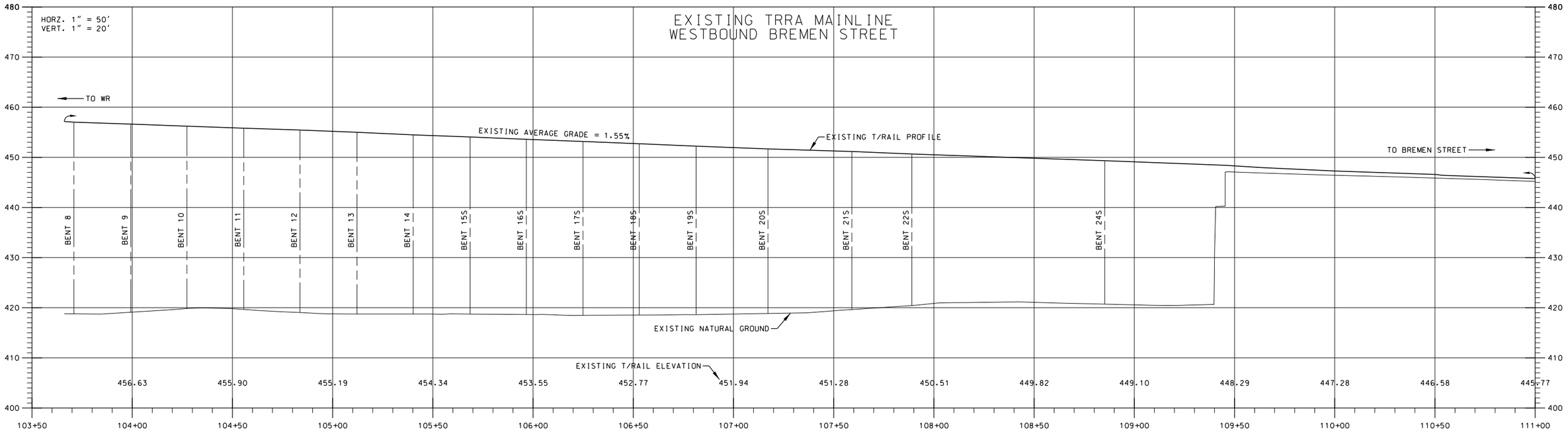
Drawn By:	JPG	Scale:	AS SHOWN
Checked By:	RSS	Sheet	13 of 20
Drawing:	11086-1	Date:	09/21/2011

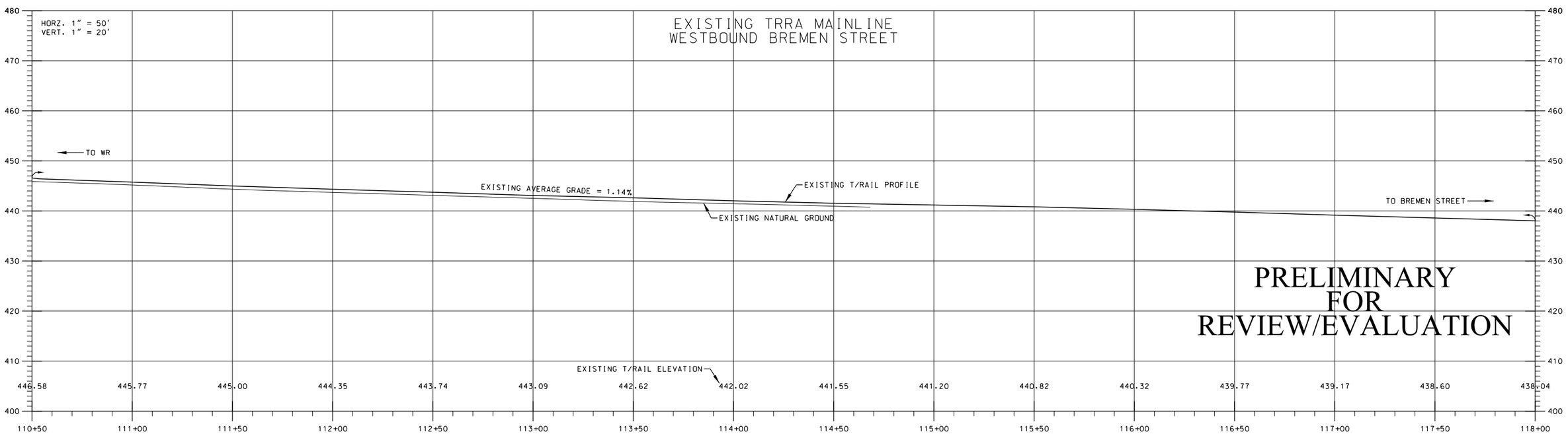
PROFILE SHEET

NO.	DATE	REVISION (THIS DRAWING IS INTENDED TO BE PLOTTED ON 11 X 17 INCH PAPER)	BY
1	11/07/11	REVISED STATIONING ON WB BREMEN STREET TRACK	JPG/RSS

PROPOSED TRACK CHANGES TO IMPROVE
FOR AMTRAK ON TRRA SYSTEM
IN ST. LOUIS, MISSOURI

TERMINAL RAILROAD
ASSOCIATION
OF ST. LOUIS





PRELIMINARY
FOR
REVIEW/EVALUATION

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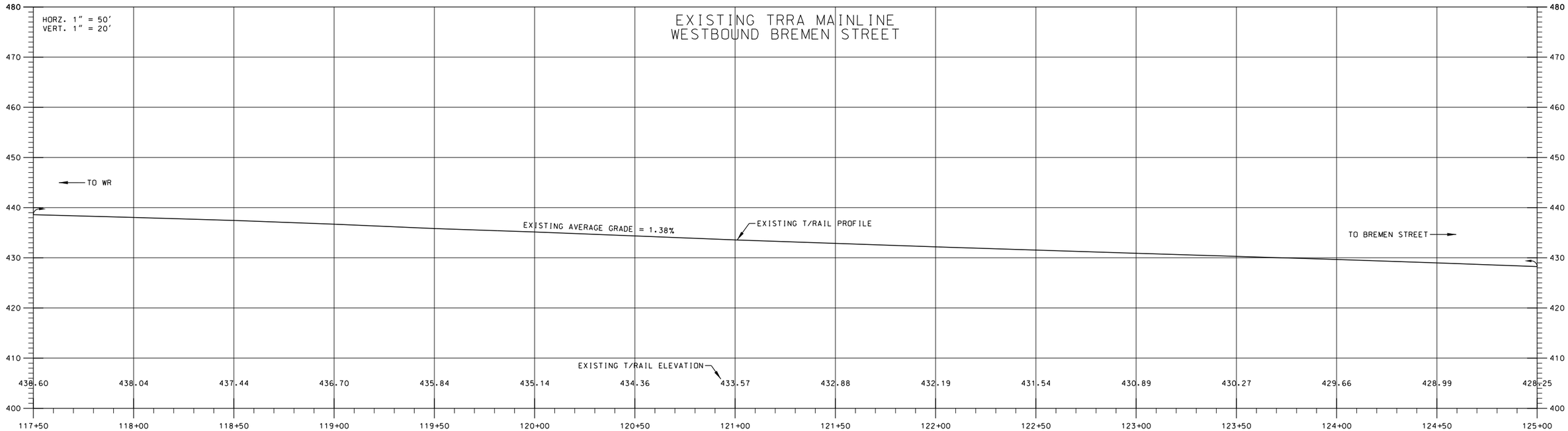
Jpg 11/7/2011 11:53 PM Sheet 14 - Profile Sheet 5

DESIGN NINE ENGINEERING SERVICES FOR RAILROADS AND INDUSTRY	11166 TESSON FERRY ROAD SUITE 100 ST. LOUIS MO, 63123-6966 (314) 729-7600	Drawn By: JPG	Scale: AS SHOWN	PROFILE SHEET	1	11/07/11	REVISED STATIONING ON WB BREMEN STREET TRACK	JPG/RSS
		Checked By: RSS	Sheet 14 of 20		NO.	DATE	REVISION (THIS DRAWING IS INTENDED TO BE PLOTTED ON 11 X 17 INCH PAPER)	BY
		Drawing: 11086-1	Date: 09/21/2011					

PROPOSED TRACK CHANGES TO IMPROVE
FOR AMTRAK ON TRRA SYSTEM
IN ST. LOUIS, MISSOURI

TERMINAL RAILROAD
ASSOCIATION
OF ST. LOUIS



PRELIMINARY
FOR
REVIEW/EVALUATION

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Jpg 11/7/2011 11:24:04 PM Sheet 15 - Profile Sheet 6

DESIGN NINE
ENGINEERING SERVICES FOR RAILROADS AND INDUSTRY
11166 TESSON FERRY ROAD
SUITE 100
ST. LOUIS MO, 63123-6966
(314) 729-7600

Drawn By:	JPG	Scale:	AS SHOWN
Checked By:	RSS	Sheet	15 of 20
Drawing:	11086-1	Date:	09/21/2011

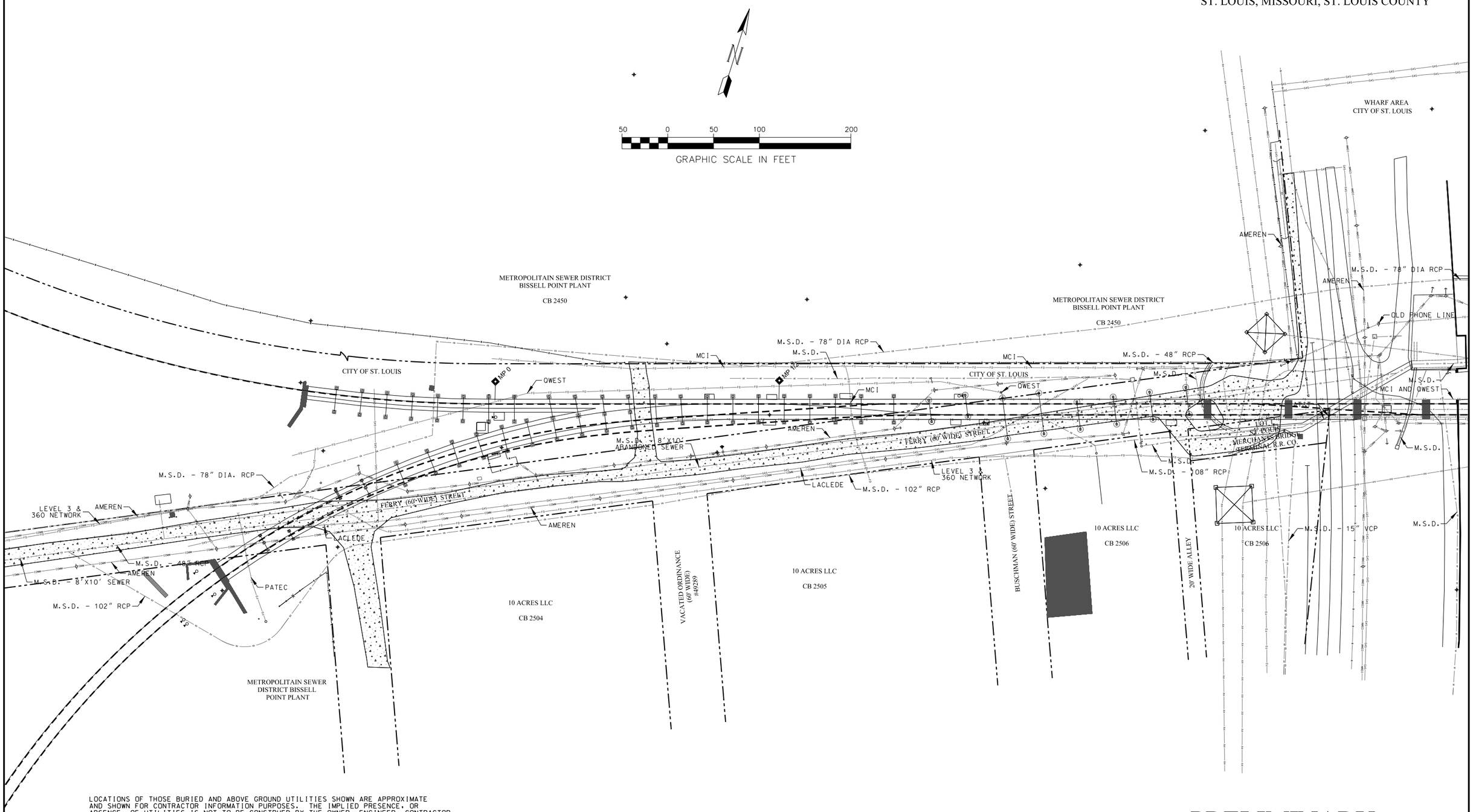
PROFILE SHEET

NO.	DATE	REVISION (THIS DRAWING IS INTENDED TO BE PLOTTED ON 11 X 17 INCH PAPER)	BY
1	11/07/11	REVISED STATIONING ON WB BREMEN STREET TRACK	JPG/RSS

PROPOSED TRACK CHANGES TO IMPROVE
FOR AMTRAK ON TRRA SYSTEM
IN ST. LOUIS, MISSOURI

TERMINAL RAILROAD
ASSOCIATION
OF ST. LOUIS

ST. LOUIS, MISSOURI, ST. LOUIS COUNTY



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NOTE: ORDINANCE #14797 STIPULATES AGREEMENT FOR MERCHANT BRIDGE OWNERSHIP WITH THE CITY OF ST. LOUIS, MISSOURI.

PRELIMINARY FOR REVIEW/EVALUATION

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ENGINEERING SERVICES FOR RAILROADS AND INDUSTRY
11166 TESSON FERRY ROAD
SUITE 100
ST. LOUIS MO, 63123-6966
(314) 729-7600

Drawn By:	JPG	Scale: 1" = 100'	
Checked By:	RSS	Sheet 16 of 20	
Drawing:	11086-1	Date: 09/21/2011	

PLAN OVERVIEW

NO.	DATE	REVISION (THIS DRAWING IS INTENDED TO BE PLOTTED ON 11 X 17 INCH PAPER)	BY
1	11/07/11	REVISED STATIONING ON WB BREMEN STREET TRACK	JPG/RSS

PROPOSED TRACK CHANGES TO IMPROVE FOR AMTRAK ON TRRA SYSTEM IN ST. LOUIS, MISSOURI

TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS

S:\20\TRRA\Merchants Bridge West Approach\Design\11086.dgn
Jpg 11/7/2011 11:22:23 PM Sheet 16 - Utility Sheet 1

BENT B

WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	98+46.58	465.10	T/RAIL N.	98+46.58	465.07
T/RAIL S.	98+46.58	465.10	T/RAIL S.	98+46.58	465.06
T/TIE A	----	464.36	T/TIE E	----	464.35
T/TIE B	----	464.43	T/TIE F	----	464.40
T/TIE C	----	464.36	T/TIE G	----	464.36
T/TIE D	----	464.42	T/TIE H	----	464.40
T/STEEL 1	----	463.66	T/STEEL 5	----	463.62
T/STEEL 2	----	463.71	T/STEEL 6	----	463.66
T/STEEL 3	----	463.64	T/STEEL 7	----	464.64
T/STEEL 4	----	463.70	T/STEEL 8	----	N/A
			T/STEEL 9	----	463.65
			T/STEEL 10	----	N/A
			T/STEEL 11	----	463.64
			T/STEEL 12	----	463.65

BENT F

WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	100+06.60	462.63	T/RAIL N.	100+06.60	462.58
T/RAIL S.	100+06.60	462.63	T/RAIL S.	100+06.60	462.55
T/TIE A	----	461.90	T/TIE E	----	461.86
T/TIE B	----	461.93	T/TIE F	----	461.89
T/TIE C	----	461.93	T/TIE G	----	461.84
T/TIE D	----	461.92	T/TIE H	----	461.85
T/STEEL 1	----	461.17	T/STEEL 5	----	461.15
T/STEEL 2	----	461.20	T/STEEL 6	----	461.17
T/STEEL 3	----	461.20	T/STEEL 7	----	461.13
T/STEEL 4	----	461.17	T/STEEL 8	----	461.13
			T/STEEL 9	----	461.11
			T/STEEL 10	----	461.10
			T/STEEL 11	----	461.09
			T/STEEL 12	----	461.09

BENT 1

WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	101+67.10	460.34	T/RAIL N.	101+67.10	460.33
T/RAIL S.	101+67.10	460.31	T/RAIL S.	101+67.10	460.28
T/TIE A	----	459.62	T/TIE E	----	459.62
T/TIE B	----	459.67	T/TIE F	----	459.66
T/TIE C	----	459.63	T/TIE G	----	459.58
T/TIE D	----	459.66	T/TIE H	----	459.62
T/STEEL 1	----	458.90	T/STEEL 5	----	458.87
T/STEEL 2	----	458.95	T/STEEL 6	----	458.95
T/STEEL 3	----	458.90	T/STEEL 7	----	458.87
T/STEEL 4	----	458.93	T/STEEL 8	----	458.91
			T/STEEL 9	----	N/A
			T/STEEL 10	----	458.86
			T/STEEL 11	----	458.85
			T/STEEL 12	----	458.87

BENT 5

WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	102+86.70	458.40	T/RAIL N.	102+86.70	458.36
T/RAIL S.	102+86.70	458.41	T/RAIL S.	102+86.70	458.38
T/TIE A	----	457.68	T/TIE E	----	457.67
T/TIE B	----	457.72	T/TIE F	----	457.69
T/TIE C	----	457.68	T/TIE G	----	457.69
T/TIE D	----	457.74	T/TIE H	----	457.71
T/STEEL 1	----	456.98	T/STEEL 5	----	456.94
T/STEEL 2	----	456.98	T/STEEL 6	----	456.98
T/STEEL 3	----	N/A	T/STEEL 7	----	N/A
T/STEEL 4	----	457.00	T/STEEL 8	----	457.03
			T/STEEL 9	----	456.92
			T/STEEL 10	----	456.95
			T/STEEL 11	----	456.99
			T/STEEL 12	----	456.96

BENT 7

WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	103+42.60	457.51	T/RAIL N.	103+42.60	457.50
T/RAIL S.	103+42.60	457.50	T/RAIL S.	103+42.60	457.53
	----	456.81		----	456.80
	----	456.83		----	456.83
	----	456.82		----	456.83
	----	456.82		----	456.85
T/STEEL 1	----	456.09	T/STEEL 5	----	456.10
T/STEEL 2	----	456.09	T/STEEL 6	----	456.07
T/STEEL 3	----	456.07	T/STEEL 7	----	N/A
T/STEEL 4	----	456.08	T/STEEL 8	----	N/A
			T/STEEL 9	----	N/A
			T/STEEL 10	----	N/A
			T/STEEL 11	----	456.12
			T/STEEL 12	----	456.11

BENT C

WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	98+85.88	464.42	T/RAIL N.	98+85.88	464.41
T/RAIL S.	98+85.88	464.46	T/RAIL S.	98+85.88	464.41
T/TIE A	----	463.70	T/TIE E	----	463.71
T/TIE B	----	463.72	T/TIE F	----	463.73
T/TIE C	----	463.74	T/TIE G	----	463.71
T/TIE D	----	463.75	T/TIE H	----	463.73
T/STEEL 1	----	462.96	T/STEEL 5	----	462.95
T/STEEL 2	----	462.97	T/STEEL 6	----	462.97
T/STEEL 3	----	462.85	T/STEEL 7	----	462.99
T/STEEL 4	----	463.01	T/STEEL 8	----	463.04
			T/STEEL 9	----	462.98
			T/STEEL 10	----	463.03
			T/STEEL 11	----	462.94
			T/STEEL 12	----	462.99

BENT G

WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	100+47.00	462.02	T/RAIL N.	100+47.00	462.00
T/RAIL S.	100+47.00	462.04	T/RAIL S.	100+47.00	461.99
T/TIE A	----	461.29	T/TIE E	----	461.28
T/TIE B	----	461.33	T/TIE F	----	461.33
T/TIE C	----	461.32	T/TIE G	----	461.27
T/TIE D	----	461.34	T/TIE H	----	461.30
T/STEEL 1	----	460.55	T/STEEL 5	----	460.57
T/STEEL 2	----	460.62	T/STEEL 6	----	460.60
T/STEEL 3	----	460.58	T/STEEL 7	----	460.60
T/STEEL 4	----	460.65	T/STEEL 8	----	460.58
			T/STEEL 9	----	460.56
			T/STEEL 10	----	460.60
			T/STEEL 11	----	460.52
			T/STEEL 12	----	460.57

BENT 2

WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	102+02.10	459.76	T/RAIL N.	102+02.10	459.74
T/RAIL S.	102+02.10	459.72	T/RAIL S.	102+02.10	459.75
T/TIE A	----	459.07	T/TIE E	----	459.05
T/TIE B	----	459.09	T/TIE F	----	459.06
T/TIE C	----	459.04	T/TIE G	----	459.06
T/TIE D	----	459.07	T/TIE H	----	459.07
T/STEEL 1	----	458.35	T/STEEL 5	----	458.32
T/STEEL 2	----	458.37	T/STEEL 6	----	N/A
T/STEEL 3	----	458.31	T/STEEL 7	----	458.33
T/STEEL 4	----	458.34	T/STEEL 8	----	458.35
			T/STEEL 9	----	458.33
			T/STEEL 10	----	458.33
			T/STEEL 11	----	458.34
			T/STEEL 12	----	458.31

BENT 6

WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	103+14.50	457.97	T/RAIL N.	103+14.50	457.98
T/RAIL S.	103+14.50	457.93	T/RAIL S.	103+14.50	457.99
T/TIE A	----	457.26	T/TIE E	----	457.28
T/TIE B	----	457.27	T/TIE F	----	457.30
T/TIE C	----	457.26	T/TIE G	----	457.28
T/TIE D	----	457.26	T/TIE H	----	457.30
T/STEEL 1	----	456.54	T/STEEL 5	----	456.56
T/STEEL 2	----	456.56	T/STEEL 6	----	456.58
T/STEEL 3	----	456.55	T/STEEL 7	----	N/A
T/STEEL 4	----	456.54	T/STEEL 8	----	N/A
			T/STEEL 9	----	N/A
			T/STEEL 10	----	N/A
			T/STEEL 11	----	456.59
			T/STEEL 12	----	456.58

BENT 8

WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	103+70.60	457.05	T/RAIL N.	103+70.60	457.01
T/RAIL S.	103+70.60	457.02	T/RAIL S.	103+70.60	457.01
	----	456.35		----	456.32
	----	456.36		----	456.32
	----	456.34		----	456.31
	----	456.34		----	456.32
T/STEEL 1	----	455.63	T/STEEL 5	----	455.56
T/STEEL 2	----	455.65	T/STEEL 6	----	455.58
T/STEEL 3	----	455.62	T/STEEL 7	----	N/A
T/STEEL 4	----	455.61	T/STEEL 8	----	N/A
			T/STEEL 9	----	N/A
			T/STEEL 10	----	N/A
			T/STEEL 11	----	455.59
			T/STEEL 12	----	455.60

BENT D

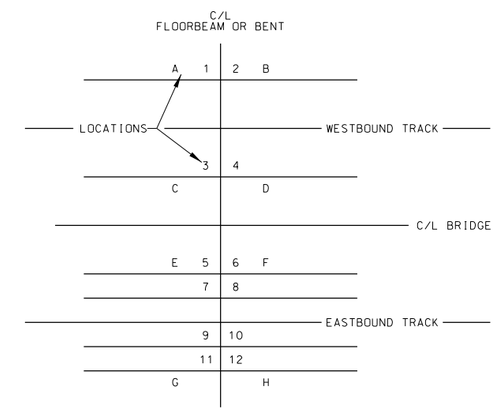
WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	99+26.20	463.87	T/RAIL N.	99+26.20	463.82
T/RAIL S.	99+26.20	463.84	T/RAIL S.	99+26.20	463.84
T/TIE A	----	463.13	T/TIE E	----	463.10
T/TIE B	----	463.16	T/TIE F	----	463.11
T/TIE C	----	463.14	T/TIE G	----	463.13
T/TIE D	----	463.15	T/TIE H	----	463.15
T/STEEL 1	----	462.43	T/STEEL 5	----	462.37
T/STEEL 2	----	462.46	T/STEEL 6	----	462.39
T/STEEL 3	----	462.38	T/STEEL 7	----	462.39
T/STEEL 4	----	463.43	T/STEEL 8	----	462.40
			T/STEEL 9	----	462.38
			T/STEEL 10	----	462.42
			T/STEEL 11	----	462.40
			T/STEEL 12	----	462.43

BENT H

WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	100+86.60	461.45	T/RAIL N.	100+86.60	461.43
T/RAIL S.	100+86.60	461.46	T/RAIL S.	100+86.60	461.41
T/TIE A	----	460.73	T/TIE E	----	460.72
T/TIE B	----	460.76	T/TIE F	----	460.72
T/TIE C	----	460.72	T/TIE G	----	460.72
T/TIE D	----	460.75	T/TIE H	----	460.71
T/STEEL 1	----	460.00	T/STEEL 5	----	459.97
T/STEEL 2	----	460.02	T/STEEL 6	----	459.97
T/STEEL 3	----	459.98	T/STEEL 7	----	459.96
T/STEEL 4	----	459.99	T/STEEL 8	----	459.97
			T/STEEL 9	----	459.99
			T/STEEL 10	----	459.95
			T/STEEL 11	----	459.99
			T/STEEL 12	----	459.96

BENT 3

WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	102+30.50	459.32	T/RAIL N.	102+30.50	459.33
T/RAIL S.	102+30.50	459.32	T/RAIL S.	102+30.50	459.33
T/TIE A	----	458.63	T/TIE E	----	458.65
T/TIE B	----	458.63	T/TIE F	----	458.65
T/TIE C	----	458.64	T/TIE G	----	458.66
T/TIE D	----	458.64	T/TIE H	----	458.65
T/STEEL 1	----	457.93	T/STEEL 5	----	457.93
T/STEEL 2	----	457.91	T/STEEL 6	----	457.94
T/STEEL 3	----	457.93	T/STEEL 7	----	457.91
T/STEEL 4	----	457.91	T/STEEL 8	----	457.92
			T/STEEL 9	----	N/A
			T/STEEL 10	----	457.91
			T/STEEL 11	----	457.94
			T/STEEL 12	----	457.92



BENT E

WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	99+66.20	463.27	T/RAIL N.	99+66.20	463.27
T/RAIL S.	99+66.20	463.23	T/RAIL S.	99+66.20	463.27
T/TIE A	----	462.53	T/TIE E	----	462.56
T/TIE B	----	463.58	T/TIE F	----	462.58
T/TIE C	----	463.52	T/TIE G	----	462.55
T/TIE D	----	463.52	T/TIE H	----	462.58
T/STEEL 1	----	461.82	T/STEEL 5	----	461.81
T/STEEL 2	----	461.87	T/STEEL 6	----	461.85
T/STEEL 3	----	461.77	T/STEEL 7	----	461.80
T/STEEL 4	----	461.77	T/STEEL 8	----	461.83
			T/STEEL 9	----	461.82
			T/STEEL 10	----	461.83
			T/STEEL 11	----	461.81
			T/STEEL 12	----	461.85

BENT K

WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	101+27.70	460.87	T/RAIL N.	101+27.70	460.87
T/RAIL S.	101+27.70	460.83	T/RAIL S.	101+27.70	460.86
T/TIE A	----	460.12	T/TIE E	----	460.18
T/TIE B	----	460.17	T/TIE F	----	460.19
T/TIE C	----	460.14	T/TIE G	----	460.19
T/TIE D	----	460.13	T/TIE H	----	460.19
T/STEEL 1	----	459.40	T/STEEL 5	----	459.45
T/STEEL 2	----	459.40	T/STEEL 6	----	459.45
T/STEEL 3	----	459.38	T/STEEL 7	----	459.45
T/STEEL 4	----	459.37	T/STEEL 8	----	459.44
			T/STEEL 9	----	459.46
			T/STEEL 10	----	459.47
			T/STEEL 11	----	459.47
			T/STEEL 12	----	459.46

BENT 4

WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	102+58.60	458.90	T/RAIL N.	102+58.60	458.88
T/RAIL S.	102+58.60	458.90	T/RAIL S.	102+58.60	458.89
T/TIE A	----	458.22	T/TIE E	----	458.18
T/TIE B	----	458.23	T/TIE F	----	458.22
T/TIE C	----	458.22	T/TIE G	----	458.18
T/TIE D	----	458.22	T/TIE H	----	458.21
T/STEEL 1	----	457.46	T/STEEL 5	----	457.46
T/STEEL 2	----	457.50	T/STEEL 6	----	457.49
T/STEEL 3	----	457.47	T/STEEL 7	----	457.48
T/STEEL 4	----	N/A	T/STEEL 8	----	457.50
			T/STEEL 9	----	457.46
			T/STEEL 10	----	457.50
			T/STEEL 11	----	457.46
			T/STEEL 12	----	457.49

LEGEND

N/A = UNABLE TO GET AN ELEVATION AT THIS LOCATION

NOTE: TOP OF RAIL ELEVATIONS TAKEN NEAR C/L OF FLOORBEAM OR C/L OF BENT. TOP OF TIE ELEVATIONS TAKEN ON EITHER SIDE OF C/L OF FLOORBEAM OR C/L OF BENT

PRELIMINARY FOR REVIEW/EVALUATION

DESIGN NINE
ENGINEERING SERVICES FOR RAILROADS AND INDUSTRY
11166 TESSON FERRY ROAD
SUITE 100
ST. LOUIS MO, 63123-6966
(314) 729-7600

Drawn By:	JPG	Scale:	NONE
Checked By:	RSS	Sheet	17 of 20
Drawing:	11086-1	Date:	09/21/2011

DETAIL SHEET

NO.	DATE	REVISION (THIS DRAWING IS INTENDED TO BE PLOTTED ON 11 X 17 INCH PAPER)	BY
1	11/07/11	REVISED STATIONING ON WB BREMEN STREET TRACK	JPG/RSS

PROPOSED TRACK CHANGES TO IMPROVE FOR AMTRAK ON TRRA SYSTEM IN ST. LOUIS, MISSOURI

TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS

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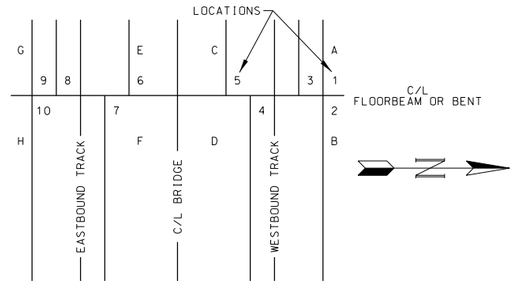
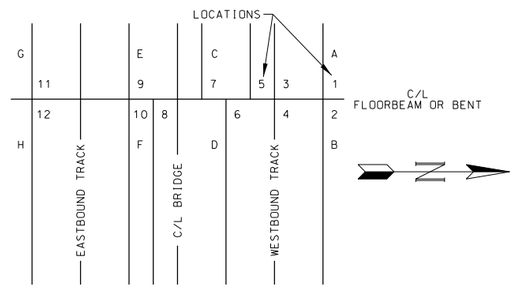
jpg 11/7/2011 11:23:37 PM Sheet 17 - Detail Sheet 1

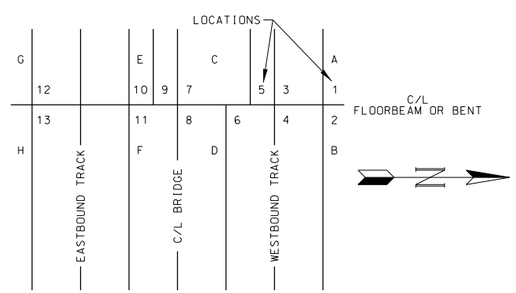
BENT 9					
WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	103+98.80	456.63	T/RAIL N.	103+98.80	456.71
T/RAIL S.	103+98.80	456.60	T/RAIL S.	103+98.80	456.65
T/TIE A	----	455.95	T/TIE E	----	455.98
T/TIE B	----	455.95	T/TIE F	----	456.02
T/TIE C	----	455.95	T/TIE G	----	455.99
T/TIE D	----	455.94	T/TIE H	----	455.97
T/STEEL 1	----	455.25	T/STEEL 6	----	455.25
T/STEEL 2	----	455.23	T/STEEL 7	----	455.29
T/STEEL 3	----	455.24	T/STEEL 8	----	455.22
T/STEEL 4	----	455.15	T/STEEL 9	----	455.22
T/STEEL 5	----	455.23	T/STEEL 10	----	455.25



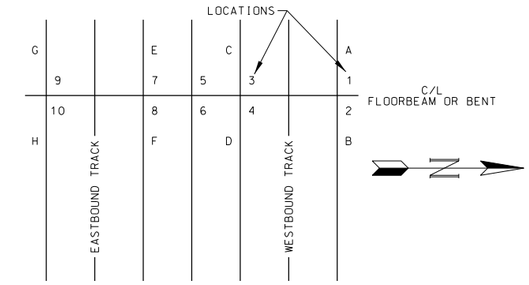
BENT 10					
WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	104+26.80	456.21	T/RAIL N.	104+26.80	456.26
T/RAIL S.	104+26.80	456.22	T/RAIL S.	104+26.80	456.21
T/TIE A	----	455.52	T/TIE E	----	455.56
T/TIE B	----	455.54	T/TIE F	----	455.59
T/TIE C	----	455.52	T/TIE G	----	455.52
T/TIE D	----	455.54	T/TIE H	----	455.56
T/STEEL 1	----	454.81	T/STEEL 7	----	454.78
T/STEEL 2	----	454.80	T/STEEL 8	----	454.80
T/STEEL 3	----	454.80	T/STEEL 9	----	454.79
T/STEEL 4	----	454.79	T/STEEL 10	----	454.80
T/STEEL 5	----	454.78	T/STEEL 11	----	454.79
T/STEEL 6	----	454.79	T/STEEL 12	----	454.80



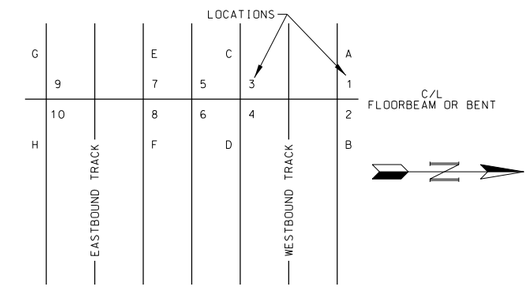
BENT 11					
WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	104+55.20	455.82	T/RAIL N.	104+55.20	455.87
T/RAIL S.	104+55.20	455.82	T/RAIL S.	104+55.20	455.86
T/TIE A	----	455.11	T/TIE E	----	455.18
T/TIE B	----	455.15	T/TIE F	----	455.20
T/TIE C	----	455.11	T/TIE G	----	455.16
T/TIE D	----	455.15	T/TIE H	----	455.18
T/STEEL 1	----	454.41	T/STEEL 7	----	454.39
T/STEEL 2	----	454.44	T/STEEL 8	----	454.43
T/STEEL 3	----	454.36	T/STEEL 9	----	454.42
T/STEEL 4	----	N/A	T/STEEL 10	----	454.42
T/STEEL 5	----	454.42	T/STEEL 11	----	454.38
T/STEEL 6	----	454.43	T/STEEL 12	----	454.44
			T/STEEL 13	----	454.45



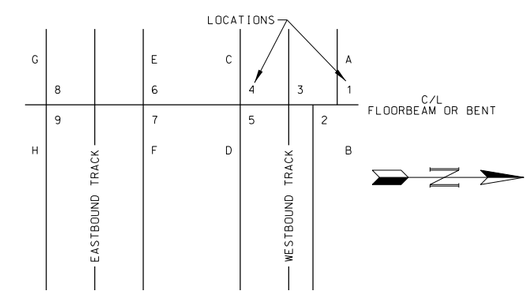
BENT 12 (BREMEN STREET LEG ONLY)					
WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	104+82.90	455.46	T/RAIL N.	104+82.90	455.48
T/RAIL S.	104+82.90	455.45	T/RAIL S.	104+82.90	455.45
T/TIE A	----	454.72	T/TIE E	----	454.79
T/TIE B	----	454.78	T/TIE F	----	454.80
T/TIE C	----	454.73	T/TIE G	----	454.78
T/TIE D	----	454.78	T/TIE H	----	454.78
T/STEEL 1	----	454.03	T/STEEL 7	----	454.00
T/STEEL 2	----	454.05	T/STEEL 8	----	454.06
T/STEEL 3	----	454.02	T/STEEL 9	----	454.04
T/STEEL 4	----	454.04	T/STEEL 10	----	454.05
T/STEEL 5	----	454.01			
T/STEEL 6	----	454.03			



BENT 13 (BREMEN STREET LEG ONLY)					
WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	105+11.30	455.01	T/RAIL N.	105+11.30	455.02
T/RAIL S.	105+11.30	455.00	T/RAIL S.	105+11.30	454.98
T/TIE A	----	454.34	T/TIE E	----	454.29
T/TIE B	----	454.33	T/TIE F	----	454.32
T/TIE C	----	454.33	T/TIE G	----	454.26
T/TIE D	----	454.33	T/TIE H	----	454.31
T/STEEL 1	----	453.59	T/STEEL 7	----	453.54
T/STEEL 2	----	453.58	T/STEEL 8	----	453.59
T/STEEL 3	----	453.61	T/STEEL 9	----	453.54
T/STEEL 4	----	453.60	T/STEEL 10	----	453.56
T/STEEL 5	----	453.57			
T/STEEL 6	----	453.61			



BENT 14 (BREMEN STREET LEG ONLY)					
WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	105+39.30	454.50	T/RAIL N.	105+39.30	454.65
T/RAIL S.	105+39.30	454.49	T/RAIL S.	105+39.30	454.59
T/TIE A	----	453.79	T/TIE E	----	453.96
T/TIE B	----	453.83	T/TIE F	----	453.96
T/TIE C	----	453.80	T/TIE G	----	453.91
T/TIE D	----	453.82	T/TIE H	----	453.93
T/STEEL 1	----	453.14	T/STEEL 6	----	453.17
T/STEEL 2	----	453.17	T/STEEL 7	----	453.20
T/STEEL 3	----	453.14	T/STEEL 8	----	453.14
T/STEEL 4	----	453.14	T/STEEL 9	----	453.19
T/STEEL 5	----	453.16			



LEGEND

N/A = UNABLE TO GET AN ELEVATION AT THIS LOCATION

NOTE: TOP OF RAIL ELEVATIONS TAKEN NEAR C/L OF FLOORBEAM OR C/L OF BENT. TOP OF TIE ELEVATIONS TAKEN ON EITHER SIDE OF C/L OF FLOORBEAM OR C/L OF BENT

PRELIMINARY FOR REVIEW/EVALUATION

DESIGN NINE
ENGINEERING SERVICES FOR RAILROADS AND INDUSTRY
11166 TESSON FERRY ROAD
SUITE 100
ST. LOUIS MO, 63123-6966
(314) 729-7600

Drawn By:	JPG	Scale:	NONE
Checked By:	RSS	Sheet	18 of 20
Drawing:	11086-1	Date:	09/21/2011

DETAIL SHEET

NO.	DATE	REVISION (THIS DRAWING IS INTENDED TO BE PLOTTED ON 11 X 17 INCH PAPER)	BY
1	11/07/11	REVISED STATIONING ON WB BREMEN STREET TRACK	JPG/RSS

PROPOSED TRACK CHANGES TO IMPROVE FOR AMTRAK ON TRRA SYSTEM IN ST. LOUIS, MISSOURI

TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS

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Jpg 11/7/2011 11:25:50 PM Sheet 18 - Detail Sheet 2

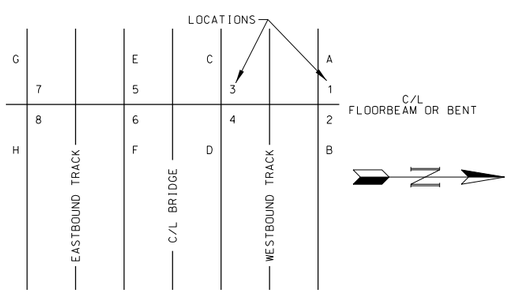
BENT 15S (BREMEN STREET LEG ONLY)					
WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	105+67.50	454.10	T/RAIL N.	105+67.50	454.20
T/RAIL S.	105+67.50	454.06	T/RAIL S.	105+67.50	454.16
T/TIE A	----	453.41	T/TIE E	----	453.50
T/TIE B	----	453.41	T/TIE F	----	453.51
T/TIE C	----	453.38	T/TIE G	----	453.47
T/TIE D	----	453.39	T/TIE H	----	453.47
T/STEEL 1	----	452.71	T/STEEL 5	----	452.73
T/STEEL 2	----	452.71	T/STEEL 6	----	452.73
T/STEEL 3	----	452.72	T/STEEL 7	----	452.73
T/STEEL 4	----	452.73	T/STEEL 8	----	452.75

BENT 16S (BREMEN STREET LEG ONLY)					
WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	105+95.60	453.65	T/RAIL N.	105+95.60	453.75
T/RAIL S.	105+95.60	453.60	T/RAIL S.	105+95.60	453.70
T/TIE A	----	452.95	T/TIE E	----	453.03
T/TIE B	----	452.95	T/TIE F	----	453.04
T/TIE C	----	452.92	T/TIE G	----	453.01
T/TIE D	----	452.93	T/TIE H	----	453.01
T/STEEL 1	----	452.27	T/STEEL 5	----	452.29
T/STEEL 2	----	452.24	T/STEEL 6	----	452.27
T/STEEL 3	----	452.26	T/STEEL 7	----	452.29
T/STEEL 4	----	452.26	T/STEEL 8	----	452.26

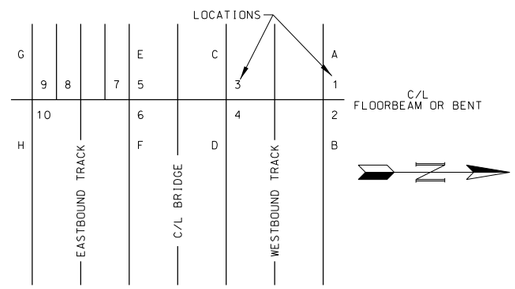
BENT 17S (BREMEN STREET LEG ONLY)					
WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	106+23.80	453.20	T/RAIL N.	106+23.80	453.29
T/RAIL S.	106+23.80	453.16	T/RAIL S.	106+23.80	453.25
T/TIE A	----	452.50	T/TIE E	----	452.60
T/TIE B	----	452.52	T/TIE F	----	452.60
T/TIE C	----	452.47	T/TIE G	----	452.56
T/TIE D	----	452.49	T/TIE H	----	452.57
T/STEEL 1	----	451.82	T/STEEL 5	----	451.82
T/STEEL 2	----	451.81	T/STEEL 6	----	451.83
T/STEEL 3	----	451.80	T/STEEL 7	----	451.83
T/STEEL 4	----	451.83	T/STEEL 8	----	451.84

BENT 18S (BREMEN STREET LEG ONLY)					
WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	106+51.80	452.77	T/RAIL N.	106+51.80	452.84
T/RAIL S.	106+51.80	452.72	T/RAIL S.	106+51.80	452.80
T/TIE A	----	452.06	T/TIE E	----	452.12
T/TIE B	----	452.09	T/TIE F	----	452.17
T/TIE C	----	452.03	T/TIE G	----	452.10
T/TIE D	----	452.06	T/TIE H	----	452.14
T/STEEL 1	----	451.38	T/STEEL 5	----	451.36
T/STEEL 2	----	451.37	T/STEEL 6	----	451.39
T/STEEL 3	----	451.36	T/STEEL 7	----	451.34
T/STEEL 4	----	451.41	T/STEEL 8	----	451.36

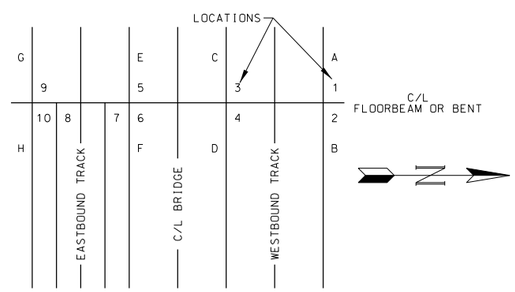
BENT 19S (BREMEN STREET LEG ONLY)					
WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	106+80.10	452.29	T/RAIL N.	106+80.10	452.36
T/RAIL S.	106+80.10	452.23	T/RAIL S.	106+80.10	452.30
T/TIE A	----	451.59	T/TIE E	----	451.63
T/TIE B	----	451.62	T/TIE F	----	451.68
T/TIE C	----	451.55	T/TIE G	----	451.60
T/TIE D	----	451.58	T/TIE H	----	451.64
T/STEEL 1	----	450.88	T/STEEL 5	----	450.88
T/STEEL 2	----	450.94	T/STEEL 6	----	450.90
T/STEEL 3	----	450.86	T/STEEL 7	----	450.88
T/STEEL 4	----	450.89	T/STEEL 8	----	450.86



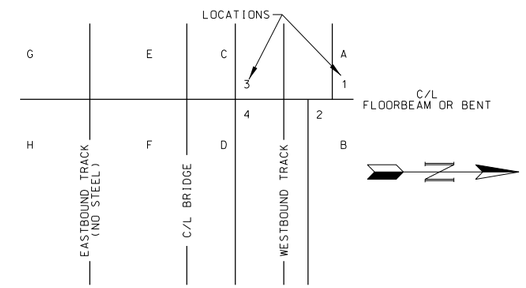
BENT 20S (BREMEN STREET LEG ONLY)					
WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	107+15.90	451.72	T/RAIL N.	107+15.90	451.87
T/RAIL S.	107+15.90	451.68	T/RAIL S.	107+15.90	451.84
T/TIE A	----	451.01	T/TIE E	----	451.15
T/TIE B	----	451.04	T/TIE F	----	451.19
T/TIE C	----	451.00	T/TIE G	----	451.13
T/TIE D	----	451.01	T/TIE H	----	451.19
T/STEEL 1	----	450.32	T/STEEL 5	----	450.36
T/STEEL 2	----	450.35	T/STEEL 6	----	450.45
T/STEEL 3	----	450.33	T/STEEL 7	----	450.40
T/STEEL 4	----	450.36	T/STEEL 8	----	450.36
			T/STEEL 9	----	450.42
			T/STEEL 10	----	450.47



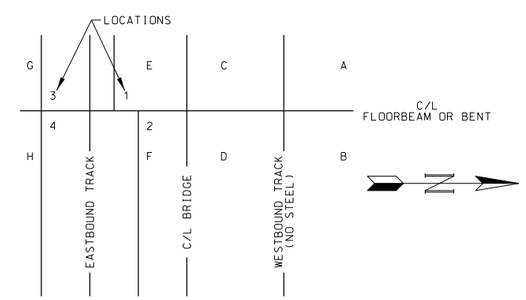
BENT 21S (BREMEN STREET LEG ONLY)					
WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	107+57.50	451.21	T/RAIL N.	107+57.50	451.21
T/RAIL S.	107+57.50	451.17	T/RAIL S.	107+57.50	451.16
T/TIE A	----	450.52	T/TIE E	----	450.49
T/TIE B	----	450.54	T/TIE F	----	450.50
T/TIE C	----	450.49	T/TIE G	----	450.48
T/TIE D	----	450.51	T/TIE H	----	450.48
T/STEEL 1	----	449.88	T/STEEL 5	----	449.74
T/STEEL 2	----	449.84	T/STEEL 6	----	449.79
T/STEEL 3	----	449.82	T/STEEL 7	----	449.77
T/STEEL 4	----	449.84	T/STEEL 8	----	449.77
			T/STEEL 9	----	449.73
			T/STEEL 10	----	449.75



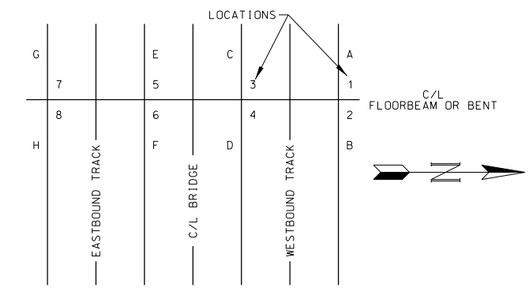
BENT 22S (BREMEN STREET LEG ONLY)					
WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	107+87.20	450.72	T/RAIL N.	107+87.20	450.80
T/RAIL S.	107+87.20	450.66	T/RAIL S.	107+87.20	450.74
T/TIE A	----	450.01	T/TIE E	----	450.11
T/TIE B	----	450.03	T/TIE F	----	450.10
T/TIE C	----	449.97	T/TIE G	----	450.06
T/TIE D	----	450.01	T/TIE H	----	450.06
T/STEEL 1	----	449.34			
T/STEEL 2	----	449.39			
T/STEEL 3	----	449.28			
T/STEEL 4	----	449.36			



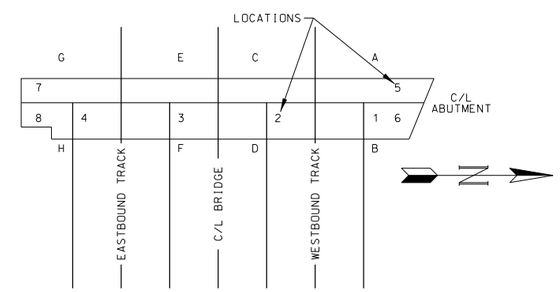
BENT 23S (BREMEN STREET LEG ONLY)					
WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	108+54.40	449.80	T/RAIL N.	108+54.40	449.81
T/RAIL S.	108+54.40	449.75	T/RAIL S.	108+54.40	449.76
T/TIE A	----	449.10	T/TIE E	----	449.09
T/TIE B	----	449.11	T/TIE F	----	449.10
T/TIE C	----	449.06	T/TIE G	----	449.06
T/TIE D	----	449.07	T/TIE H	----	449.09
			T/STEEL 1	----	448.33
			T/STEEL 2	----	448.34
			T/STEEL 3	----	448.33
			T/STEEL 4	----	448.34



BENT 24S (BREMEN STREET LEG ONLY)					
WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	108+83.50	449.37	T/RAIL N.	108+83.50	449.49
T/RAIL S.	108+83.50	449.33	T/RAIL S.	108+83.50	449.45
T/TIE A	----	448.65	T/TIE E	----	448.79
T/TIE B	----	448.67	T/TIE F	----	448.81
T/TIE C	----	448.64	T/TIE G	----	448.77
T/TIE D	----	448.65	T/TIE H	----	448.79
T/STEEL 1	----	447.97	T/STEEL 5	----	448.02
T/STEEL 2	----	447.96	T/STEEL 6	----	448.02
T/STEEL 3	----	447.99	T/STEEL 7	----	448.02
T/STEEL 4	----	447.99	T/STEEL 8	----	448.05



BREMEN STREET ABUTMENT					
WESTBOUND			EASTBOUND		
LOCATION	STATION	ELEVATION	LOCATION	STATION	ELEVATION
T/RAIL N.	109+43.40	448.45	T/RAIL N.	109+43.40	448.53
T/RAIL S.	109+43.40	448.41	T/RAIL S.	109+43.40	448.49
T/TIE A	----	447.79	T/TIE E	----	447.82
T/TIE B	----	447.80	T/TIE F	----	447.83
T/TIE C	----	447.75	T/TIE G	----	447.79
T/TIE D	----	447.77	T/TIE H	----	447.81
T/STEEL 1	----	447.12	T/CONC. 5	----	447.09
T/STEEL 2	----	447.13	T/CONC. 6	----	440.48
T/STEEL 3	----	447.11	T/CONC. 7	----	447.10
T/STEEL 4	----	447.11	T/CONC. 8	----	440.49



LEGEND

N/A = UNABLE TO GET AN ELEVATION AT THIS LOCATION

NOTE: TOP OF RAIL ELEVATIONS TAKEN NEAR C/L OF FLOORBEAM OR C/L OF BENT. TOP OF TIE ELEVATIONS TAKEN ON EITHER SIDE OF C/L OF FLOORBEAM OR C/L OF BENT

PRELIMINARY FOR REVIEW/EVALUATION

DESIGN NINE
ENGINEERING SERVICES FOR RAILROADS AND INDUSTRY
11166 TESSON FERRY ROAD
SUITE 100
ST. LOUIS MO, 63123-6966
(314) 729-7600

Drawn By:	JPG	Scale:	NONE
Checked By:	RSS	Sheet	19 of 20
Drawing:	11086-1	Date:	09/21/2011

DETAIL SHEET

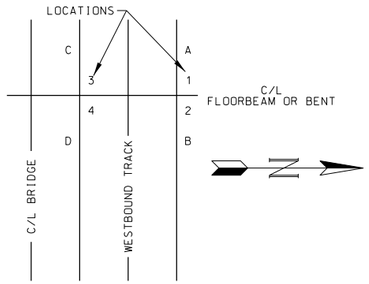
NO.	DATE	REVISION (THIS DRAWING IS INTENDED TO BE PLOTTED ON 11 X 17 INCH PAPER)	BY
1	11/07/11	REVISED STATIONING ON WB BREMEN STREET TRACK	JPG/RSS

PROPOSED TRACK CHANGES TO IMPROVE FOR AMTRAK ON TRRA SYSTEM IN ST. LOUIS, MISSOURI

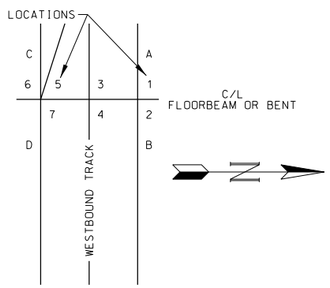
TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS

S:\20\TRRA\Merchants Bridge West Approach\Design\11086.dgn
jpg 11/7/2011 11:30:2 PM Sheet 19 - Detail Sheet 3

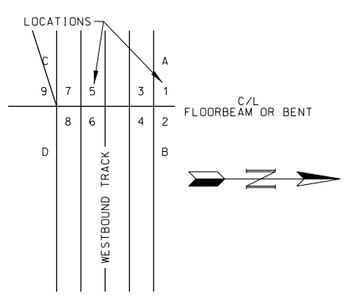
BENT 12 (MAY STREET LEG ONLY)		
WESTBOUND		
LOCATION	STATION	ELEVATION
T/RAIL N.	104+83.70	455.42
T/RAIL S.	104+83.70	455.42
T/TIE A	----	454.74
T/TIE B	----	454.74
T/TIE C	----	454.72
T/TIE D	----	454.75
T/STEEL 1	----	454.03
T/STEEL 2	----	454.02
T/STEEL 3	----	453.99
T/STEEL 4	----	454.04



BENT 13 (MAY STREET LEG ONLY)		
WESTBOUND		
LOCATION	STATION	ELEVATION
T/RAIL N.	105+13.40	454.97
T/RAIL S.	105+13.40	454.97
T/TIE A	----	454.27
T/TIE B	----	454.30
T/TIE C	----	454.27
T/TIE D	----	454.31
T/STEEL 1	----	453.56
T/STEEL 2	----	453.57
T/STEEL 3	----	453.59
T/STEEL 4	----	453.58
T/STEEL 5	----	453.56
T/STEEL 6	----	453.58
T/STEEL 7	----	453.58



BENT 14 (MAY STREET LEG ONLY)		
WESTBOUND		
LOCATION	STATION	ELEVATION
T/RAIL N.	105+41.60	454.50
T/RAIL S.	105+41.60	454.52
T/TIE A	----	453.81
T/TIE B	----	453.84
T/TIE C	----	453.82
T/TIE D	----	453.85
T/STEEL 1	----	453.09
T/STEEL 2	----	453.11
T/STEEL 3	----	453.10
T/STEEL 4	----	453.12
T/STEEL 5	----	453.13
T/STEEL 6	----	453.14
T/STEEL 7	----	453.12
T/STEEL 8	----	453.16
T/STEEL 9	----	453.13



BENT 15N (MAY STREET LEG ONLY)		
WESTBOUND		
LOCATION	STATION	ELEVATION
T/RAIL N.	105+81.10	453.88
T/RAIL S.	105+81.10	453.86
T/TIE A	----	453.21
T/TIE B	----	453.21
T/TIE C	----	453.17
T/TIE D	----	453.21
T/STEEL 1	----	452.51
T/STEEL 2	----	452.47
T/STEEL 3	----	452.42
T/STEEL 4	----	452.48
T/STEEL 5	----	452.49
T/STEEL 6	----	452.43
T/STEEL 7	----	N/A
T/STEEL 8	----	N/A

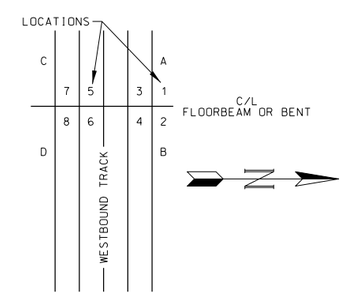
BENT 16N (MAY STREET LEG ONLY)		
WESTBOUND		
LOCATION	STATION	ELEVATION
T/RAIL N.	105+81.10	453.42
T/RAIL S.	105+81.10	453.44
T/TIE A	----	452.75
T/TIE B	----	452.75
T/TIE C	----	452.76
T/TIE D	----	452.75
T/STEEL 1	----	452.03
T/STEEL 2	----	452.03
T/STEEL 3	----	452.03
T/STEEL 4	----	452.03
T/STEEL 5	----	452.01
T/STEEL 6	----	452.04
T/STEEL 7	----	N/A
T/STEEL 8	----	N/A

BENT 17N (MAY STREET LEG ONLY)		
WESTBOUND		
LOCATION	STATION	ELEVATION
T/RAIL N.	106+37.00	453.03
T/RAIL S.	106+37.00	453.07
T/TIE A	----	452.34
T/TIE B	----	452.41
T/TIE C	----	452.37
T/TIE D	----	452.44
T/STEEL 1	----	451.61
T/STEEL 2	----	451.68
T/STEEL 3	----	451.59
T/STEEL 4	----	451.66
T/STEEL 5	----	451.64
T/STEEL 6	----	451.63
T/STEEL 7	----	N/A
T/STEEL 8	----	N/A

BENT 18N (MAY STREET LEG ONLY)		
WESTBOUND		
LOCATION	STATION	ELEVATION
T/RAIL N.	106+64.70	452.57
T/RAIL S.	106+64.70	452.65
T/TIE A	----	451.89
T/TIE B	----	451.94
T/TIE C	----	451.94
T/TIE D	----	451.97
T/STEEL 1	----	451.18
T/STEEL 2	----	451.19
T/STEEL 3	----	451.21
T/STEEL 4	----	451.23
T/STEEL 5	----	451.26
T/STEEL 6	----	451.25
T/STEEL 7	----	N/A
T/STEEL 8	----	N/A

BENT 19N (MAY STREET LEG ONLY)		
WESTBOUND		
LOCATION	STATION	ELEVATION
T/RAIL N.	106+92.80	452.20
T/RAIL S.	106+92.80	452.27
T/TIE A	----	451.54
T/TIE B	----	451.56
T/TIE C	----	451.57
T/TIE D	----	451.60
T/STEEL 1	----	450.82
T/STEEL 2	----	450.82
T/STEEL 3	----	450.82
T/STEEL 4	----	450.85
T/STEEL 5	----	450.86
T/STEEL 6	----	450.86
T/STEEL 7	----	N/A
T/STEEL 8	----	N/A

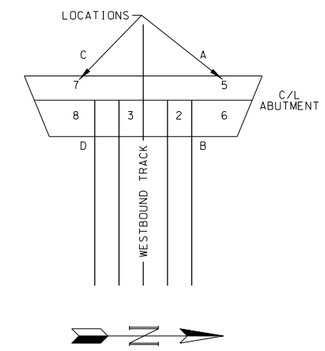
BENT 20N (MAY STREET LEG ONLY)		
WESTBOUND		
LOCATION	STATION	ELEVATION
T/RAIL N.	107+20.70	451.81
T/RAIL S.	107+20.70	451.88
T/TIE A	----	451.16
T/TIE B	----	451.19
T/TIE C	----	451.19
T/TIE D	----	451.21
T/STEEL 1	----	450.43
T/STEEL 2	----	450.46
T/STEEL 3	----	450.44
T/STEEL 4	----	450.48
T/STEEL 5	----	450.46
T/STEEL 6	----	450.46
T/STEEL 7	----	N/A
T/STEEL 8	----	N/A



BENT 21N (MAY STREET LEG ONLY)		
WESTBOUND		
LOCATION	STATION	ELEVATION
T/RAIL N.	107+48.70	451.35
T/RAIL S.	107+48.70	451.40
T/TIE A	----	450.69
T/TIE B	----	450.69
T/TIE C	----	450.71
T/TIE D	----	450.72
T/STEEL 1	----	449.96
T/STEEL 2	----	449.96
T/STEEL 3	----	449.92
T/STEEL 4	----	449.97
T/STEEL 5	----	450.01
T/STEEL 6	----	450.02
T/STEEL 7	----	N/A
T/STEEL 8	----	N/A

BENT 22N (MAY STREET LEG ONLY)		
WESTBOUND		
LOCATION	STATION	ELEVATION
T/RAIL N.	107+76.60	450.91
T/RAIL S.	107+76.60	450.99
T/TIE A	----	450.27
T/TIE B	----	450.26
T/TIE C	----	450.31
T/TIE D	----	450.30
T/STEEL 1	----	449.51
T/STEEL 2	----	449.55
T/STEEL 3	----	449.57
T/STEEL 4	----	449.59
T/STEEL 5	----	449.60
T/STEEL 6	----	449.60
T/STEEL 7	----	N/A
T/STEEL 8	----	N/A

MAY STREET ABUTMENT		
WESTBOUND		
LOCATION	STATION	ELEVATION
T/RAIL N.	108+10.80	450.22
T/RAIL S.	108+10.80	450.28
T/TIE A	----	449.50
T/TIE B	----	449.60
T/TIE C	----	449.60
T/TIE D	----	449.63
T/STEEL 1	----	448.88
T/STEEL 2	----	448.92
T/STEEL 3	----	449.01
T/STEEL 4	----	448.94
T/STEEL 5	----	448.91
T/STEEL 6	----	441.27
T/STEEL 7	----	448.98
T/STEEL 8	----	441.12



LEGEND

N/A = UNABLE TO GET AN ELEVATION AT THIS LOCATION

NOTE: TOP OF RAIL ELEVATIONS TAKEN NEAR C/L OF FLOORBEAM OR C/L OF BENT. TOP OF TIE ELEVATIONS TAKEN ON EITHER SIDE OF C/L OF FLOORBEAM OR C/L OF BENT

PRELIMINARY FOR REVIEW/EVALUATION

S:\2011\TRRA\Merchants Bridge West Approach\Design\11086-1.dgn
jpg 11/7/2011 11:31:12 PM Sheet 20 - Detail Sheet 4

DESIGN NINE
ENGINEERING SERVICES FOR RAILROADS AND INDUSTRY
11166 TESSON FERRY ROAD
SUITE 100
ST. LOUIS MO, 63123-6966
(314) 729-7600

Drawn By:	JPG	Scale:	NONE
Checked By:	RSS	Sheet	20 of 20
Drawing:	11086-1	Date:	09/21/2011

DETAIL SHEET

NO.	DATE	REVISION (THIS DRAWING IS INTENDED TO BE PLOTTED ON 11 X 17 INCH PAPER)	BY
1	11/07/11	REVISED STATIONING ON WB BREMEN STREET TRACK	JPG/RSS

PROPOSED TRACK CHANGES TO IMPROVE FOR AMTRAK ON TRRA SYSTEM IN ST. LOUIS, MISSOURI

TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS